1995

METROPOL EĞİTİM KURUMLARI

YÖS

YABANCI ÖĞRENCİ SINAVLARI
FOREIGN STUDENT EXAMINATIONS

GENEL YETENEK IQ 2

SORU BANKASI
QUESTION BANK

285 Konu Testi
Subject Tests

Test Sorusu 3074
Test Questions

Türkiye'de ve Dünyada!
In Turkey and Around the World!

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ÖNSÖZ

Değerli öğrenciler,

Metropol Eğitim Kurumları, 1995'den bugüne YÖS, SAT ve TÖMER sınavlarına hazırlanan öğrencilere kurs, yayın ve rehberlik hizmetleri sunan, Türkiye'de ve Dünyanın farklı ülkelerinde şube ve temsilcilikleri bulunan uluslararası bir eğitim kurumları zinciridir.

Kurumumuz, Türkiye üniversitelerinin gerçekleştirdikleri yurt dışından Öğrenci Kabul Sınavları ya da bilinen adıyla Yabancı Uyruklu Öğrenci Sınavlarına (YÖS) hazırlanan ve bu üniversitelerde yüksek öğrenim görmeyi hedefleyen yabancı uyruklu ve T.C. vatandaşı öğrencilere profesyonel olarak hizmet veren ilk ve tek eğitim kurumudur.

Türkiye'nin önde gelen üniversitelerinin düzenledikleri bu sınavlarda (YÖS), Temel Öğrenme Becerileri Testi ve Türkçe Yeterlilik Testi olmak üzere iki ayrı test yer almaktadır. Temel Öğrenme Becerileri Testleri sınavların değerlendirmelerinde ve üniversitelere kabul aşamalarında dikkate alınmakta olup yerleştirmeler bu testlerin sonuçlarına göre yapılmaktadır. Türkçe testleri ise, sınava katılan öğrencilerin Türkçe dil yeterliliklerini ölçmek için uygulanmakta olup, yerleştirme puanlarını etkilememektedir.

Yabancı Öğrenci Sınavlarında (YÖS) başarılı olabilmek ve üniversitede hedeflediğiniz bölümde okuyabilmek için öncelikle Temel Öğrenme Becerileri Testlerinde baraj olarak belirlenen puanları aşmanız ve daha yüksek puanlar almanız gerekmektedir.

Sınavlardaki Temel Öğrenme Becerileri Testlerinde Genel Yetenek (IQ), Matematik ve Geometri soruları yer almakta olup; bu soruları doğru yanıtlamanız sınavların başarı sıralamalarında öne çıkmanızı sağlayacaktır.

Türkiye'nin seçkin üniversitelerinde öğrenim görebilme şansını yakalayabilmek için YÖS hazırlık kurslarımıza katılmanızı ve yayınlarımızı hazırlamış olan, alanında uzman ve deneyimli öğretmenlerimizden destek almanızı öneriyoruz.

Tüm YÖS adaylarına başarılar dileriz!

PREFACE

Dear students,

Metropol Educational Institutions is a group of international educational institutions with branches and representatives in Turkey and different countries around the world, offering courses, publications and consultancy services to students studying for the YÖS, SAT and TÖMER exams since 1995.

Our institution is the first and the only educational institution that provides professional services to the international students and Turkish citizens preparing for the Foreign Students Acceptance Exams known as Foreign Students Exams (YÖS) and planning to continue their higher education at these universities in Turkey.

In these (YÖS) exams held by the renowned universities in Turkey, there are two separate tests; Basic Learning Skills Test and Turkish Language Proficiency Test. The Basic Learning Skills Test is taken into consideration in the evaluation processes of the exams and in the acceptance processes by the universities; the placements are performed according to the results of these tests. The Turkish Language Proficiency Tests, on the other hand, are intended to measure the Turkish language level of the students who take the exam and it does not affect the placement scores.

In order to be successful in the YÖS exams and to be able to enrol in the department in which you want to study at the university, you need to exceed the threshold score in the exam and get higher scores.

The Basic Learning Skills Tests include Intelligent Quotient (IQ), Mathematics and Geometry questions. You will be able to stand out in the rankings of the exam scores by answering these questions correctly.

To capture the opportunity to study at elite universities of Turkey, we recommend that you participate in our YÖS preparation courses and get support from our qualified and experienced teachers who have prepared our publications.

We wish great success to all YÖS candidates!

METROPOL EĞİTİM KURUMLARI
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BÖLÜM 01 CHAPTER

ŞİFRELER
PASSWORDS

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, eşitliğin diğer tarafındaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen harfleri, rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in the other side of the equivalence. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1. I. İSTANBUL = ✻ ★ ▲ ⦿ □ ▣ ● ■

II. SMYRNA = ?

A) ※□◈△●▣ B) ★※◈△□⦿ C) ★※◈▲□⦿
D) ★※◈○▲■ E) ★※□△▲■

2. I. EİNSTEİN = 23985239

II. PİSAGOR = ?

A) 4387190 B) 6382850 C) 1384760
D) 2386740 E) 9386740

3. I. ŞOSTAKOVİÇ → 7319543268

II. ÇAYKOVSKİ → ?

A) 805432146 B) 850431246 C) 850432146
D) 850423164 E) 854032146

4. I. AHESTE = △●✻▲□✻

II. ALFABE ≢ ?

A) △○↑△■✻ B) △★↓△■✻ C) △○×△✓✻
D) △◈■△★✻ E) △○→△●✻

5. I. MARJİNAL = 39215798

II. KARDİNAL ≢ ?

A) 09245798 B) 09265798 C) 49205798
D) 49265796 E) 69245798

6. I. KE5M24L = 3921578

II. 8M23EL1 = ?

A) L15K98M B) L85K38E C) L95E83K
D) L95E38L E) L95M38K

7. I. PİJAMA = KEDİLİ

II. PİRAYE = ?

A) KEDİMA B) KEMİRA C) KEÇİDU D) KESİLİ E) KEDİPİ

8. I. 34341221 → 95950110

II. 33112446 → ?

A) 00991552 B) 99001551 C) 99001557 D) 99110557 E) 99005116

9. I. □✓▲○●◊❄⊷ = ★×◎■△∞φψ

II. ●◊⊷↗⊠▲✿❄ = ?

A) △∞★ψ❢◎■φ B) △∞ψϖ♥◎△φ C) △∞ψ✧❢▼⊷ D) △∞ψ★△◎△φ E) △∞ψ◈♥◎▼φ

10. I. METROPOL → ■●♣❄★△★▲

II. MİTOLOJİ → ?

A) ■★♣❄▲❄□★ B) ■❄♣★▲★□❄ C) ■▣♣★▲★□▣ D) ■◈♣★▲❄□◎ E) ■★♣❄▲●□★

11. I. KAKTÜS = 545029

II. 13504982 = ?

A) BİKTASLÜ B) CBKTASLA C) LAKTİSLÜ D) DCKTASTÜ E) FİKTASLA

12. I. ABLUKA → 078350

II. DARBUKA → ?

A) 6057860 B) 9048350 C) 9037350 D) 4098350 E) 9047350

13. I. **AZERBAYCAN = ?**

A) 1894512673 B) 1792013415 C) 0452906718 D) 1267817919 E) 6792064265

14. I. **KARADENİZ ≢ ?**

A) 571763208 B) 46062198 C) 90205673 D) 24347895 E) 12524374

YANITLAR / ANSWERS

1	2	3	4	5	6	7
B	C	C	E	D	A	B
8	**9**	**10**	**11**	**12**	**13**	**14**
C	E	C	A	E	B	E

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
A F E	✿ ✪ ✻
F A E	✪ ✿ ✻
E F A	✻ ✿ ✪
F E A	✿ ✻ ✪
A E F	✻ ✪ ✿

⇒ **EFA = ?**

A) ✪ ✿ ✻ B) ✻ ✿ ✪ C) ✻ ✪ ✿ D) ✿ ✻ ✪ E) ✿ ✪ ✻

2.

I.	II.
K A P	● ✚ ✘
P A K	✚ ✘ ●
A K P	✚ ● ✘
P K A	● ✘ ✚
A P K	✘ ● ✚

⇒ **PKA = ?**

A) ● ✘ ✚ B) ✚ ✘ ● C) ● ✚ ✘ D) ✘ ● ✚ E) ✚ ● ✘

3.

I.	II.
U M O	■ ✪ ▲
M O U	✪ ■ ▲
O M U	▲ ✪ ■
M U O	■ ▲ ✪
O U M	✪ ▲ ■

⇒ **OMU = ?**

A) ✪ ▲ ■ B) ▲ ✪ ■ C) ■ ✪ ▲ D) ✪ ■ ▲ E) ■ ▲ ✪

4.

I.	II.
T I K	▲ ❑ ○
I K T	❑ ○ ▲
T K I	❑ ▲ ○
K I T	▲ ○ ❑
K T I	○ ❑ ▲

⇒ **TIK = ?**

A) ○ ❑ ▲ B) ❑ ▲ ○ C) ▲ ❑ ○ D) ❑ ○ ▲ E) ▲ ○ ❑

5.

I.	II.
❑ ☆ ○	8 2 1
❑ ○ ☆	8 8 1
○ ☆ ❑	2 1 8
❑ ❑ ☆	8 1 2
☆ ○ ❑	1 2 8

⇒ **○ ☆ ❑ = ?**

A) 821 B) 831 C) 128 D) 812 E) 218

6.

I.	II.
← → ↑	7 9 3
→ ↑ ↑	7 7 3
← ← →	9 9 3
← ↑ →	3 9 9
↑ ↑ →	7 3 9

⇒ **← ↑ → = ?**

A) 399 B) 739 C) 773 D) 793 E) 993

7.

I.	II.
▲ ■ ○	4 2 1
■ ○ ▲	1 2 4
○ ■ ▲	2 4 1
▲ ○ ■	2 1 4
○ ▲ ■	1 4 2

⇒ ○ ■ ▲ = ?

A) 421 B) 241 C) 214 D) 142 E) 124

8.

I.	II.
✇ ✌ ✆	8 7 2
✆ ✇ ✌	7 2 8
✌ ✆ ✇	8 2 7
✇ ✆ ✌	2 8 7
✌ ✇ ✆	7 8 2

⇒ ✌ ✇ ✆ = ?

A) 782 B) 872 C) 827 D) 728 E) 287

9.

I.	II.
9 2 4	B E N
9 5 1	S İ Z
7 5 1	K İ M
7 2 3	K E N
6 2 3	B İ Z

⇒ **BEN = ?**

A) 723 B) 951 C) 751 D) 623 E) 924

10.

I.	II.
8 9 4	B E L
3 9 1	S E L
4 2 1	K E L
8 2 1	B A L
3 2 1	K A S

⇒ **321 = ?**

A) KAS B) KEL C) BAL D) BEL E) SEL

11.

I.	II.
3 2 3	S E S
7 1 7	K E K
6 1 6	T A T
8 1 8	Y A Y
6 2 6	K A K

⇒ **SES = ?**

A) 616 B) 818 C) 717 D) 626 E) 323

12.

I.	II.
2 1 3	P A Y
8 5 3	Y A T
3 1 7	N E Y
3 5 8	Y E M
9 5 3	T A Y

⇒ **317 = ?**

A) TAY B) YEM C) YAT D) PAY E) NEY

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	C	E	E	D	B	A	C	D	E	B

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
K A S	3 5 9
T A S	5 9 2
A K S	2 5 3
S A T	9 5 2
T A K	3 5 2

⇒ **AKS = ?**

A) 253 B) 359 C) 352 D) 592 E) 952

2.

I.	II.
B A M	6 8 5
B İ M	6 7 3
B E N	6 1 5
B İ T	6 7 4
B O N	6 9 4

⇒ **BAM = ?**

A) 615 B) 673 C) 674 D) 685 E) 694

3.

I.	II.
S A K	6 1 8
A B İ	3 1 6
K A L	1 9 4
L İ S	9 1 8
B A L	8 4 3

⇒ **SAK = ?**

A) 194 B) 316 C) 618 D) 843 E) 918

4.

I.	II.
Z A G	2 3 1
Y E M	3 7 7
M A N	9 3 6
E G G	1 5 7
T E Z	6 5 8

⇒ **TEZ = ?**

A) 157 B) 231 C) 377 D) 658 E) 936

5.

I.	II.
S A P	9 1 4
K A S	4 7 4
A K A	1 9 1
A S A	4 1 3
S E S	1 4 1

⇒ **SES = ?**

A) 141 B) 191 C) 413 D) 474 E) 914

6.

I.	II.
D U L	2 4 1
Ç U L	0 5 3
B A K	0 4 1
Ç A K	6 5 3
U L U	5 3 5

⇒ **ÇAK = ?**

A) 041 B) 053 C) 241 D) 535 E) 653

7.

I.	II.
M E Y	6 3 6
N A Z	4 9 4
E K E	1 6 0
E F A	7 4 5
A L A	6 2 4

⇒ **EFA = ?**

A) 160 B) 494 C) 624 D) 636 E) 745

8.

I.	II.
B A Ş	D E R
K A Ş	M E R
T A Ş	L E R
Ş A Ş	L E M
K A T	R E R

⇒ **KAŞ = ?**

A) DER B) MER C) LER D) LEM E) RER

9.

I.	II.
P A S	7 4 7
P E S	2 3 7
S İ S	3 2 7
A P S	3 5 7
S E P	7 5 3

⇒ **APS = ?**

A) 237 B) 327 C) 357 D) 747 E) 753

10.

I.	II.
B U S	1 4 8
K A L	5 6 8
A N T	8 5 7
T A K	7 5 2
S E T	3 9 1

⇒ **BUS = ?**

A) 148 B) 391 C) 568 D) 752 E) 857

11.

I.	II.
H E R	6 8 9
M U N	1 8 4
T A S	2 7 4
D U T	5 3 1
N A R	0 3 6

⇒ **NAR = ?**

A) 036 B) 184 C) 274 D) 531 E) 689

12.

I.	II.
T A T	3 5 3
G A G	7 5 7
K E K	9 2 9
Y A Y	8 5 8
G E T	7 2 3

⇒ **YAY = ?**

A) 353 B) 723 C) 757 D) 858 E) 929

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	B	B	D	A	C	C	A	B	B	D

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
S I R	3 2 6
T E K	9 5 4
M İ R	8 5 4
S E K	9 7 6
T E Z	8 5 1

⇒ **TEZ = ?**

A) 326 B) 954 C) 854 D) 976 E) 851

2.

I.	II.
B A Y	3 4 2
A C E	7 5 3
Z E Y	6 5 9
H E C	4 3 5
N E Z	9 5 2

⇒ **ACE = ?**

A) 942 B) 753 C) 658 D) 435 E) 852

3.

I.	II.
P İ S	8 1 5
İ S O	5 3 0
İ T O	4 9 5
T E O	8 4 5
O P A	3 8 1

⇒ **OTE = ?**

A) 381 B) 495 C) 549 D) 530 E) 845

4.

I.	II.
T A T	5 1 7
D A T	6 1 8
K A T	4 1 7
Ç A T	8 1 7
P A D	7 1 7

⇒ **TAP = ?**

A) 714 B) 716 C) 717 D) 715 E) 718

5.

I.	II.
Z İ K	△ ■ ❑
Z E K	❑ ✳ △
K A Z	❑ ○ △
K İ Z	△ ✳ ❑
K O Z	❑ ● △

⇒ **●△✳ = ?**

A) AZİ B) AZO C) KAZ D) AKİ E) AZA

6.

I.	II.
△ ✪ ❑	B E L
❑ △ ✳	E L B
✳ ○ ●	Ö D E
● ✳ ○	D P Ö
❑ △ ✪	Ö D P

⇒ **BÖP = ?**

A) ❑△✪ B) ●△✪ C) ●❑✳ D) ✳○❑ E) ●❑✪

7.

I.	II.
✣ ❒ ✱	T İ P
▲ ✣ ✱	S İ P
▲ ❒ ✱	T K P
○ ❒ ✱	K İ P
○ ▲ ✱	S T P

⇒ **TKP** = ?

A) ▲ ❒ ✱ B) ✣ ❒ ✱ C) ○ ▲ ✱
D) ○ ❒ ✱ E) ▲ ✣ ✱

8.

I.	II.
❥ ♥ ♠	K O T
♠ ♥ ♠	L O R
✿ ♥ ❥	K O R
✖ ♥ ●	P O P
✿ ♥ ●	T O P

⇒ ✿ ♥ ❥ = ?

A) KOR B) TOP C) KOT
D) LOR E) POP

9.

I.	II.
8 2 2	● ■ ❑
2 6 8	❑ ● ■
2 8 6	❑ ■ ●
6 2 8	● □ ■
6 8 2	■ ● ●

⇒ ❑■● = ?

A) 826 B) 268 C) 862
D) 286 E) 682

10.

I.	II.
3 2 1	📍 👜 ☚
1 2 3	👜 ☚ 📍
2 3 1	☚ 📍 👜
2 1 3	☚ 👜 📍
3 1 2	👜 📍 ☚

⇒ 📍👜☚ = ?

A) 123 B) 213 C) 231
D) 312 E) 321

11.

I.	II.
✪ ▲ ❑	E T O
● ▲ ❑	O K E
▲ ❑ ✱	K E L
▲ ✪ ✱	E L F
✱ ● ▲	T E L

⇒ ● ▲ ❑ = ?

A) TEL B) ELF C) ETO
D) KEL E) OKE

12.

I.	II.
S E K	6 4 6
T E B	2 7 6
K O K	2 7 2
B O B	5 7 9
S E S	9 4 9

⇒ **TEB** = ?

A) 272 B) 276 C) 579
D) 646 E) 949

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	D	C	B	A	E	E	C	E	A	D	C

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
B A L	9 5 6
P E S	6 5 8
S U S	6 7 6
S E T	1 2 3
K E S	4 5 6

⇒ **BAL** = ?

A) 123 B) 456 C) 658 D) 676 E) 956

2.

I.	II.
S A P	3 2 6
D A T	7 2 8
A K S	2 5 3
A D T	2 7 8
D A K	7 2 5

⇒ **SAP** = ?

A) 728 B) 725 C) 326 D) 278 E) 253

3.

I.	II.
T E P	2 5 6
P E S	1 2 7
E T İ	6 2 5
K E L	3 2 6
E S P	2 3 8

⇒ **ETİ** = ?

A) 127 B) 238 C) 256 D) 326 E) 625

4.

I.	II.
Z A Z	9 2 6
L A Z	7 2 9
T A S	6 2 6
P A S	8 2 9
S A Z	5 2 6

⇒ **LAZ** = ?

A) 526 B) 626 C) 729 D) 829 E) 926

5.

I.	II.
3 8 2	✘ ✏ ☞
2 4 6	☞ ❢ ❑
6 5 3	✘ ☞ ▲
3 2 5	❢ ✏ ❑
4 8 6	❑ ▲ ✘

⇒ **3286 = ?**

A) ☞ ✘ ✏ ❑ B) ☞ ✘ ❢ ❑ C) ✘ ☞ ❢ ❑ D) ✘ ☞ ✏ ❑ E) ✘ ✏ ☞ ❑

6.

I.	II.
K Ö R	6 3 2
T O Z	9 4 8
Z I P	2 3 6
R O M	1 3 9
M O R	7 0 2

⇒ **1234 = ?**

A) KTZI B) TMOR C) ZORM D) TROI E) MORZ

7.

I.	II.
M A T	6 5 8
L İ G	8 2 4
G O L	3 1 9
K O L	6 7 0
K I Z	4 5 8

⇒ **MAKİ = ?**

A) 3162 B) 1326 C) 4132 D) 6210 E) 3678

8.

I.	II.
K T X	Ψ ∈ ∞
P U M	□ ω ■
M N P	■ ▲ □
X L K	● ★ △
Y E S	△ ○ ●

⇒ **YES = ?**

A) △○● B) ■▲□ C) ●★△ D) □∞■ E) Ψ∈∞

9.

I.	II.
A B İ	F İ L
E G O	U F O
B O T	E N İ
B İ G	F O N
G A M	N U F

⇒ **ABİ = ?**

A) FİL B) FON C) ENİ D) NUH E) UFO

10.

I.	II.
0 1 2	7 0 1
2 9 8	7 9 6
3 4 0	3 4 5
6 5 4	9 8 7
2 0 3	6 5 9

⇒ **340 = ?**

A) 345 B) 701 C) 796 D) 987 E) 659

11.

I.	II.
R U M	□ ■ X
R U S	○ ▲ Γ
P A S	□ ■ ●
K A S	↓ ■ ●
K A R	○ ▲ ●

⇒ **KAS = ?**

A) □■X B) □■● C) ↓■● D) ○▲● E) ○▲Γ

12.

I.	II.
P İ R	7 5 2
P İ M	7 6 2
P İ S	7 6 9
P E T	7 3 4
P A S	7 6 0

⇒ **SEPET = ?**

A) 72324 B) 23734 C) 23732 D) 37472 E) 29794

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	C	B	A	D	D	A	E	E	E	B	B

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

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1.

I.	II.
K A Ç A	■ ✣ ■ ❑
A Ç A K	❑ ■ ■ ✣
K A A Ç	✣ ▲ ❑ ■
A Ç I K	❑ ■ ✣ ■
Ç I K A	■ ✣ ▲ ❑

⇒ **KAÇAK = ?**

A) ■ ✣ ❑ ■ ▲ B) ■ ❑ ✣ ▲ ■ C) ■ ❑ ✣ ■ ✣ D) ❑ ■ ✣ ■ ❑ E) ■ ❑ ✣ ■ ❑

2.

I.	II.
M A Y A	↑ → ← →
Y A M A	↓ → ← →
M A Y O	← → ↑ ●
L A M A	← → ↓ →
M A L A	← → ↑ →

⇒ **MALAY = ?**

A) ← → ↓ → ↑ B) → ↓ ← ↑ ● C) → ← ↑ → ↓ D) ← → ↑ ↓ ● E) ● ← → ↑ →

3.

I.	II.
Ş E M A	✚ ■ △ ■
M A A Ş	● ○ ❑ ■
K A S A	▲ ○ ❑ ■
Ş A K A	● ■ ✚ ■
T E M A	❑ ■ ■ ●

⇒ **ŞAMAKA = ?**

A) ● ❑ ■ ❑ ▲ ■ B) ● ■ ❑ ▲ ■ ✚ C) ■ ✚ ▲ ■ ● ✚ D) ● ■ ❑ ■ ✚ ■ E) ○ ❑ ■ ✚ ▲ ●

4.

I.	II.
B E T A	← ↓ ◆ →
T E M A	↑ → ◆ →
M E T A	↑ ↓ ← →
B A M A	◆ ↓ ↗ →
M E S A	◆ ↓ ← →

⇒ **MATEM = ?**

A) ◆ ← → ↓ ◆ B) ↑ → ← ↓ ◆ C) ↓ → ↓ ◆ ↑ D) ◆ ↓ → ◆ ↓ E) ◆ → ← ↓ ◆

5.

I.	II.
M A V İ	● ○ ■ ❑
M A N A	■ ○ ✇ ○
V A N A	❑ ● ○ ✇
M A N İ	● ○ ✇ ❑
İ M A N	● ○ ✇ ○

⇒ **MANAV = ?**

A) ● ○ ■ ○ ✇ B) ● ○ ✇ ○ ■ C) ○ ● ■ ✇ ○ D) ■ ○ ✇ ○ ● E) ● ○ ■ ✇ ○

6.

I.	II.
N İ C E	+ x + x
N E N E	β x + x
S E N E	α x + x
K E N E	α x + ϑ
S E N T	+ − ÷ x

⇒ **SEKSEN = ?**

A) α x α β x + B) x α β α x + C) α x β α + x D) + x α β O x E) α x β α x +

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7.

I.	II.
2 4 6 7	○ ❑ ■ ▲
7 4 2 3	■ ▼ ✚ ❑
5 6 2 6	✎ ○ ▼ ▲
8 7 5 3	■ ❑ ● ○
2 5 9 4	▼ ● ■ ●

⇒ **2764 = ?**

A) ■ ❑ ○ ● B) ■ ● ○ ❑ C) ❑ ○ ● ❑
D) ❑ ○ ● ■ E) ■ ○ ● ❑

8.

I.	II.
T K X N	4 8 5 6
L N T M	2 5 3 4
P L N X	1 8 9 2
M X N P	3 1 8 5
K X Q L	6 2 5 8

⇒ **KQNT = ?**

A) 1359 B) 3158 C) 1953
D) 1593 E) 3915

9.

I.	II.
9 4 6 7	△ ❑ ● ▲
7 3 6 9	✱ ■ ○ ●
8 3 4 5	✖ ❑ ■ ✚
5 6 8 1	○ ▲ ❑ ✱
2 4 1 3	✚ ▲ ■ ✖

⇒ **2764 = ?**

A) △ ✚ ■ ❑ B) ✚ ❑ ✖ ✱ C) ▲ △ ✚ ❑
D) △ ■ ✪ ✚ E) ▲ ○ ✚ ●

10.

I.	II.
5 4 6 7	🏆 ⚓ 📚 ⊘
7 3 2 1	ϟ 📻 📟 🎹
1 5 4 9	📟 🏂 🎹 🏆
9 8 5 6	ϟ 🏂 🎹 ⚓
9 4 6 3	⊘ 📟 🏂 ϟ

⇒ ⚓ 🏂 🎹 ϟ = ?

A) 3496 B) 4357 C) 3491
D) 3469 E) 1943

11.

I.	II.
↔ ▲ ■ ●	5 9 6 2
→ ● ○ ❒	9 4 3 1
↔ ■ ▲ △	1 2 3 4
△ ▲ → ●	5 6 9 8
▲ ❒ ○ →	8 9 1 2

⇒ ● ○ ↔ → = ?

A) 2531 B) 3251 C) 2351
D) 1256 E) 6351

12.

I.	II.
3 5 0 7	X Y B P
5 0 7 3	P X Y B
7 5 3 0	Y X P B
0 7 3 5	Y P B X
7 0 5 3	B P X Y

⇒ **XYBP = ?**

A) 3507 B) 5073 C) 7530
D) 0735 E) 7053

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	A	D	E	B	E	E	C	A	D	C	D

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

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1.

I.	II.
D E N K	8 1 9 3
K E N T	5 8 2 1
A N I T	3 9 8 1
T E P E	1 9 6 9
N T E K	7 9 8 3

⇒ **ANIT = ?**

A) 7983
B) 1969
C) 5821
D) 8193
E) 3981

2.

I.	II.
S E R T	3 2 5 6
M İ S K	5 8 1 7
K E T L	1 4 6 9
L O M R	1 8 3 5
S İ L M	7 4 9 3

⇒ **SİLM = ?**

A) 7493
B) 1835
C) 3256
D) 1469
E) 5817

3.

I.	II.
E M R E	3 7 4 2
T E R K	2 5 4 9
M İ R T	5 4 2 5
E R T E	5 3 4 5
S İ N E	6 7 8 5

⇒ **MİRT = ?**

A) 6785
B) 3742
C) 2549
D) 5425
E) 5345

4.

I.	II.
E L E K	5 4 0 3
T E L E	4 0 4 9
E S E N	8 4 0 4
V E L İ	2 3 5 4
N İ V E	4 7 4 2

⇒ **ESEN = ?**

A) 5403
B) 4742
C) 2354
D) 3404
E) 4049

5.

I.	II.
0 8 7 4	❑ ○ △ ■
4 5 0 7	★ ▲ ❑ ●
5 4 8 2	● △ ▲ ○
2 6 4 5	○ ❑ ● ▲
3 7 5 0	■ ☆ ○ ❑

⇒ **3750 = ?**

A) ●△▲○
B) ○❑●▲
C) ■☆○❑
D) ❑○△■
E) ★▲❑●

6.

I.	II.
1 8 2 7	✖ ↑ ← ↓
2 9 8 1	← ✖ ↑ ⊕
7 1 3 2	↓ → ✚ ↑
3 7 1 4	↑ ✚ ↓ ✖
4 5 9 8	⊕ ⊗ → ✚

⇒ **3714 = ?**

A) ↑✚↓✖
B) ←✖↑⊕
C) ↓→✚↑
D) ✖↑←↓
E) ⊕⊗→✚

7.

I.	II.
0 3 9 6	✦ ○ ■ ✸
1 7 3 0	○ ❑ ▲ ✸
6 9 1 4	△ ▼ ❑ ○
4 0 2 6	❑ ○ ▲ ✦
3 0 9 4	✸ ▲ △ ✦

⇒ **1730 = ?**

A) ○❑▲✸ B) ✸▲△✦ C) △▼❑○

D) ✦❑○✸ E) ❑○▲✦

8.

I.	II.
1 3 5 7	❑ ■ ○ ▲
7 5 9 1	▲ ✳ ● △
3 9 7 8	✳ ❑ △ ○
8 1 6 5	○ △ ■ ✳
5 6 1 3	△ ● ✳ ❑

⇒ **3978 = ?**

A) ○△■✳ B) ❑■○▲ C) ✳❑△○

D) △●✳❑ E) ▲✳●△

9.

I.	II.
✳ + x −	❑ ✳ ● ○
x ✳ ÷ +	■ ○ ● ▲
+ − ✳ ÷	● ❑ △ ✳
− ↑ + x	✳ ■ ❑ △
↑ ÷ ✳ ↓	△ ● ○ ❑

⇒ **−↑+x = ?**

A) △●○❑ B) ❑✳●○ C) ●❑△✳

D) ■○●▲ E) ✳■❑△

10.

I.	II.
✖ ○ ✦ ✚	S P K B
✦ ✚ ○ ✧	M L T S
✧ ⊕ ✖ ❑	K M L T
❑ △ ✧ ✖	B A S K
✖ ✦ ✚ ○	K T M L

⇒ **✧ ⊕ ✖ ❑ = ?**

A) BASK B) KTML C) MLTS

D) SPKB E) KMLT

11.

I.	II.
Ç İ F T	7 2 6 8
T A H Ç	6 4 1 7
L E F T	2 1 7 9
A H E F	9 6 4 3
F L A Ş	3 5 7 9

⇒ **FLAŞ = ?**

A) 9643 B) 3579 C) 6417

D) 2179 E) 7268

12.

I.	II.
S E R T	8 6 1 7
R U S A	5 3 7 4
U S T A	6 7 4 9
M E S T	1 6 7 9
B U R S	7 3 1 4

⇒ **BURS = ?**

A) 1679 B) 6749 C) 5374

D) 7314 E) 8617

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	B	B	E	B	C	B	E	D	E	E

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1.

I.	II.
2 5 7 6	R T V A
9 2 3 1	V T A K
1 8 9 6	R S M V
3 2 1 7	T L K M
9 8 6 3	A S R M

⇒ **RATAK = ?**

A) 92127
B) 91217
C) 79212
D) 81237
E) 93237

2.

I.	II.
M O D A	7 5 6 5
D O G İ	8 4 7 5
G İ M A	7 1 3 5
M A Z A	5 6 4 2
A Z İ K	3 1 8 4

⇒ **MAZA = ?**

A) 7565
B) 8475
C) 7135
D) 5642
E) 3184

3.

I.	II.
Z E K İ	▽ ▲ ❑ ▼
T A K I	❑ ▲ ● ▲
S A R I	✳ ▲ ❑ ▲
K E Ç E	✳ ■ ❑ ⊠
T E K E	▭ ■ ▯ ⊠

⇒ **ÇERT = ?**

A) ❑●⊠✳
B) ●▯▲✳
C) ●▲▯✳
D) ⊠✳▽▼
E) ▯❑▽●

4.

I.	II.
K E Z O	4 0 3 1
N A Z O	9 6 4 1
K E T O	2 5 3 1
D E N O	2 5 7 1
P İ N O	8 5 4 1

⇒ **KETO = ?**

A) 9641
B) 2531
C) 8541
D) 2571
E) 4031

5.

I.	II.
⊗ ↑ ↓ ○	7 4 1 2
↓ ✖ ↓ ↻	9 1 3 2
↑ ↓ ○ ⊗	3 4 3 0
⇉ ✖ ↑ ○	2 7 4 0
○ ⇉ ✖ ↻	1 3 2 9

⇒ ⊗✖⇉○ **= ?**

A) 9132
B) 7422
C) 2740
D) 1329
E) 9472

6.

I.	II.
3 5 7 1	■ ▼ ✿ △
4 3 0 0	△ ▼ ✿ ◆
7 4 3 0	▲ ☆ ■ ◆
3 8 1 6	■ ● ▲ ✿
6 8 1 0	☆ ■ ◆ ◆

⇒ **6810 = ?**

A) △■◆☆
B) ▲● △◆
C) △▼✿◆
D) △■✿◆
E) △▼✿●

7.

I.	II.
● △ ✳ ▲	1 2 9 2
▲ ● △ ○	8 9 3 9
○ ● ✳ ●	9 7 3 5
✳ ● ○ ❑	3 9 8 2
■ ❑ ● ❑	5 9 7 8

⇒ ✳●○❑ = ?

A) 1292 B) 8939 C) 5978
D) 3982 E) 9735

8.

I.	II.
↑ → ❑ ↓	L Z K L
❑ ↑ ↓ △	H K Z L
○ ❑ △ →	A L K T
● ↑ ↓ ❑	P A T K
→ △ ❑ →	K A T Z

⇒ △↓↑→ = ?

A) HATK B) ZTAL C) ALHT
D) ATKH E) ZATL

9.

I.	II.
C E Z M	5 4 3 1
K E Z M	6 7 3 5
E Z İ M	7 3 1 5
A Z İ M	8 7 3 5
M A Z İ	4 3 1 5

⇒ **MAZİ** = ?

A) 5431 B) 6735 C) 7315
D) 8735 E) 4315

10.

I.	II.
1 5 7 9	● ▲ ✚ ✳
3 9 7 5	✪ ✳ △ ❑
4 6 8 2	✪ ■ ❑ ✳
2 8 6 9	■ ✚ ▲ ●
3 4 5 9	○ ❑ △ ✳

⇒ **2861** = ?

A) ❑ △✳1 B) ●✚▲○ C) △✪✚○
D) ●▲✚○ E) ✪■❑✳

11.

I.	II.
C A K I	■ △ ✪ △
I R A K	○ △ ❑ ✲
İ R A N	▲ ✪ △ ■
N A R A	✲ ✪ △ ❑
K İ R A	❑ ▲ ✪ △

⇒ **KİRA** = ?

A) ■△✪△ B) ❑△✪△ C) ✳✪△❑
D) ○△❑✳ E) ❑▲✪△

12.

I.	II.
D O S T	5 1 3 4
P A S T	7 1 3 4
K O S T	5 2 3 4
H O S T	8 1 3 4
K A S T	9 2 3 4

⇒ **PAST** = ?

A) 5134 B) 7134 C) 5234
D) 8134 E) 9234

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	A	C	D	E	C	D	B	A	D	E	E

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1.

I.	II.
1 8 2 4	C A D B
4 1 8 2	E D A F
2 6 3 4	A D B C
6 8 1 5	F E A B
5 6 1 2	B E G C

⇒ **4182** = ?

A) ADBC B) EDAF C) FEAB D) BEGC E) CADB

2.

I.	II.
8 2 7 6	T F K A
2 7 8 6	F A K T
6 2 8 6	F K T A
2 6 7 8	T A T F
8 6 8 2	A F T A

⇒ **6286** = ?

A) FAKT B) TATF C) FKTA D) TFKA E) AFTA

3.

I.	II.
A T K B	7 8 1 9
B A K T	1 7 8 9
A K B T	9 7 8 1
B K A T	1 8 7 9
T A K B	7 9 8 1

⇒ **BAKT** = ?

A) 1789 B) 1879 C) 9781 D) 7981 E) 7819

4.

I.	II.
T R F K	7 1 9 3
R F K T	7 9 3 1
F R K T	3 9 1 7
T K R F	7 3 1 9
T F K R	9 3 1 7

⇒ **TRFK** = ?

A) 9317 B) 3917 C) 7319 D) 7931 E) 7193

5.

I.	II.
S R A L	7 2 8 4
L A R S	2 8 7 4
R A L S	7 8 2 4
L R A S	4 2 8 7
L S A R	7 4 8 2

⇒ **LRAS** = ?

A) 2874 B) 7824 C) 7482 D) 7284 E) 4287

6.

I.	II.
C V O X	❂ ✿ ❏ ●
G F O X	■ ❂ ● ❏
T S O X	✿ △ ● ❏
L C O X	△ ✳ ● ❏
F L X O	☆ ▼ ● ❏

⇒ **TSOX** = ?

A) △✳●❏ B) ☆▼●❏ C) ■❂●❏ D) ❂✿❏● E) ✿△●❏

7.

I.	II.
T E R K	8 4 8 6
R E S T	1 5 1 6
E Z E P	4 1 3 9
P A R A	6 8 4 8
A R A P	9 1 4 7

⇒ **REST** = ?

A) 8486 B) 6848 C) 1516 D) 4139 E) 9147

8.

I.	II.
E R E N	9 3 6 3
T R E N	4 3 6 7
G E N Ç	1 3 6 9
D E N K	3 5 3 6
Ç E N E	2 5 3 6

⇒ **DENK** = ?

A) 1369 B) 2536 C) 4367 D) 9363 E) 3536

9.

I.	II.
T A K I	△ ❑ ✳ ➚
A K I N	▲ ➘ ○ ●
O N E M	➘ ○ ● ▲
M I A T	❑ ✳ ➚ ➘
N E M O	● ➚ ❑ △

⇒ **ONEM** = ?

A) ❑✳➚➘ B) ➘○●▲ C) △❑✳➚ D) ●➚❑△ E) ▲➘○●

10.

I.	II.
▲ ☞ ✔ ➦	U C H B
✐ ✔ ♠ ✘	M T C D
✻ ▲ ❢ ✘	U T C V
✐ ☞ ✔ ❢	L M H C
✻ ▲ ♠ ✔	L M V B

⇒ ▲✔♠❢✐ = ?

A) MHCUV B) UCHVU C) CHMUV D) MCHVU E) DUVMC

11.

I.	II.
2 5 7 6	➦ ☞ ▲ ✔
5 7 9 3	➦ ❑ ▲ ❢
2 1 7 9	☞ ▲ ❢ ✘
6 2 3 9	☞ ✔ ♣ ❑
5 6 8 1	✔ ➦ ✘ ❢

⇒ ➦✔▲❑❢ = ?

A) 26719 B) 62719 C) 27619 D) 96218 E) 27613

12.

I.	II.
△ ○ ○ ✪	G A S P
△ ▲ ▲ ❑	H O O K
● ▲ ✳ ❑	H A A P
❑ ▲ ✳ ▲	K A S A
✪ ▲ ✳ ▲	P A S A

⇒ **GASK** = ?

A) ●▲✳❑ B) ●▲❑✪ C) ▲●❑✪ D) ❑▲✳✪ E) ●▲✳✪

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	E	A	D	D	B	D	C	E	D	A	E

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

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1.

I.	II.
V E R E N	8 5 4 3 2
S İ N İ R	9 3 6 3 2
Y E M İ R	1 5 2 5 6
K E M İ R	6 5 8 3 2
N E Y İ R	7 5 4 3 2

⇒ **NEYİR = ?**

A) 93632 B) 85432 C) 15256 D) 75432 E) 65832

2.

I.	II.
K E M E R	7 3 6 3 7
R O B O T	1 9 4 9 5
K E L E K	7 3 2 3 1
T U R B O	7 3 6 5 3
K E L T E	5 8 1 4 9

⇒ **KELTE = ?**

A) 73637 B) 73231 C) 19495 D) 58149 E) 73653

3.

I.	II.
T A L E P	0 4 7 6 9
P E N T İ	8 9 7 3 1
İ L H A N	3 4 2 9 8
T E N R İ	3 9 7 5 1
H A N C E	1 2 0 4 7

⇒ **İLHAN = ?**

A) 89731 B) 12047 C) 04769 D) 34298 E) 39751

4.

I.	II.
T E R L İ	4 1 0 7 2
L E Y H A	0 1 6 2 5
Y E S B A	9 1 5 6 8
B E R İ L	6 1 4 3 2
S E L A R	7 1 5 8 6

⇒ **SELAR = ?**

A) 41072 B) 61432 C) 71586 D) 91568 E) 01625

5.

I.	II.
T E R A S	8 7 4 3 1
S E Y R E	4 7 6 8 7
R E S T A	9 1 5 7 3
Y A R E T	6 1 8 7 3
H A K E T	3 7 8 1 4

⇒ **TERAS = ?**

A) 87431 B) 47687 C) 37814 D) 91573 E) 61873

6.

I.	II.
G A Z Z E	3 0 8 8 6
T İ Y Y E	5 6 1 1 2
K İ L L E	1 2 9 9 6
S E G G A	8 6 5 5 2
Y E S S A	4 0 7 7 6

⇒ **KİLLE = ?**

A) 12996 B) 86552 C) 40776 D) 30886 E) 56112

7.

I.	II.
Ş E K İ L	6 5 0 4 9
İ Ş L E M	5 1 7 9 6
E M L A K	1 9 2 5 7
M İ H T E	4 3 1 9 8
T A Ş E P	9 6 7 3 2

⇒ **EMLAK = ?**

A) 19257 B) 96732 C) 51796 D) 43198 E) 65049

8.

I.	II.
○ ■ ✳ ★ △	4 9 2 0 8
△ ✳ ★ ▼ ▽	2 7 6 5 9
● △ ○ ▽ ❑	1 5 8 7 6
❑ ● ▼ ✳ ▲	8 4 3 6 1
▲ ★ ❑ ■ ✳	9 6 5 3 0

⇒ ●△○▽❑ = ?

A) 49208 B) 15876 C) 27659 D) 96530 E) 84361

9.

I.	II.
✚ ↑ ○ ✳ →	1 2 9 8 3
↓ → ✳ – ❑	4 9 7 1 8
← ❑ ↑ △ ○	5 6 2 7 9
○ ↓ ✚ ← △	4 3 8 0 6
↓ ○ △ ✚ ✳	9 4 1 5 7

⇒ ↓→✳–❑ = ?

A) 94157 B) 49718 C) 12983 D) 56279 E) 43806

10.

I.	II.
○ ✳ → ◇ △	4 8 1 7 9
❑ ◇ ✳ ● ○	6 3 2 9 4
△ ◆ ← ○ ❑	1 9 6 3 2
✳ ○ △ ◆ ←	7 4 9 1 5
● ❑ ○ ✳ →	9 1 5 8 6

⇒ ❑◇✳● ○ = ?

A) 74915 B) 63294 C) 91586 D) 48179 E) 19632

11.

I.	II.
❑ ⊙ ● ✳ ⊗	8 5 2 1 0
⊕ ⊗ ❑ △ ✳	4 2 3 7 6
△ ■ ▲ ○ ⊕	2 4 9 0 5
● ✳ ⊗ ❑ ⊙	9 0 5 2 4
⊙ ❑ ○ ■ ▲	1 7 6 3 8

⇒ ⊕⊗❑△ ✳ = ?

A) 90524 B) 17638 C) 85210 D) 24905 E) 42376

12.

I.	II.
B E H G E	1 2 3 4 2
C İ Y B A	5 6 9 1 0
F İ B E Y	8 6 1 2 9
H A C İ Y	3 0 5 6 9
E H G İ Y	2 3 4 6 9

⇒ **EHGİY = ?**

A) 12342 B) 56910 C) 86129 D) 30569 E) 23469

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	E	B	E	C	C	B	A	E	D	C	E

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In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
3 4 8 6 5	S V T B S
2 7 9 6 2	K N V T S
4 5 9 8 2	N K L B A
4 3 7 9 2	K A T L S
1 2 3 4 5	U S N K A

⇒ **STVLA = ?**

A) 29785 B) 69827 C) 28756 D) 29865 E) 29756

2.

I.	II.
1 5 8 4 3	T M E L T
2 3 6 1 7	S B T A K
2 8 7 1 3	E R T A M
6 0 7 1 4	E M S A T
7 3 2 5 7	A L R K M

⇒ **23617 = ?**

A) ERTAM B) SBTAK C) TMELT D) EMSAT E) ALRKM

3.

I.	II.
2 7 6 5 9	M S T A B
9 8 6 2 1	E R L S M
1 2 4 3 7	E S M A B
9 2 1 3 7	L K M S A
6 5 1 2 3	S B L K E

⇒ **MSAKB = ?**

A) 13475 B) 12357 C) 19892 D) 21357 E) 12347

4.

I.	II.
8 2 9 6 5	S L A T K
5 4 3 2 1	E M K A L
1 2 4 3 7	E T M R S
8 9 1 3 4	T K B R S
2 1 7 6 5	K T L A B

⇒ **49321 = ?**

A) LMATK B) MLATK C) MLKAL D) SKALM E) KALML

5.

I.	II.
2 7 6 5 9	L B A R E
9 1 2 3 5	A E B L M
5 6 2 8 7	B A T S K
9 1 4 7 6	M T K E B
6 2 1 3 4	M T A S L

⇒ **BLMKS = ?**

A) 65419 B) 64982 C) 63493 D) 65943 E) 64943

6.

I.	II.
2 7 6 5 9	S B E M R
9 8 2 7 6	L S T K L
1 2 4 3 1	E M R L T
8 2 4 3 7	A S T K B
6 5 9 1 4	R A S B E

⇒ **21975 = ?**

A) SRLBM B) SLRML C) SLRBM D) EMRAS E) SARMB

7.

I.	II.
8 2 5 3 2	M E S T L
2 1 4 7 6	K S A L S
4 9 2 1 3	L S M B R
3 2 4 7 6	S T M B R
6 3 5 6 7	R L A R B

⇒ **MTSRL = ?**

A) 43765 B) 41263 C) 41236 D) 14263 E) 91467

8.

I.	II.
2 7 6 5 4	M L B A T
4 3 8 6 5	L E S T A
5 6 7 9 4	A B R S T
1 2 3 4 5	T L A E K
5 2 4 7 9	T S E K A

⇒ **32176 = ?**

A) BMESN B) EABMS C) LESRA D) KTLBA E) BLMES

9.

I.	II.
2 7 9 6 5	B A E M R
4 7 6 5 2	A R K U S
8 2 4 1 7	M U S A B
9 6 5 3 1	E R U S A
1 6 5 2 8	K U S L M

⇒ **MARAS = ?**

A) 12786 B) 34127 C)12725 D) 75689 E) 12735

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10.

I.	II.
8 2 4 6 7	U E R M L
3 2 1 9 8	S E A K L
3 2 1 9 7	U K E A R
6 7 5 3 2	S E A K U
8 9 2 1 4	M L B S E

⇒ **82176 = ?**

A) UEAML B) UEALM C) UMAEU D) KUEAM E) MUKAL

11.

I.	II.
4 2 7 6 5	C A L B M
5 3 6 4 7	M B K E A
9 5 3 2 4	A L E M K
8 4 3 7 6	R U L U C
8 0 3 0 9	R M L K E

⇒ **ABLAM = ?**

A) 54382 B) 23297 C)54352 D) 52354 E) 25430

12.

I.	II.
2 8 0 7 1	K B C M A
1 6 0 9 2	A B R M E
3 4 0 8 5	E L R C A
5 6 7 9 1	M E U A S
9 2 3 1 4	U S R L K

⇒ **28761 = ?**

A) CELBS B) ELCBA C) MALCB D) ELCAB E) ELAEC

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	D	B	A	D	C	B	E	C	B	D	B

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1.

I.	II.
2 5 7 6 8	❑ ✚ ✖ ✍ ❍
9 6 7 5 3	✡ ✚ ❍ ✖ ✐
3 2 4 7 6	✎ ✖ ❍ ✚ ❑
8 6 5 4 7	✐ ✎ ✍ ❍ ✚
2 1 8 6 7	✎ ✳ ❑ ✚ ❍

⇒ **24581 = ?**

A) ✎ ✍ ✖ ❑ ✚
B) ✎ ✖ ✍ ✳ ❑
C) ✎ ✍ ✖ ❑ ✳
D) ✖ ✐ ✳ ✍ ❑
E) ✖ ✎ ✍ ❑ ✳

2.

I.	II.
4 3 0 5 6	▲ ❑ ➤ ✚ ❤
6 2 1 8 7	❁ ❍ ▲ ❑ ✚
2 1 4 3 5	➽ ❁ ❍ ➾ ✖
7 3 2 4 5	❤ ❁ ❍ ➾ ➽
7 2 1 8 9	➽ ❑ ❁ ▲ ✚

⇒ ▲ ❑ ➤ ✚ ❤ = ?

A) 43056
B) 73245
C) 21435
D) 72189
E) 62187

3.

I.	II.
8 2 1 9 3	▲ ✏ ❑ ✔ ➡
7 2 1 8 6	✚ ✏ ➶ ✗ ➡
6 5 3 5 1	✔ ✏ ➶ ✗ ❑
9 2 3 5 6	➡ ✗ ➶ ✗ ❑
8 2 3 5 1	✔ ✏ ❑ ✚ ➶

⇒ **12378 = ?**

A) ❑ ✏ ➶ ▲ ✔
B) ✏ ❑ ➶ ▲ ✔
C) ❑ ✏ ▲ ➶ ✔
D) ✔ ✗ ✚ ✏ ❑
E) ✔ ➶ ▲ ✏ ❑

4.

I.	II.
8 2 1 3 4	❍ ⇛ ➶ ❑ ✏
4 2 6 7 8	❍ ✚ ❑ ➶ ▲
8 9 1 3 4	✔ ⇛ ❍ ✚ ✖
4 3 7 6 9	✏ ⇛ ✔ ✚ ❍
1 2 4 3 5	✏ ▲ ✔ ✚ ❍

⇒ ❍ ▲ ➶ ✚ ⇛ = ?

A) 53276
B) 49632
C) 43265
D) 49623
E) 94532

5.

I.	II.
8 7 9 2 1	➡ ▲ ✗ ❋ ✔
1 2 7 9 3	➡ ❍ ❑ ▲ ❋
8 2 0 1 4	✔ ▲ ❂ ❋ ❑
4 2 3 1 9	❋ ▲ ❍ ❑ ❂
9 6 0 2 8	❑ ✚ ✗ ▲ ➡

⇒ **82314 = ?**

A) ➡ ▲ ❂ ❋ ✔
B) ▲ ❂ ❋ ✔ ❍
C) ❍ ▲ ❂ ❋ ✔
D) ➡ ❂ ❋ ✔ ▲
E) ✔ ▲ ❂ ❋ ❍

6.

I.	II.
2 3 1 4 9	✔ ✚ ➔ ☞ ❍
9 2 3 1 5	✚ ☞ ❍ ➔ ✔
5 2 4 7 8	▲ ✚ ➔ ✗ ➶
8 9 7 1 4	✔ ✚ ☞ ❍ ▲
9 2 4 3 1	➶ ✔ ✗ ❍ ➔

⇒ ☞ ✚ ✗ ➔ ➶ = ?

A) 27481
B) 32847
C) 32478
D) 32748
E) 24817

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7.

I.	II.
9 2 1 4 8	▲ ☞ ✗ ✚ ➠
3 1 7 6 8	✔ ○ ❑ ➤ ✚
5 2 1 2 3	✔ ✗ ○ ❑ ➠
3 7 6 5 4	✗ ☞ ○ ➠ ▲
1 2 7 8 9	➤ ☞ ✗ ☞ ✔

⇒ **14763 = ?**

A) ✗ ✚ ○ ❑ ✗
B) ✗ ✚ ○ ❑ ✔
C) ✔ ○ ❑ ➠ ➤
D) ➠ ○ ✚ ✗ ✔
E) ✗ ✚ ○ ✔ ❑

8.

I.	II.
9 1 4 2 8	✗ ▲ ☞ ○ ✚
4 1 3 5 6	▲ ✤ ☞ ○ ✣
6 9 3 8 1	✣ ✤ ▲ ○ ✔
1 2 3 5 9	✚ ✣ ☞ ✔ ▲
9 2 1 5 8	✣ ▲ ✗ ✤ ✔

⇒ **✗ ▲ ☞ ○ ✚ = ?**

A) 91428
B) 92158
C) 41356
D) 69381
E) 12359

9.

I.	II.
9 6 2 1 4	✗ ▲ ✚ ○ ✔
4 2 3 5 6	○ ➠ ➶ ✗ ❑
6 8 9 2 1	❑ ➶ ☞ ▲ ✚
1 5 6 7 0	➠ ✚ ➶ ✗ ❑
7 9 2 1 4	✚ ❆ ➠ ➶ ✗

⇒ **82417 = ?**

A) ❆ ➶ ❑ ✗ ○
B) ✗ ○ ❆ ➶ ☞
C) ☞ ❆ ➶ ❑ ○
D) ❆ ➶ ➠ ❑ ✗
E) ❆ ❑ ➶ ✗ ○

10.

I.	II.
2 8 6 7 1	➡ ➳ ▲ ❋ ☞
1 4 5 6 9	▲ ✗ ○ ➡ ❑
9 2 0 1 5	○ ▲ ✗ ☞ ➳
5 1 4 8 2	➳ ☞ ➡ ✚ ▲
6 2 1 3 8	❑ ➳ ✔ ▲ ○

⇒ **➡ ➳ ○ ☞ ❑ = ?**

A) 62543
B) 26579
C) 92135
D) 62859
E) 62589

11.

I.	II.
1 2 3 6 7	○ ❑ ▲ ☞ ✚
5 2 3 6 7	❑ ✗ ✔ ☞ ○
7 3 8 9 8	○ ☞ ➡ ✗ ❑
7 6 5 2 1	✔ ☞ ➡ ✗ ❑
1 7 8 2 4	❑ ➡ ▲ ✣ ▲

⇒ **74356 = ?**

A) ✚ ✗ ❑ ☞ ✚
B) ❑ ✚ ➡ ✔ ✗
C) ✗ ❑ ☞ ➡ ✚
D) ❑ ✚ ➡ ✗ ✔
E) ❑ ▲ ○ ➡ ✔

12.

I.	II.
4 7 3 5 6	▲ ○ ✐ ➡ ☞
6 8 3 2 1	▲ ☞ ○ ➤ ❤
4 3 2 1 7	❤ ☞ ✔ ✍ ➠
5 3 1 0 8	❤ ✔ ○ ✐ ➡
6 7 8 9 0	➤ ○ ➡ ➠ ✔

⇒ **54732 = ?**

A) ➤ ☞ ▲ ○ ✐
B) ➤ ○ ▲ ☞ ✐
C) ➠ ➤ ▲ ➡ ☞
D) ➤ ➠ ➡ ▲ ❤
E) ➤ ▲ ☞ ○ ✐

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	A	A	B	A	D	B	C	A	E	B	E

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1.

I.	II.
9 2 8 6 5	M B A K U
8 6 2 1 3	L R M S A
3 5 8 1 0	F L A C B
0 4 7 6 5	U R S C B
2 4 3 7 8	A C L K M

⇒ **MFARK = ?**

A) 39841 B) 39705 C) 93847 D) 39615 E) 39805

2.

I.	II.
9 4 7 6 5	C A E L M
3 1 2 7 6	C R K A M
9 1 2 4 5	C K A L C
8 6 1 3 7	U L R B E
9 2 4 6 9	B R K E L

⇒ **CLKRB = ?**

A) 96231 B) 93675 C) 56217 D) 96273 E) 96213

3.

I.	II.
2 8 7 6 3	U L B K R
3 1 9 2 0	A C B K E
0 4 7 6 9	R E M B K
0 5 9 2 7	E M R A U
9 3 1 7 6	U S R A B

⇒ **28763 = ?**

A) ABULC B) ACBKL C) ALKBC D) ACALK E) EUKBK

4.

I.	II.
2 8 7 6 5	B L K R C
3 2 1 7 9	M L R E S
9 2 1 8 7	L M R S U
6 5 3 2 1	S U B L K
8 2 7 4 6	C L K M R

⇒ **BCLSK = ?**

A) 93217 B) 73219 C) 39261 D) 37932 E) 39262

5.

I.	II.
2 7 6 8 3	S U E B M
3 1 2 7 8	E M T B C
8 2 4 7 6	B E A M T
9 3 4 8 7	C U E M B
9 1 2 8 7	S C A B M

⇒ **83147 = ?**

A) SUEBM B) BEAMT C) CUEMB D) BCUAM E) SCABM

6.

I.	II.
1 2 3 4 7	R T L M K
6 3 7 2 1	L S Z K T
7 4 8 1 3	E L M R P
2 1 9 3 6	M K E T R
9 7 2 6 5	K M T S L

⇒ **97265 = ?**

A) LSZKT B) ELMRP C) KMTSL D) RTLMK E) MKETR

7.

I.	II.
5 7 6 3 1	A C L R M
7 2 5 6 4	A M R V K
4 3 1 8 7	M R K N V
2 5 4 9 6	R A V L S
7 0 3 5 2	K L S E A

⇒ **43187 = ?**

A) KLSEA B) RAVLS C AMRVK D) MRKNV E) ACLRM

8.

I.	II.
B İ B E R	2 1 2 4 3
Ü Ç L E R	7 8 5 4 3
E R L E R	4 3 5 4 3
K İ R L E	6 1 3 5 4
B E K L E	2 4 6 5 4

⇒ **BEKLE = ?**

A) 21243 B) 78543 C) 43543 D) 61354 E) 24654

9.

I.	II.
△ ○ ❑ ✳ ○	1 2 3 4 2
○ ❑ ✳ ○ △	2 3 4 2 1
❑ ✳ ○ △ ○	3 4 2 1 2
✳ ○ △ ○ ❑	4 2 1 2 3
○ △ ○ ❑ ✳	2 1 2 3 4

⇒ ○✳❑△❑ = ?

A) 42343 B) 42313 C) 23414 D) 31242 E) 24313

10.

I.	II.
Ç E R E V	7 4 9 4 6
B A R B İ	8 5 9 8 2
V E B İ R	7 4 1 2 9
B İ R E N	8 2 9 4 3
Ç E Y İ R	6 4 8 2 9

⇒ **VEBİR = ?**

A) 74946 B) 85982 C) 74129 D) 82943 E) 64829

11.

I.	II.
◘ ★ ▲ ❑ ▼	0 2 1 2 0
▼ ◣ ◢ ◣ ※	8 3 4 5 8
❑ ✚ ▲ ◢ ❑	7 9 5 9 2
◘ ※ ★ ※ ◘	6 0 3 9 7
△ ◘ ✚ ◣ ▼	0 1 4 8 7

⇒ △◘✚◣▼ = ?

A) 60397 B) 79592 C) 02120 D) 01487 E) 83458

12.

I.	II.
❢ ☒ ※ ↕ ◣	7 5 1 0 5
⁂ ● ◈ ▣ ▲	3 9 8 5 2
↕ ※ ◣ ※ ↕	4 1 7 6 0
※ ▣ ☒ ◣ ▣	6 7 0 7 6
● ▲ ↕ ❢ ▲	9 2 6 4 2

⇒ ※▣☒◣▣ = ?

A) 67076 B) 75105 C) 92642 D) 41760 E) 39852

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	E	B	C	D	B	A	E	E	E	A	B

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
3 8 5 7 6 5	M L U C A E
9 2 6 5 7 3	L A U C K U
3 2 1 7 8 1	L K P C B P
9 3 1 7 2 4	A E P K U C
2 4 5 8 1 7	M A B P C L

⇒ **MSELAK = ?**

A) 904328 B) 904319 C) 903765 D) 804318 E) 903428

2.

I.	II.
8 2 7 6 5 8	K E P U L K
3 7 9 1 2 9	S K A M U S
2 3 4 5 9 2	E K C L K C
8 2 1 7 6 4	E A L C K L
3 2 1 9 2 1	S K C A M P

⇒ **327651 = ?**

A) EKMAUC B) CUMKEA C) EKMCUA D) EKAMUC E) SKAUMU

3.

I.	II.
2 1 7 6 5 1	B E M K L S
3 2 1 6 7 9	L M E C P S
9 2 3 4 5 1	M E S P C B
8 2 7 6 3 1	U E C P M S
5 3 2 7 6 1	E S C P L S

⇒ **MBUECP = ?**

A) 308765 B) 938761 C) 129875 D) 543796 E) 398276

4.

I.	II.
9 8 6 7 2 1	L M B A C P
1 9 8 7 6 3	K E S L M B
7 2 1 3 4 5	P M B L S E
5 2 1 7 6 8	E M L S P B
8 2 7 6 5 1	B K E L S A

⇒ **124768 = ?**

A) BMCLUS B) BMCLSE C) CMBULS D) SAMBEL E) BAMCLS

5.

I.	II.
2 7 6 5 4 3	S P E C K L
8 7 6 9 3 5	B S P L C K
8 2 7 3 5 4	A P E L P K
1 2 1 4 5 6	U S U K C E
9 7 6 3 7 4	B P E A L C

⇒ **APELPK = ?**

A) 876935 B) 121456 C) 827549 D) 976374 E) 276543

6.

I.	II.
2 8 9 6 5 4	S T U C B L
4 3 1 2 7 3	M U C B A L
2 7 6 5 4 3	M S T C B A
1 2 3 4 7 9	P M L A U T
8 9 7 6 5 3	A L P M U L

⇒ **478321 = ?**

A) AUSLMP B) AUSMLP C) PAUSNB D) CUPMSA E) AUSMPL

7.

I.	II.
2 7 9 2 1 7	L M E A K U
2 8 7 9 6 1	L E B L K E
3 4 5 7 6 9	L M E B A K
2 8 7 6 1 3	L K S E B M
2 1 4 7 9 8	U S P E A B

⇒ **LMAKUB = ?**

A) 831276 B) 286139 C) 286134 D) 287138 E) 286136

8.

I.	II.
2 7 8 9 3 1	L S P K E B
1 2 7 8 9 4	K S A P B E
4 7 9 2 1 3	K E U C L B
3 2 1 6 7 9	B K E U S P
2 1 6 5 4 3	E K S A P L

⇒ **324657 = ?**

A) LBCUCS B) BUCLSK C) BKLUCS D) KSAEBC E) BKLUCP

9.

I.	II.
1 2 7 6 5 4	S E M A L C
3 2 1 8 9 6	M E B U P K
0 2 3 4 5 7	B E C K L A
5 8 9 7 6 0	L P C K L M
5 9 7 6 5 3	L U P C K S

⇒ **LPCKAS = ?**

A) 597640 B) 597340 C) 403217 D) 587640 E) 597540

10.

I.	II.
6 8 3 2 1 7	▲ ✗ ✐ ✻ ☞ ✔
4 2 8 1 9 6	✇ ☞ ○ ➡ ✔ ▲
4 1 8 2 7 9	▲ ✻ ☞ ✗ ✐ ○
6 2 1 8 3 4	○ ✻ ✗ ☞ ✇ ▲
9 1 4 5 7 6	○ ☞ ✗ ✻ ✔ ✇

⇒ **485621 = ?**

A) ○ ✗ ➡ ▲ ✻ ☞ B) ○ ✗ ✐ ▲ ✻ ☞ C) ✗ ✐ ✻ ▲ ☞ ➡ D) ✐ ○ ✗ ✐ ▲ ☞ E) ○ ✗ ▲ ➡ ✻ ☞

11.

I.	II.
6 2 5 7 9 1	✗ ▲ ☞ ❊ ✔ ✐
1 3 7 6 5 2	☞ ➡ ○ ❊ ▲ ✻
8 9 6 7 0 4	✇ ➡ ✻ ○ ❊ ▲
3 2 1 5 7 9	✻ ➡ ✇ ○ ❊ ☞
1 2 3 5 7 6	✻ ✇ ❊ ☞ ○ ➡

⇒ **✗ ❊ ▲ ✇ ☞ ➡ = ?**

A) 873296 B) 783296 C) 879362 D) 789623 E) 769623

12.

I.	II.
4 2 8 7 6 5	✇ ☞ ✐ ➡ ✻ ○
3 2 1 7 9 5	☞ ▲ ✗ ✻ ✗ ○
3 8 6 2 7 4	✔ ✐ ✇ ○ ➡ ☞
4 1 3 5 7 2	✔ ☞ ▲ ➡ ✗ ○
2 8 6 9 6 5	✇ ▲ ✗ ☞ ➡ ✔

⇒ **827651 = ?**

A) ▲ ✻ ✗ ○ ➡ ☞ B) ▲ ☞ ➡ ✗ ✐ ○ C) ☞ ▲ ✻ ✗ ○ ➡ D) ▲ ☞ ➡ ✗ ○ ✐ E) ☞ ▲ ➡ ✐ ✗ ✻

YANTITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	D	E	B	D	A	B	C	A	A	C	D

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
A H E C L G	▲ ❏ ➡ ⇛ ✐ ✇
K D N L A B	✐ ➦ ✇ ❏ ☞ ➡
G L C E H A	✐ ✔ ❁ ✇ ✐ ➡
K H R N K B	☞ ✔ ✻ ▲ ❏ ⇛
C L B G K N	⇛ ❏ ▲ ✻ ✔ ☞

⇒ **ABNKDE = ?**

A) ➡ ☞ ✇ ✐ ➦ ✻
B) ☞ ➡ ✐ ✇ ➦ ✻
C) ☞ ➡ ✇ ✐ ➦ ✻
D) ☞ ✻ ✐ ➦ ✇ ➡
E) ☞ ➡ ✇ ✻ ✐ ➦

2.

I.	II.
R A M A K S	✐ ➡ ❏ ▲ ✔ ✻
İ N E K L E	✐ ✻ ➦ ✻ ❏ ✇
İ E A N P M	✔ ☞ ✻ ▲ ➡ ➦
S L P N A E	✇ ⇛ ➡ ▲ ✻ ☞
R P K N İ A	✔ ▲ ☞ ❏ ⇛ ☞

⇒ ✐ ✔ ✻ ▲ ➡ ⇛ = ?

A) RAİNPL
B) RİANPL
C) NAİRLP
D) RTANLP
E) RAİNAK

3.

I.	II.
U M M A N A	☞ ✔ ✔ ➡ ❏ ➡
V E R A L M	▲ ✻ ✔ ⇛ ➡ ➦
S E M R A L	➦ ☞ ⇛ ➡ ❏ ✇
S A N T A R	✐ ✻ ⇛ ➡ ➦ ✔
L U R A N T	▲ ➡ ❏ ✇ ➡ ⇛

⇒ **MARSAL = ?**

A) ✔ ➡ ⇛ ▲ ➡ ➦
B) ✔ ⇛ ➡ ▲ ➡ ➦
C) ✔ ▲ ⇛ ➡ ⇛ ✐
D) ✔ ➡ ⇛ ▲ ⇛ ✐
E) ▲ ✔ ⇛ ➡ ⇛ ✐

4.

I.	II.
M A R M A R	➦ ⇛ ✇ ✻ ⇛ ▲
T E R A S A	❏ ⇛ ✻ ☞ ▲ ☞
T U N E L E	➦ ➡ ❏ ⇛ ✐ ☞
N E V R E S	✔ ☞ ✻ ✔ ☞ ✻
N U T E L A	❏ ➡ ➦ ⇛ ✐ ⇛

⇒ ✻ ✇ ☞ ✔ ⇛ ➡ = ?

A) RAVMEU
B) UMERAV
C) RUAMUL
D) RVEMAU
E) RVAMEU

5.

I.	II.
K A N B C D	0 9 1 3 4 7
N M A E S C	3 5 0 8 7 1
L M E S D K	4 6 9 2 5 8
A B C N M S	1 4 2 6 9 7
E C K L A D	2 5 4 0 8 9

⇒ **ABCNMS = ?**

A) 142697
B) 091347
C) 254089
D) 469258
E) 350871

6.

I.	II.
N H Ü T A K	✔ ❏ ⇛ ✐ ➦ ✇
D E Ü A K S	☞ ✻ ▲ ➡ ⇛ ✐
R E A K D S	✐ ⇛ ➡ ❏ ✔ ➡
N Ü H R A T	➦ ❏ ▲ ⇛ ✐ ✇
K A T E R T	☞ ▲ ✻ ✔ ⇛ ➡

⇒ ❏ ➦ ▲ ✇ ➡ = ?

A) EÜDST
B) EDÜST
C) DEÜST
D) EDÜSM
E) EDÜTS

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7.

I.	II.
K H L E U S	⇒ ✐ ➦ ✇ ➡ ❑
M N A R S U	✔ ❑ ✻ ➡ ▲ ✐
L E S M A R	☞ ✔ ✻ ▲ ❑ ➡
H U L S E N	✻ ▲ ➡ ⇒ ➦ ✇
K E L H U R	☞ ▲ ✻ ✔ ❑ ✇

⇒ **HUSRAN = ?**

A) ✔ ❑ ✇ ➡ ➦ ✐
B) ✔ ❑ ⇒ ✇ ➦ ✐
C) ❑ ✔ ✇ ➡ ➦ ✐
D) ✔ ❑ ➡ ✇ ➦ ✐
E) ✔ ❑ ➦ ✇ ➡ ✐

8.

I.	II.
N U K R E L	✐ ✻ ☞ ✻ ➦ ✇
R A M K U L	☞ ✻ ❑ ▲ ✔ ▲
K U M A N A	➦ ▲ ❑ ☞ ✻ ➡
S U K U R E	⇒ ▲ ✔ ▲ ➦ ✇
H A N A R E	✔ ✻ ☞ ➦ ✇ ➡

⇒ ❑ ➦ ▲ ✇ ➡ ☞ = ?

A) AKMLEU
B) AUMLKE
C) EAKALM
D) MUAKLE
E) MRAELK

9.

I.	II.
S E R M A L	✔ ☞ ✻ ▲ ❑ ➡
H A L U K A	✻ ☞ ✿ ✔ ❑ ✄
M E S H A N	▲ ❑ ✄ ✇ ✘ ❑
M A H S E N	✘ ❑ ➡ ✇ ➡ ❑
K A N U N A	✔ ❑ ▲ ✻ ☞ ➡

⇒ **SERHAN = ?**

A) ✻ ☞ ✿ ▲ ❑ ➡
B) ✻ ☞ ▲ ✿ ❑ ➡
C) ✻ ☞ ✿ ❑ ➡ ▲
D) ☞ ✻ ▲ ❑ ✿ ➡
E) ☞ ✻ ✿ ▲ ❑ ➡

10.

I.	II.
7 6 5 9 2 1	➦ ▲ ✔ ✐ ○ ✘
1 7 6 5 9 2	☞ ✘ ➦ ✇ ✔ ▲
9 1 5 3 6 4	○ ➦ ✐ ✻ ✔ ☞
4 2 1 8 6 7	▲ ✔ ✐ ○ ✘ ➦
7 9 6 5 7 2	▲ ○ ✔ ✐ ▲ ✘

⇒ ✐ ▲ ✇ ✔ ○ = ?

A) 89765
B) 65479
C) 57869
D) 59678
E) 67954

11.

I.	II.
6 5 7 3 2 9	✇ ▲ ✔ ✻ ✐ ▲
9 2 5 6 4 6	➦ ▲ ○ ☞ ✻ ✇
1 2 4 3 5 6	✐ ✇ ▲ ✻ ✔ ○
8 9 5 2 1 7	✇ ✻ ▲ ➦ ✘ ➦
9 5 1 2 8 5	✔ ✻ ✘ ☞ ▲ ➦

⇒ **913457 = ?**

A) ✇ ✻ ✘ ☞ ➦ ✐
B) ✻ ✐ ✇ ☞ ✔ ✻
C) ✔ ☞ ✻ ☞ ➦ ✐
D) ✇ ✔ ☞ ✘ ○ ▲
E) ✇ ✔ ☞ ✘ ▲ ○

12.

I.	II.
8 2 7 6 5 3	✻ ▲ ➦ ☞ ✐ ○
1 7 2 5 3 4	○ ✘ ✻ ✐ ○ ☞
4 6 1 3 4 5	✔ ☞ ✘ ✇ ▲ ➦
8 2 5 6 7 9	✇ ➦ ▲ ✘ ☞ ✐
9 5 6 8 7 2	✇ ➦ ☞ ✘ ▲ ✔

⇒ ✻ ✘ ✇ ✐ ➦ ▲ = ?

A) 196832
B) 169832
C) 328968
D) 168327
E) 989137

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	A	E	D	B	D	E	A	C	E	D

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, şıklardaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in choices. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1. **I.** **II.**

● △ ❑
○ △ ❑
❑ △ ○
■ ▲ ❑
△ ▲ ❑

⇒ ■ ▲ ❑ = ?

A) NTR B) KNR C) LTR D) MNR E) RNK

2. **I.** **II.**

▲ ▲ ❑
❑ ❑ ✱
✱ ▲ ✱
○ ▲ ○
▲ ▲ ○

⇒ ❑ ❑ ✱ = ?

A) RER B) EER C) AEA D) EEK E) KKA

3. **I.** **II.**

✪ ○ ❂ ■
❑ ❂ ■ ▲
○ ❑ ❂ ●
■ ○ ❑ ❂
❂ ■ ❑ ●

⇒ ✪ ○ ❂ ■ = ?

A) 3152 B) 2356 C) 7123 D) 1526 E) 5239

4. **I.** **II.**

ASTD
DSAT
TASD
DAST
DSTA

⇒ **DSTA = ?**

A) 6789 B) 9678 C) 9786 D) 9768 E) 8679

5. **I.** **II.**

1235
5423
3214
2345
5123

⇒ **1235 = ?**

A) LMAN B) NKLM C) KLMN D) MLKA E) NALM

6. **I.** **II.**

△ ❑ ✪ ○
● ▲ ■ ✕
✿ ○ ■ ○
❂ ▲ ♥ ✕
✿ ✕ © ▲

⇒ ❂ ▲ ♥ ✕ = ?

A) KENE B) BUNA C) PİRE D) ZULA E) KAMU

7. I. II.

XYVZT
TMVXY
TMYZV ⇒ **VXTZY = ?**
VXTZY
VZTMY

A) 24163 B) 25143 C) 53241 D) 16342 E) 16253

8. I. II.

UYMAK
YAMUK
UYGUN ⇒ **UYGUN = ?**
SAYAK
GAMAN

A) ✣❂✩♣✱ B) ✕❂✣❂✱ C) ♣✣✓♣■ D) ♣✣✩❂✱ E) ✓❂✩❂■

9. I. II.

RASİT
TEPKİ
RESET ⇒ **TEPKİ = ?**
TESİR
TESTİ

A) ❃✌✿♣✇ B) ❃✌✗✇✎ C) ❃✌✗❃✇ D) ✎✌✗✌❃ E) ✎✝✗✇❃

10. I. II.

♥ ✩ ❃ ✪ ✳ ✇
✩ ✌ ✩ ❃ ✇ ✳
✳ ✇ ✗ ♥ ✪ ✝ ⇒ ♥ ✩ ❃ ✪ ✳ ✇ = ?
✝ ✩ ✗ ❃ ✩ ♥
✳ ✩ ✳ ✪ ❃ ✪

A) 575382 B) 252131 C) 956354 D) 453128 E) 286419

11. I. II.

✆ ✣ ✕ ✝ ✌
✆ ✣ ✕ ★ ❒
✆ ✣ ♥ ✈ ✆ ⇒ ✆✣✕★❒ = ?
✆ ★ ✆ ✣ ✌
✆ ★ ➶ ★ ❒

A) 14693 B) 15852 C) 15143 D) 14652 E) 14701

12. I. II.

◇ ○ □ ▲ ● ◆ ▲
⊕ △ ⊕ ■ ◆ ⊖ ▲
▲ □ ◆ ⊕ ■ ● ▲ ⇒ △ ▲ ■ □ ◇ ▲ ■ = ?
△ ▲ ■ □ ◇ ▲ ■
□ ▲ ■ ▲ □ ○ ◇

A) 1424158 B) 8514674 C) 9392704 D) 3421842 E) 4179264

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	E	C	C	C	D	B	C	A	D	D	D

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, II. adımdaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

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1.

I.	II.
2 8 4	✐ ○ ▲
4 3 1	▲ ➡ ⇛
9 6 2	❑ ☞ ✐
4 6 8	✐ ✇ ☞
1 9 7	➡ ✇ ❑

⇛ **287▲☞9 = ?**

A) ☞❑✐29➡ B) ☞❑➡18✇ C) ❑☞⇛18➡ D) ❑☞✐18➡ E) ☞❑✐18✇

2.

I.	II.
2 4 6 7	L S V K
8 7 5 6	L R K V
2 3 7 6	E K R B
4 1 8 5	R B C E
5 6 4 1	C V E K

⇛ **819RB1 = ?**

A) BCU40A B) CBU41B C) BCU40E D) CBUU40B E) EBC40D

3.

I.	II.
2 1 8 9	○ ➡ ❑ ⇛
9 2 6 5	➡ ✔ ☞ ○
3 1 0 8	☞ ○ ⇛ ❑
8 9 5 6	✇ ✔ ✐ ☞
9 7 4 6	○ ➡ ▲ ❑

⇛ **❑▲✔76 = ?**

A) 461❑➡ B) 614❑✇ C) 641✇❑ D) 641➡○ E) 641➡❑

4.

I.	II.
B U R S	☞ ✚ ✘ ➡
K A L E	❢ ✚ ☞ ✚
S A K A	☞ ❑ ✐ ✚
S U R A	❢ ❑ ✐ ✚
K U R A	✇ ❑ ✐ ❢

⇛ **❑☞✚EB = ?**

A) UKA➡✇ B) KAU✇✘ C) AUK✇➡ D) UKA☞➡ E) UKA➡✐

5.

I.	II.
2 8 5 6 1	S U R L C
1 7 9 8 1	S B C L V
2 3 7 6 5	U V T C M
8 4 9 1 6	V R T B V
3 1 9 5 4	B M T V L

⇛ **MB798 = ?**

A) 84RTB B) 48TRB C) 48RTB D) 48BTR E) 84BTR

6.

I.	II.
1 2 4 5 7	A V M R L
8 9 2 1 3	M V R U L
3 2 1 4 7	S E V M A
9 6 8 3 5	U L E S A
5 7 9 8 3	E B S A U

⇛ **ME8A1 = ?**

A) 14S3A B) 17M9S C) 14M7E D) 19S3M E) 19E7M

7.

I.	II.
1 7 6 5 2	✔ ➦ ❑ ✇ ✐
2 1 9 1 0	❑ ➦ ✇ ➡ ✐
3 6 5 7 8	☞ ⇛ ○ ▲ ✔
3 9 8 0 1	☞ ❑ ✇ ➦ ○
6 7 5 4 2	✐ ✔ ⇛ ✔ ▲

⇒ **✔✐❑24 = ?**

A) 126✐➡
B) 261✐➡
C) 162➡✐
D) 226⇛✐
E) 162✐⇛

8.

I.	II.
2 3 1 0 4 6	D J A B G K
1 2 4 7 9 8	B E G A J H
2 3 4 0 4 5	G B J K F D
8 4 0 2 1 7	F H D G E D
9 6 8 1 3 8	B E J A J C

⇒ **24106H = ?**

A) JBHGH8
B) JHGBH6
C) BJHGA2
D) BJGAH5
E) BJGAH6

9.

I.	II.
● ✔ ❑ ✐ ☞ ⇛	2 9 8 9 2 1
✔ ☞ ➡ ☞ ✔ ●	8 9 4 2 6 8
➦ ✐ ⇛ ➡ ❑ ▲	1 2 5 7 9 3
➡ ☞ ▲ ✔ ➦ ➡	6 7 3 8 5 4
✔ ▲ ➡ ● ❑ ⇛	2 4 8 1 5 3

⇒ **9✔☞❑▲1 = ?**

A) ✔2654➡
B) ⇛1985➡
C) ☞2954●
D) ☞2985❑
E) ●2985▲

10.

I.	II.
✱ ✐ ▲ ❑ ➦ ➡	A G B F J D
✔ ✚ ✐ ✗ ☞ ✔	D C B H J D
✱ ✐ ✗ ✱ ▲ ☞	K B A G D E
▲ ❑ ✐ ➦ ☞ ✔	K B H K A J
✱ ☞ ✗ ➡ ➦ ✐	K J H E F B

⇒ **DA✚✗BK = ?**

A) ✔ ✗ C B ✐ ✱
B) ✔ ▲ C H ✐ ✱
C) ✱ ✔ H C ➡ ✐
D) ✔ ✗ A F ✐ ✱
E) ✔ ✗ K B ✐ ☞

11.

I.	II.
9 5 8 3 0	C B K N M
8 1 3 6 0	A S U R C
4 8 1 2 6	B K R M E
7 9 5 3 4	U K R M A
5 1 3 6 7	S U B R E

⇒ **M953K = ?**

A) 6UBR2
B) 8KRM1
C) 0KRM4
D) 7BKN1
E) 6SUR1

12.

I.	II.
2 8 0 0 7 6	L C K U P A
5 3 7 9 0 1	B A P K E M
2 1 0 7 8 6	B E K A P C
8 6 3 4 5 7	B E P P K M
2 8 7 1 0 3	E M C S L K

⇒ **3B57MC = ?**

A) C2LK43
B) C3LK62
C) E2CK60
D) M2LK36
E) C2LK63

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	E	A	C	D	A	E	C	B	E	E

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, şıklardaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

In the following questions, each letter, digit or figure in step I is shown by a different letter, digit or figure in choices. Accordingly, what are the letters, digits or figures in which are indicated by question mark.

1.

I.	II.
F E D A	0 9 6 7
K A M P	6 9 8 9
N A M E	4 3 5 9
M A N A	8 9 6 3

⇒ **FEDA = ?**

A) 0967 B) 4689 C) 1384 D) 4359 E) 8963

2.

I.	II.
P İ K A P	2 7 3 4 9
L İ M A N	1 4 2 6 3
K A L E M	5 7 1 4 5
M E L İ K	3 6 2 7 1

⇒ **LİMAN = ?**

A) 27349 B) 87926 C) 57145 D) 14263 E) 36271

3.

I.	II.
K D P N M	3 2 0 1 5
N F M P A	4 8 6 7 9
E X K Y D	0 5 7 8 6
X N D E Y	2 8 5 3 1

⇒ **DAMAK = ?**

A) 95650 B) 54740 C) 59692 D) 53630 E) 59690

4.

I.	II.
□ ○ ❊ ※	7 8 2 6
■ ▲ ★ ●	1 3 7 9
❊ ★ △ ■	5 4 9 2
▲ ● ※ △	6 5 8 4

⇒ **※□❊▲● = ?**

A) 91754 B) 97145 C) 91432 D) 61754 E) 71945

5.

I.	II.
X L Q I R	□ △ ■ ❊ ⌘
B C P F X	⌘ ■ ▲ ❊ ●
L P B C Q	△ ○ ● ▲ ■
R Q C I B	● ▲ ○ ★ □

⇒ **⌘❊▲★□ = ?**

A) RFPBL B) CFRQX C) RICFX D) RLFXB E) QBLRX

6.

I.	II.
E Z G İ	B X L X
M A K İ	Q I F R
Y A K A	C X P F
D A M G	P X L R

⇒ **GİZEM = ?**

A) FIQRP B) CIRQP C) XRIQP D) FRIQP E) FPIRQ

7.

I.	II.
1 4 7 9 6	1 7 6 3 9
3 5 9 8 2	4 5 1 9 2
7 4 3 2 6	8 5 4 6 2
8 1 2 5 9	3 8 9 7 6

⇒ **12345 = ?**

A) 89157 B) 81975 C) 98157
D) 57189 E) 81957

8.

I.	II.
△ ○ ●	C B Q
■ □ ○	X L M
▲ ● ■	Q X P
□ △ ✻	L P B

⇒ **LXP = ?**

A) △■● B) △□○ C) □△○
D) △■○ E) △□●

9.

I.	II.
3 4 7 5 2 1	Y D E Z A K
1 2 9 8 3 5	M Y Z C K A
9 7 8 9 2 6	İ Z G İ K E
4 5 6 7 1 2	A K İ G M D

⇒ **123456 = ?**

A) MYDEKA B) ADMEKG C) AKMYDE
D) DEKYDE E) KAYMDE

10.

I.	II.
C H W X	Ψ Θ Σ Φ
R S T V	π Σ Θ ⇔
V W H Y	Σ Ψ Φ ∩
W C X T	∃ Ξ ∩ π

⇒ **π Ξ Σ ∃ = ?**

A) VSRW B) VSWR C) WTCX
D) VWYT E) CVYX

11.

I.	II.
7 1 2 6 5	> ∈ ⊥ ∅ ⊄
2 3 4 7 9	⊥ > ⊄ % ≡
1 8 7 3 2	⊄ ∅ < ⊥ ξ
6 7 8 1 9	% ⊥ ∈ > ξ

⇒ **∈ % ∅ ≡ ⊥ = ?**

A) 78456 B) 45853 C) 12853
D) 85369 E) 86357

12.

I.	II.
π ∈ ∩ Σ ∅	β < ∉ ⊥ ⊆
∈ Σ Θ Γ ⇔	< % ⊥ ⊆ β
∅ π ⇔ ∩ Σ	⊥ % ⊆ β <
∩ ∈ Σ ∅ π	% ⊆ > ≡ ∈

⇒ **Σ π ∅ ∈ Γ = ?**

A) ⊆ < β % ≡ B) < ⊆ > ≡ % C) ⊆ β > % ≡
D) ⊆ < > % ≡ E) ⊆ > β % ≡

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	A	E	A	C	D	A	B	C	B	E	A

Aşağıdaki sorularda I. adımdaki her bir harf, rakam veya şekil, şıklardaki farklı birer harf, rakam veya şekil ile gösterilmiştir. Buna göre, soru işaretiyle belirtilen, harfleri rakamları veya şekilleri bulunuz.

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1.

I.

4813
2426
6319
4927

⇒ II. ?

A)
\ // % /
‰ \ ‰ =
= / % \\
\ // ‰ ||

B)
\ // % /
‰ \ ‰ =
= / % \\
\ // % ||

C)
\ \\ % /
‰ \ ‰ =
= / % \\
\ \\ ‰ ||

D)
\ // % /
‰ \ ‰ ||
= / % \\
\ \\ ‰ ||

E)
\ // % /
‰ \ ‰ =
= / % \\
\ \\ ‰ ||

2.

I.

■ ● ♣ ⊃
✔ ■ ✔ ✎
♣ ○ ▲ ❑
⊃ ✎ ● ○

⇒ II. ?

A)
1234
5156
3789
4627

B)
1234
5156
3789
4672

C)
1234
5155
3789
4672

D)
1234
5165
3789
4672

E)
1234
5165
3789
4627

3.

I.

☑ ✎ ✋ ⊙
ⓘ ◘ ☒ ☑
☒ 🗐 ⊙ ×
✎ ☑ ◘ ⓘ

⇒ II. ?

A)
4286
5904
0167
2495

B)
4286
5904
0176
2495

C)
4268
5904
0167
2495

D)
4286
5904
0167
4295

E)
2486
5904
0176
2495

4.

I.

➿ ▣ + ⊘
+ ✎ ▲ +
✂ ✋ ➿ ▲
⊘ ▣ ✋ ✂

⇒ II. ?

A)
4863
6126
5942
3859

B)
4863
6216
9542
3859

C)
4863
6126
9542
3859

D)
4863
6126
9542
3985

E)
4836
6126
9542
3859

5.

I.

⇒

II.

?

A)

6382
2195
8416
3597

B)

6328
2195
8416
3957

C)

6382
2195
4816
3957

D)

6382
2195
8416
3957

E)

6382
1295
8416
3957

6.

I.

2	8	7	6	5
4	3	7	9	1
1	2	4	3	5
6	9	8	7	4

⇒

II.

?

A)

S	T	K	B	A
N	U	K	L	V
V	S	N	U	A
B	L	T	K	N

B)

S	T	K	B	A
N	U	K	L	V
V	S	A	N	U
B	L	A	T	N

C)

S	T	K	B	A
N	U	K	V	K
V	S	N	U	A
B	L	T	K	N

D)

S	T	K	B	A
A	N	U	K	V
V	S	N	U	A
B	L	T	K	N

E)

S	T	K	B	P
A	N	K	L	V
V	S	N	U	A
L	B	T	K	N

7.

I.

3	2	7	6	5
4	8	2	3	5
7	6	9	8	2
2	5	8	9	4

⇒

II.

?

A)

A	S	L	T	B
V	N	S	T	P
L	M	U	N	S
S	T	N	U	V

B)

A	S	L	B	T
C	N	S	A	T
L	B	U	N	S
S	T	N	U	C

C)

A	S	L	B	T
V	N	S	A	T
B	L	U	N	S
T	S	N	U	V

D)

A	S	L	B	T
V	N	S	A	T
L	B	U	S	N
T	S	U	N	V

E)

A	S	L	B	T
N	V	A	S	T
B	L	U	N	S
S	T	U	N	V

8.

I.

1	4	2	8	6
7	2	8	4	7
2	3	5	7	9
9	1	2	3	4

⇒

II.

?

A)

A	U	K	T	V
N	K	T	N	U
A	S	B	N	L
A	L	K	S	U

B)

S	U	K	T	V
K	N	T	U	V
S	A	B	N	L
L	A	K	S	U

C)

A	U	K	T	V
N	K	T	U	N
K	S	B	N	L
L	A	K	S	U

D)

A	U	K	T	V
N	K	T	N	U
K	S	L	N	L
L	A	K	S	U

E)

S	U	K	T	V
A	K	T	U	V
A	S	B	N	L
L	A	K	S	U

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	A	A	C	D	A	B	C

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1.

I.

K	M	L	S	R
A	E	M	K	B
U	A	R	L	C
C	B	K	S	U

⇒ II. ?

A)

6	3	4	2	7
1	8	3	6	5
9	1	7	4	0
0	5	6	2	9

B)

6	3	4	2	7
1	8	3	5	6
9	1	7	0	4
5	0	6	2	9

C)

6	3	4	2	7
1	8	3	5	6
9	1	7	0	4
5	0	6	2	9

D)

6	3	4	2	7
8	1	6	3	5
3	1	6	4	0
0	5	6	2	9

E)

6	3	4	2	7
8	1	6	3	4
1	3	6	4	0
0	5	6	2	9

2.

I.

K	L	M	A	E
S	U	C	A	R
B	C	L	S	U
R	E	B	B	K

⇒ II. ?

A)

2	8	7	0	4
1	9	6	0	5
3	9	8	6	1
3	4	3	3	2

B)

2	8	7	0	4
9	1	9	0	5
3	9	8	1	6
5	4	3	3	2

C)

2	8	7	0	4
1	6	9	0	5
3	9	8	1	6
5	4	3	3	2

D)

2	8	7	0	4
1	6	9	1	5
3	9	8	1	6
5	4	3	3	2

E)

2	8	6	0	4
1	6	9	1	5
3	9	8	1	6
5	4	3	3	2

3.

I.

M	K	L	A	E	M
U	P	C	L	S	P
P	K	S	M	U	C
P	B	E	C	B	U

⇒ II. ?

A)

3	1	2	7	6	3
8	4	6	2	0	4
4	1	0	3	8	6
7	5	9	6	8	5

B)

3	1	2	7	9	3
8	4	6	2	0	4
4	1	0	3	8	6
4	5	9	6	5	8

C)

3	1	2	7	9	3
4	8	6	2	0	4
4	1	0	3	8	6
7	5	9	6	5	8

D)

3	1	2	7	9	3
8	4	6	2	0	1
4	1	0	3	8	6
7	5	9	6	5	8

E)

3	1	2	7	9	3
4	8	6	2	4	0
4	1	0	3	8	6
0	5	9	6	5	8

4.

I.

0	1	8	7	6	5
4	3	2	1	8	9
0	7	6	2	4	7
6	5	7	8	9	1

⇒ II. ?

A)

P	B	M	K	L	C
E	S	U	M	B	E
P	K	L	U	E	K
L	C	K	M	D	B

B)

P	B	M	K	L	C
E	S	U	B	M	E
P	K	L	U	E	K
L	C	K	M	A	B

C)

P	B	M	K	L	C
E	S	U	B	M	A
P	K	L	U	E	K
L	C	K	M	A	B

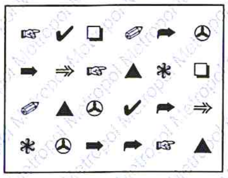
D)

P	B	M	K	L	C
E	S	U	B	M	A
K	P	L	U	E	K
L	K	C	M	A	B

E)

P	B	M	K	L	C
E	S	U	B	M	A
P	K	L	E	U	K
L	C	K	M	B	A

5. I. II.



⇒ ?

A)

U	N	M	V	L	T
A	S	U	R	E	N
V	S	T	M	L	S
E	T	A	L	U	R

B)

U	N	M	V	L	T
A	R	U	S	E	M
V	S	T	N	L	R
E	T	A	L	U	S

C)

U	M	N	V	L	T
A	N	U	S	E	N
L	S	T	M	L	R
A	T	E	V	U	R

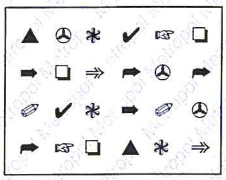
D)

U	M	S	V	L	T
A	R	U	N	E	S
V	N	T	M	L	R
E	T	A	L	U	R

E)

U	M	S	V	L	T
A	R	U	S	N	E
S	V	T	M	L	R
E	T	A	L	U	S

6. I. II.



⇒ ?

A)

Ü	S	H	R	N	E
K	E	A	D	S	D
T	R	H	K	T	S
D	S	E	Ü	H	A

B)

Ü	S	H	R	E	N
T	E	A	D	S	D
K	R	H	T	K	S
D	E	N	Ü	H	A

C)

Ü	S	H	R	N	E
T	E	A	D	S	D
K	R	H	T	K	S
D	N	E	Ü	H	A

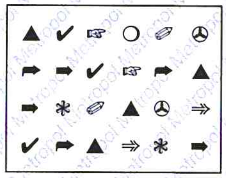
D)

Ü	S	H	R	N	E
T	A	E	D	S	D
K	R	H	T	K	S
D	N	E	Ü	H	A

E)

Ü	S	H	R	N	E
T	E	A	D	S	D
K	R	H	T	S	K
D	E	N	Ü	H	A

7. I. II.



⇒ ?

A)

0	1	6	9	7	8
2	4	1	6	2	0
4	5	8	0	7	3
1	2	0	3	5	4

B)

0	1	6	9	8	7
2	4	1	6	2	0
4	5	8	0	7	3
1	2	0	3	5	4

C)

0	1	6	9	8	7
2	4	1	6	2	0
4	5	0	8	7	3
1	2	0	3	5	4

D)

0	1	6	9	8	7
2	4	1	6	2	0
4	5	8	0	7	3
1	0	2	3	5	4

E)

0	1	6	9	8	7
2	4	1	6	2	0
4	5	8	0	7	3
2	1	0	3	5	4

8. I. II.

S	K	L	M	A
B	R	U	M	E
A	L	S	C	B
U	E	C	R	K

⇒ ?

A)

5	1	2	4	6
7	3	0	4	8
2	6	3	9	7
0	8	9	3	1

B)

5	1	2	4	6
7	3	0	4	8
2	5	6	9	7
0	8	9	3	1

C)

5	1	2	4	6
7	3	0	4	8
2	6	3	7	9
0	8	9	7	1

D)

5	1	2	4	6
7	3	0	4	8
6	2	5	9	7
0	8	9	3	1

E)

5	1	2	4	6
7	3	0	4	8
6	2	5	8	9
0	8	1	9	3

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	C	B	C	B	C	B	D

1.

I.	II.
△ ✚ ○ ✘ ❑ ▦	
☺ ● ➔ ✘ ☆ ✚	
☎ ❑ △ ⬇ ⬅ ✘	⇒ ☆ ✚ ● ☺ ▦ △ = ?
☆ ✚ ● ☺ ▦ △	
⬅ ☺ ❑ ➔ ✘ ✚	

A) PKEMHC B) UİZROE C) HRKSCİ
D) EİBCKO E) RZSCUİ

2.

I.	II.
✪ ❑ ✚ ✘ ○ 🕮	
❑ ▽ ○ ▲ ⇩ ▽	
⇧ ▼ ■ ● ✪ ▽	⇒ ✚ ⇧ ❑ 🕮 ⇧ ✪ = ?
✚ ⇧ ❑ 🕮 ⇧ ✪	
■ ▽ △ ○ ⇩ ❑	

A) SGOIGM B) YVZWTO C) OVWZTV
D) GDYPMV E) MOSCWI

3.

I.	II.
● ⦿ ➔ ▲ △	1 3 9 4 8
⦿ ➔ ● ❋ ○	3 5 7 3 1
↕ ⨯ ⬇ △ ●	9 1 3 5 7
➔ ▣ △ ➔ ⦿	2 0 6 7 9
△ ● ○ ⬇ ▲	7 9 8 6 2

⇒ ⦿ ➔ ● ❋ ○ = ?

A) 20679 B) 79862 C) 13948
D) 91357 E) 35731

4.

I.	II.
M K H R S E	❑ ➡ ✿ ✻ ✔ ✂
L A U S R H	✻ ✔ ▲ ❑ ➡ ✂
T H K H N A	✲ ☮ ✿ ➡ ❑ ▲
K M Z N A S	⇛ ▲ ✔ ▲ ➦ ☮
R S U M K E	✔ ✻ ☞ ➡ ☮ ➡

⇒ ✿ ✻ ✔ ▲ ❑ = ?

A) LUMHK B) LUMKH C) LUHKR
D) UMKHR E) ULMKR

5.

I.	II.
87564	
46578	
65748	⇒ **57845 = ?**
57476	
57845	

A) ATESR B) TESEA C) RETAS
D) SATER E) TERST

6.

I.	II.
12345	
23145	
32131	⇒ **21345 = ?**
52142	
21345	

A) DTBAO B) TDBTB C) DBTAO
D) BDTAO E) ODBAD

7. I. ⇒ II.

→	↑	↓	●
●	↑	→	●
↑	●	↓	↑
●	→	■	↑

?

A)
ASME
ESAE
SEME
EATS

B)
ASMA
ESAE
SEMS
EATS

C)
AMSE
ESAE
SEMS
EATS

D)
ASME
ESAE
SEMS
EATS

E)
ASME
ESDE
SEMS
SDTE

8. I. ⇒ II.

●	❑	✖	✚
✖	❑	●	✚
✚	❑	●	✖

?

A)
KARE
EARK
EAKR

B)
KARE
RAKE
EAKR

C)
KARE
KAER
AREK

D)
KERA
RAKE
EAKR

E)
KREN
RAKE
EAKR

9. I. ⇒ II.

KEDİ
İNEK
NİNE
SENİ

?

A)

■	●	○	❑
❑	✱	■	●
✱	❑	✱	■
✎	■	✱	❑

B)

○	■	○	❑
❑	✎	■	●
✱	❑	✱	■
✱	■	✱	❑

C)

●	■	○	❑
❑	✱	■	●
✱	❑	✎	■
✎	■	✱	❑

D)

●	■	○	❑
❑	✱	■	●
✱	❑	✱	■
✱	■	✎	❑

E)

●	■	○	❑
❑	✱	■	●
✱	❑	✱	■
✎	■	✱	❑

10. I. ⇒ II.

SİMA
MASA
SAMİ
ASMA

?

A)

→	←	↑	↓
↑	↓	→	↓
→	↓	↑	←
↓	→	↑	↓

B)

→	←	↑	↓
↑	↓	→	↑
→	↓	↑	←
↓	→	↑	↓

C)

→	←	↑	↓
↑	↓	→	↓
→	↓	↑	←
↑	→	↑	↓

D)

→	←	↑	↓
↑	↓	→	↓
→	↓	↑	←
↑	→	↓	↑

E)

→	←	↑	↓
↑	↓	→	↓
→	↓	↑	→
↑	→	↓	↓

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
B	A	C	D	E	C	D	B	E	A

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1.

I.	II.
8 2 7 6 5 3	✔ ▲ ✐ ☞ ✻ ✇
3 1 7 4 1 2	☞ ○ ✻ ✇ ➡ ▲
6 4 5 3 1 2	✔ ▲ ➡ ✐ ☞ ✘
8 2 1 7 6 9	✘ ▲ ○ ✔ ✇ ✻
9 2 4 8 3 5	✇ ➡ ✐ ○ ➡ ▲

⇒ **342867 = ?**

A) ➡ ✇ ○ ▲ ✐ ✔
B) ✇ ▲ ○ ✔ ☞ ➡
C) ✇ ○ ▲ ✔ ☞ ✐
D) ✇ ○ ▲ ✔ ✐ ➡
E) ✔ ☞ ✻ ➡ ✐ ▲

2.

I.	II.
8 2 7 6 1 8	▲ ✻ ➡ ○ ✘ ✐
9 2 1 6 5 4	✘ ✐ ➡ ○ ✻ ✘
4 1 7 6 8 2	✻ ✘ ➡ ☞ ✘ ✻
1 8 7 9 8 1	☞ ✐ ✻ ○ ✇ ▲
4 3 2 6 5 9	▲ ✔ ✐ ○ ✇ ☞

⇒ ✐ ○ ✔ ✘ ▲ ✇ = ?

A) 263845
B) 263841
C) 263813
D) 263514
E) 253413

3.

I.	II.
8 2 9 7 6 5	✘ ☞ ○ ➡ ▲ ✐
2 5 6 4 3 1	✇ ✻ ➡ ▲ ✐ ✔
1 4 7 6 5 3	☞ ✻ ➡ ✔ ✻ ✻
3 2 1 6 7 8	✔ ☞ ✇ ▲ ➡ ✘
2 4 7 3 4 4	☞ ✐ ▲ ✻ ✔ ✇

⇒ **342196 = ?**

A) ✔ ☞ ▲ ➡ ✐ ○
B) ○ ▲ ✔ ☞ ➡ ▲
C) ✔ ✻ ☞ ✇ ▲ ○
D) ✔ ✻ ☞ ✇ ➡ ✐
E) ✔ ✻ ☞ ✇ ○ ▲

4.

I.	II.
3 2 1 7 6 5	✘ ✻ ○ ✐ ✔ ✻
8 4 3 1 9 1	✔ ✘ ✻ ☞ ▲ ✐
2 1 4 5 3 1	✇ ○ ✔ ✻ ➡ ✻
3 1 4 7 5 8	➡ ✻ ✘ ▲ ○ ☞
9 1 2 6 4 7	✔ ✻ ○ ☞ ✐ ✇

⇒ ✔ ✻ ▲ ○ ✐ ➡ = ?

A) 361759
B) 316459
C) 436178
D) 316458
E) 316435

5.

I.

✘	✐	✔	✚	○
❤	➡	❂	✔	✳
✚	✘	✚	❤	✐
○	✳	❂	➡	✔

⇒ II.

?

A)

3	4	9	5	1
7	2	8	9	3
5	3	5	7	4
1	6	8	2	9

B)

3	4	9	5	1
2	7	8	9	6
5	3	5	7	4
1	6	8	2	9

C)

3	4	9	5	1
7	2	8	9	6
5	3	5	7	4
1	6	8	2	9

D)

3	4	9	5	1
7	2	8	9	6
5	3	5	7	4
1	6	2	8	9

E)

3	4	9	5	1
7	8	2	9	6
5	3	5	7	4
1	6	8	2	9

6. I. ⇒ II.

A	L	S	P	K	E
U	C	A	B	M	U
M	B	P	L	U	C
K	E	M	S	P	S

⇒ ?

A)

0	5	6	4	7	2
2	9	0	8	1	2
1	8	4	5	2	9
7	3	1	6	4	6

B)

0	5	6	4	7	2
2	9	0	8	1	2
1	8	4	5	2	9
3	7	1	6	4	6

C)

0	5	6	4	7	2
2	0	9	8	1	2
1	8	4	5	2	9
7	3	1	6	4	6

D)

0	5	6	4	7	3
2	9	0	8	1	2
1	8	4	5	2	9
7	3	1	6	4	6

E)

0	5	6	4	7	3
2	9	0	1	8	2
1	8	4	5	2	9
7	3	1	6	4	6

7. I. ⇒ II.

✔	☞	✻	✐	➡	⇛
❑	▲	✻	▲	➦	✐
➡	✇	✔	⇛	☞	❑
▲	❑	✐	☞	✇	➡

⇒ ?

A)

1	8	2	4	7	5
3	6	2	9	6	4
7	0	1	5	8	3
6	3	4	2	0	7

B)

1	2	2	4	7	5
3	6	2	6	9	4
7	0	1	5	2	3
6	3	4	2	0	7

C)

1	2	8	4	7	5
3	2	6	6	9	4
7	0	1	5	8	3
1	3	4	2	0	7

D)

1	8	2	4	7	5
3	6	2	6	9	4
7	0	1	5	8	3
6	3	4	8	0	7

E)

4	1	2	7	4	5
3	6	2	6	9	4
7	0	1	5	8	3
6	3	4	2	0	7

8.

I.	II.
K 8 B A	1 8 L F
F D 9 0	6 9 0 7
C M N B	E F 8 1
3 2 K L	8 K 7 5
L K 1 2	2 4 M N

⇒ **BCD15 = ?**

A) 764LA B) 643AL C) 746LA D) 312MN E) 764LN

9. **I.** FARGO ≡ 37924

II. G4F3G2 ≡ ?

A) 2O3F2G B) 2OF3G2 C) 7O3F2G D) 2O3F4G E) 2O3F9A

10.

I.	II.
A D A M	2 3 1 8
D A R K	5 8 9 4
D A R B	8 5 8 0
C E F A	5 8 9 7

⇒ **CEFA = ?**

A) 5894 B) 8580 C) 7508 D) 5897 E) 2318

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	A	E	B	C	D	D	A	A	E

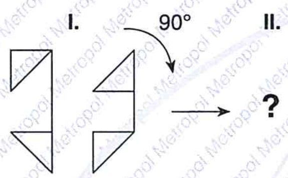
BÖLÜM 02 CHAPTER

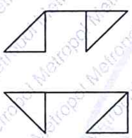
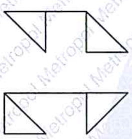
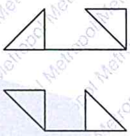
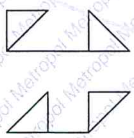
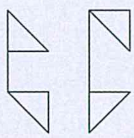
ŞEKİL BAĞINTILARI
FIGURE RELATIONS

Aşağıdaki sorularda verilen şekiller ok yönünde ve belirtilen derecelerde döndürüldüğünde oluşan şekilleri bulunuz.

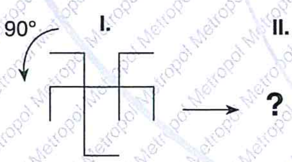
In the following questions, find the rotation view of the given figure in the specified direction and angle.

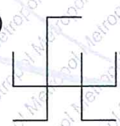
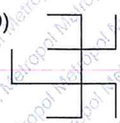
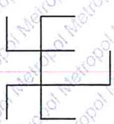
1.



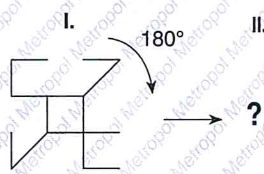
A) 
B) 
C) 
D) 
E) 

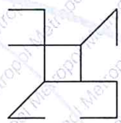
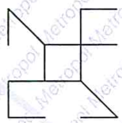
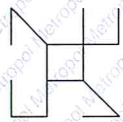
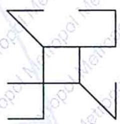
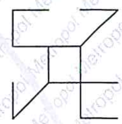
2.



A) 
B) 
C) 
D) 
E) 

3.



A) 
B) 
C) 
D) 
E) 

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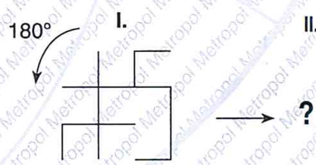
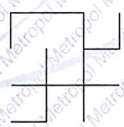
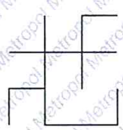
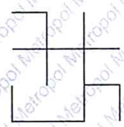
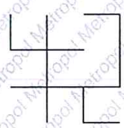
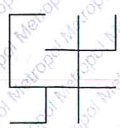


A) 
B) 
C) 
D) 
E) 

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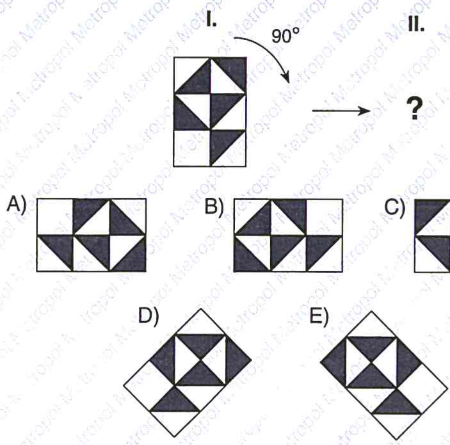

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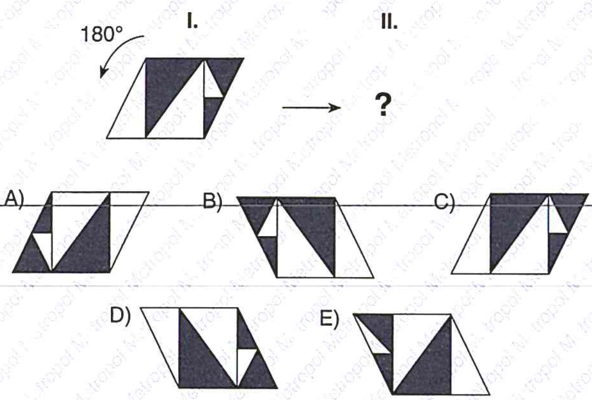

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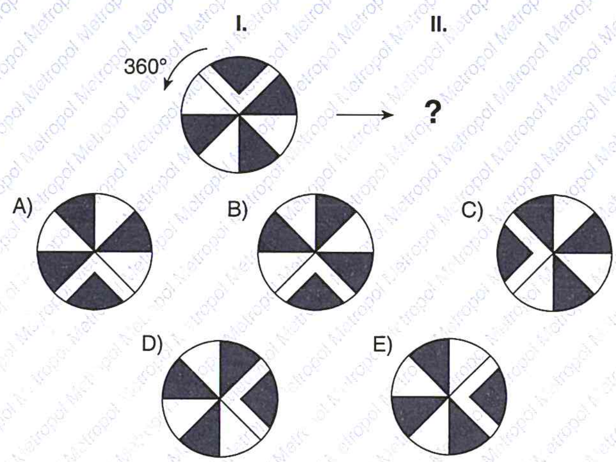

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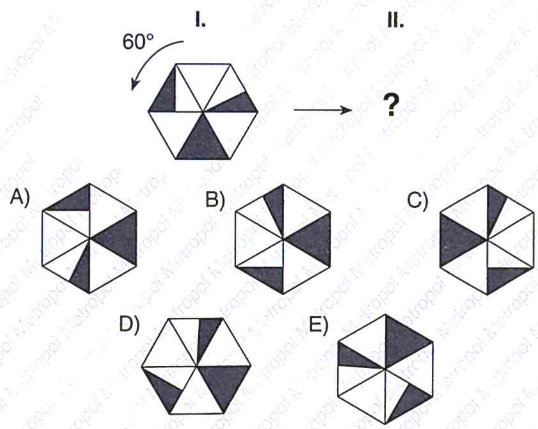


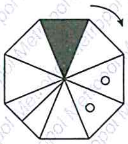
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	E	A	E	A	A	A	D

Aşağıdaki sorularda verilen şekiller ok yönünde ve belirtilen derecelerde döndürüldüğünde oluşan şekilleri bulunuz.

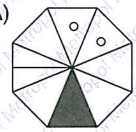
In the following questions, find the rotation view of the given figure in the specified direction and angle.

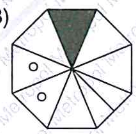
1. I. II.

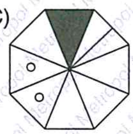


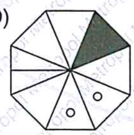
45°

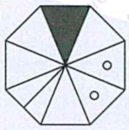
→ ?

A) 

B) 

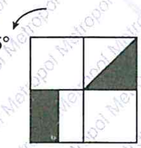
C) 

D) 

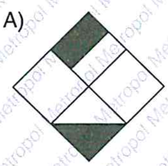
E) 

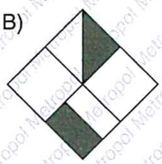
2. I. II.

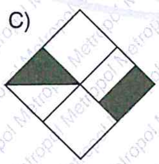
135°



→ ?

A) 

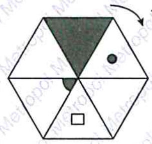
B) 

C) 

D) 

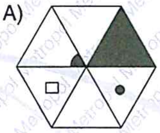
E) 

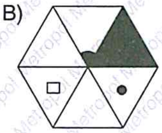
3. I. II.

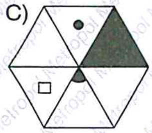


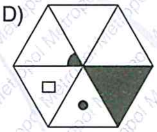
780°

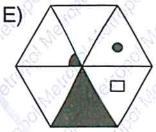
→ ?

A) 

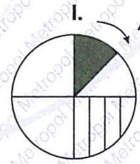
B) 

C) 

D) 

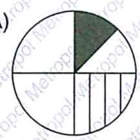
E) 

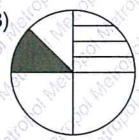
4. I. II.

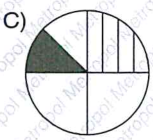


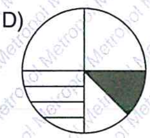
450°

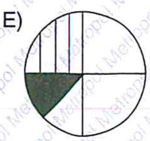
→ ?

A) 

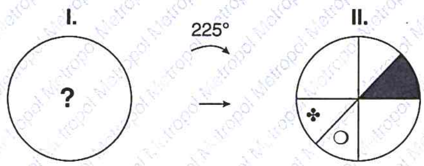
B) 

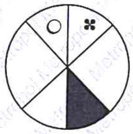
C) 

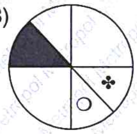
D) 

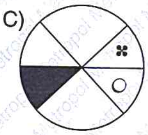
E) 

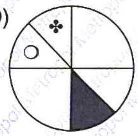
5.

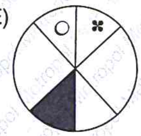


A) 

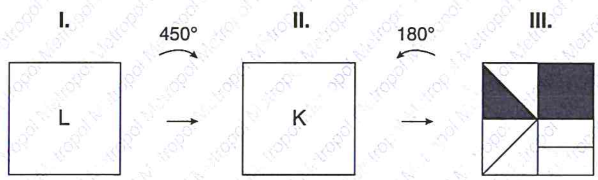
B) 

C) 

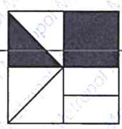
D) 

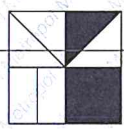
E) 

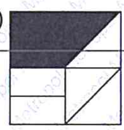
6.

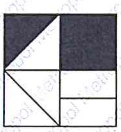


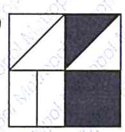
$\Rightarrow L = ?$

A) 

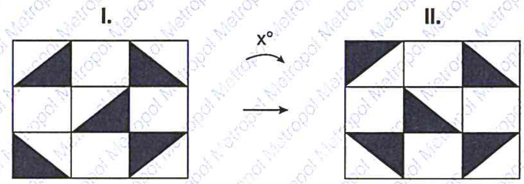
B) 

C) 

D) 

E) 

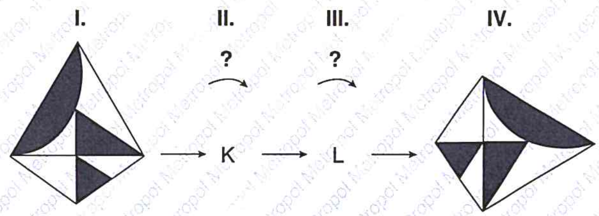
7.



$\Rightarrow x° \neq ?$

A) 810°
B) 540°
C) 1170°
D) 90°
E) 450°

8.



A) 360°; 180°
B) 90°; 90°
C) 45°; 90
D) 37°; 53°
E) 48°; 132°

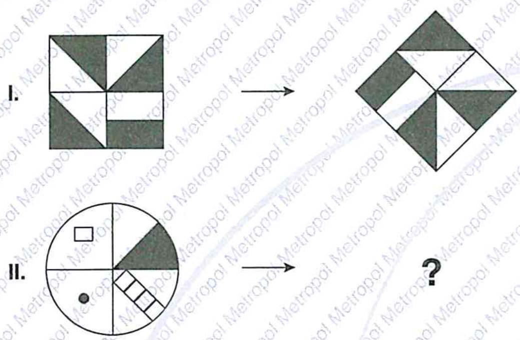
YANITLAR / ANSWERS

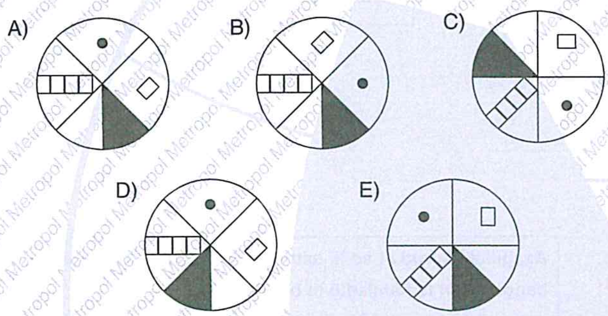
1	2	3	4	5	6	7	8
D	C	A	D	E	B	B	D

Aşağıdaki sorularda I. satırda belirlenen ilişkiye göre II. satırı hangi şeklin tamamladığını bulunuz.

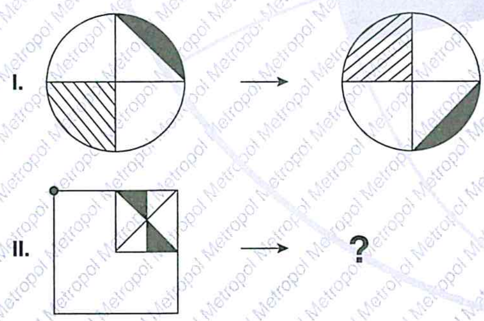
In the following questions, find the figure which completes row II, in accordance with the relation in row I.

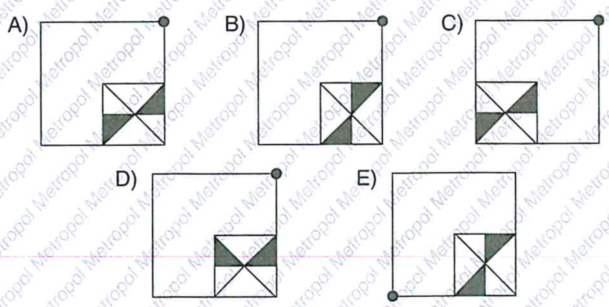
1.



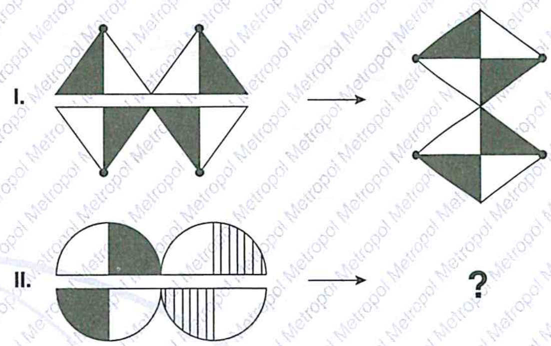


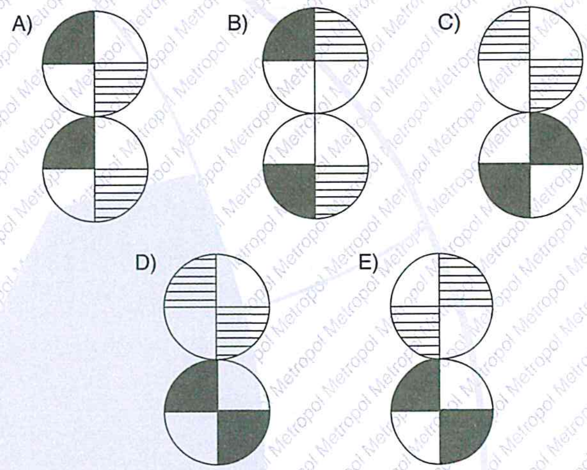
2.



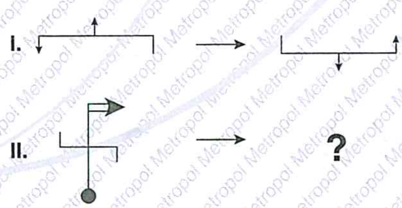


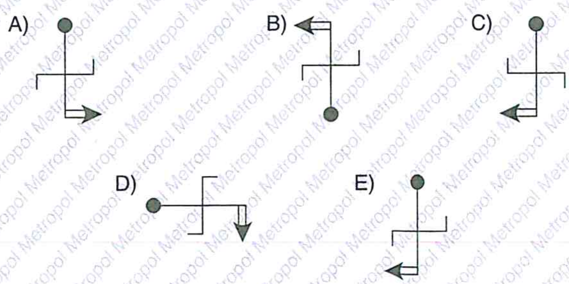
3.



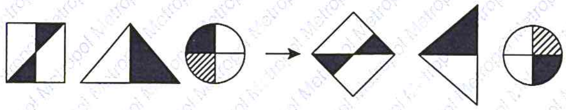


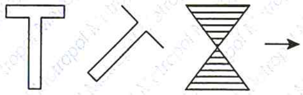
4.

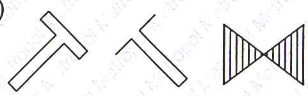


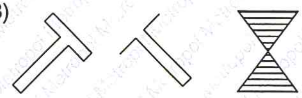


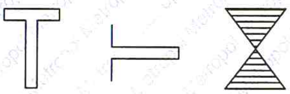
5.

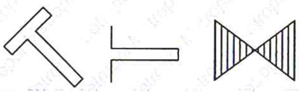
I. 

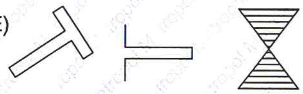
II.  ?

A) 

B) 

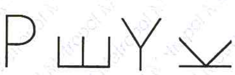
C) 

D) 

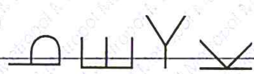
E) 

6.

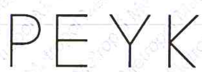
I. 

II.  ?

A) 

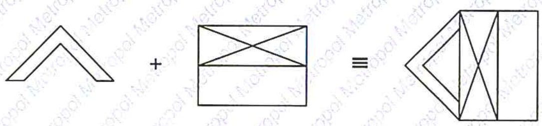
B) 

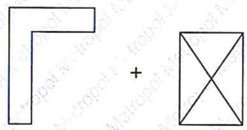
C) 

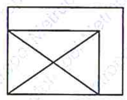
D) 

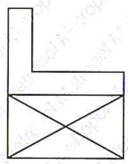
E) 

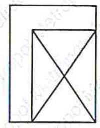
7.

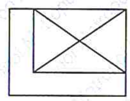
I. 

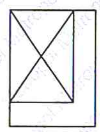
II.  ?

A) 

B) 

C) 

D) 

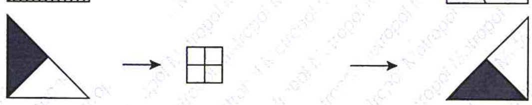
E) 

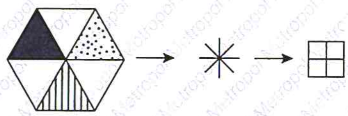
Aşağıdaki soruda I ve II. satırda belirlenen ilişkiye göre III. satırı hangi şeklin tamamladığını bulunuz.

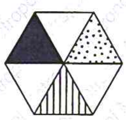
In the following question, find the figure which completes row III, in accordance with the relation in rows I and II.

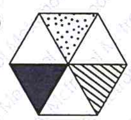
8.

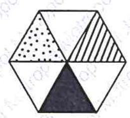
I. 

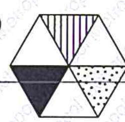
II. 

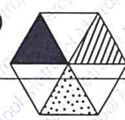
III.  ?

A) 

B) 

C) 

D) 

E) 

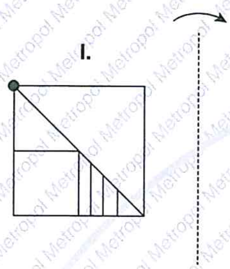
YANITLAR / ANSWERS

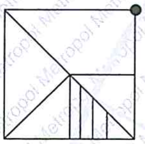
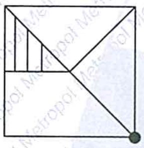
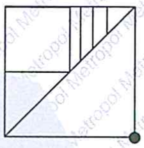
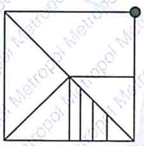
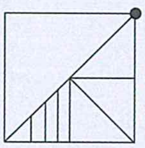
1	2	3	4	5	6	7	8
D	A	D	C	B	C	D	A

Aşağıdaki sorulardaki şekillerin verilen eksenlere göre simetrilerini bulunuz.

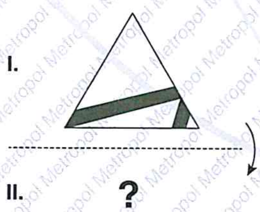
In the following questions, find the symmetry of the figures according to the given axes.

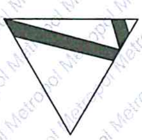
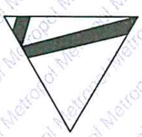
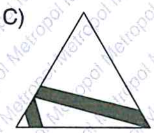
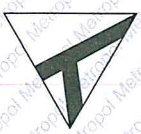
1.



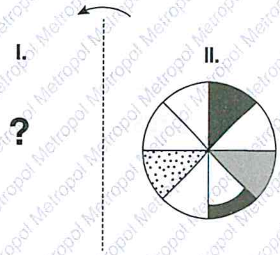
A) 
B) 
C) 
D) 
E) 

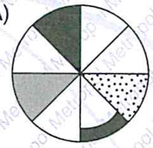
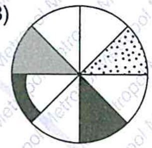
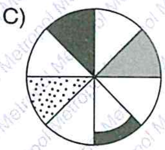
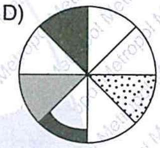
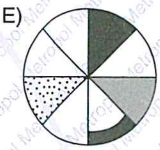
2.



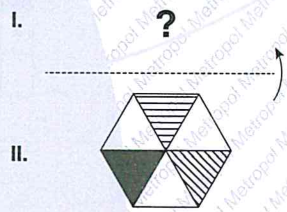
A) 
B) 
C) 
D) 
E) 

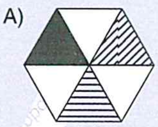
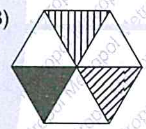
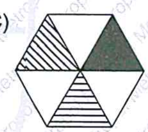
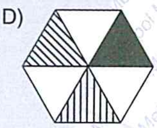
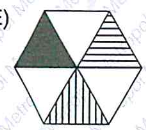
3.



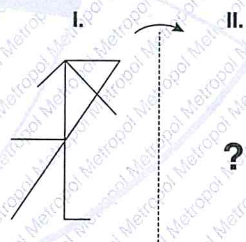
A) 
B) 
C) 
D) 
E) 

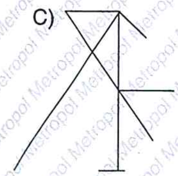
4.



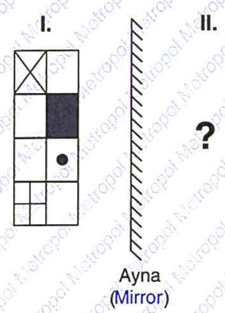
A) 
B) 
C) 
D) 
E) 

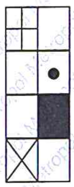
5.



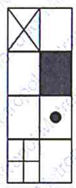
A) 
B) 
C) 
D) 
E) 

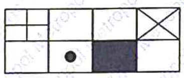
6.

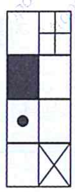


A) 

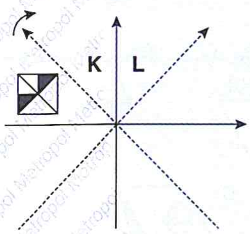
B) 

C) 

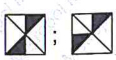
D) 

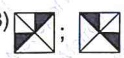
E) 

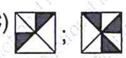
7.

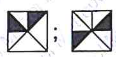


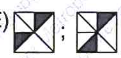
$\Rightarrow$ **K; L = ?; ?**

A) 

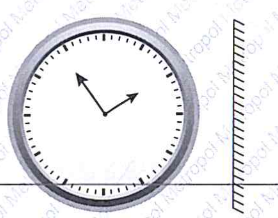
B) 

C) 

D) 

E) 

8.



?

Yukarıdaki saatin aynadaki görüntüsü saat kaçı gösterir?

What time would the mirror image of the clock above show?

A) 9 : 55 B) 10 : 05 C) 10 : 55

D) 11 : 10 E) 9 : 05

9.

?

Yukarıdaki saatin aynadaki görüntüsü verilmiştir. Buna göre saat kaçtır?

The mirror image of the clock above is as given. Accordingly, what is the actual time?

A) 06 : 50 B) 06 : 10 C) 4 : 10

D) 07 : 10 E) 07 : 50

10.

?

Yukarıdaki saatin aynaya göre simetrisi saat kaçı gösterir?

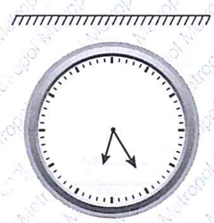
What time would symmetry of the clock above according to the mirror show?

A) 11 : 05 B) 10 : 10 C) 11 : 10

D) 10 : 50 E) 11 : 50

11.

?



Aynadaki görüntüsü şekildeki gibi olan saat kaçı gösterir?

What time would a clock which its mirror image is as shown above indicate?

A) 11 : 00 B) 11 : 05 C) 10 : 55

D) 10 : 50 E) 11 : 50

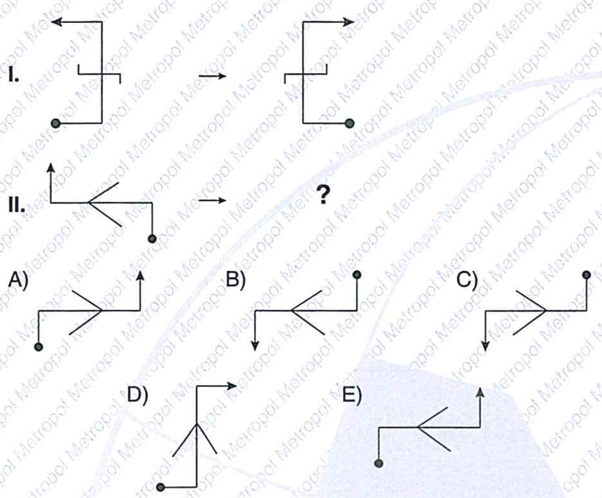
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11
E	A	D	A	D	B	B	B	E	E	B

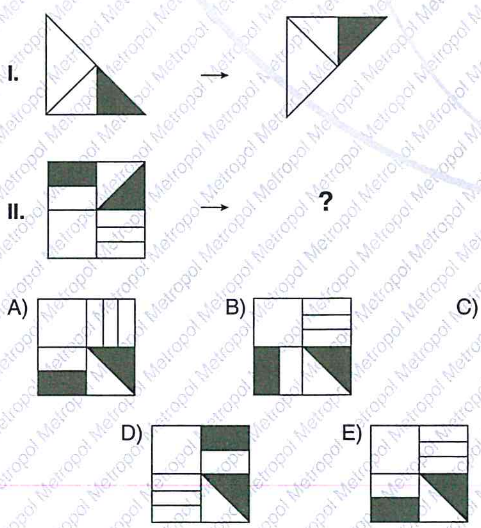
Aşağıdaki sorularda I. satırda belirlenen ilişkiye göre II. satırı hangi şeklin tamamladığını bulunuz.

In the following questions, find the figure which completes row II, in accordance with the relation in row I.

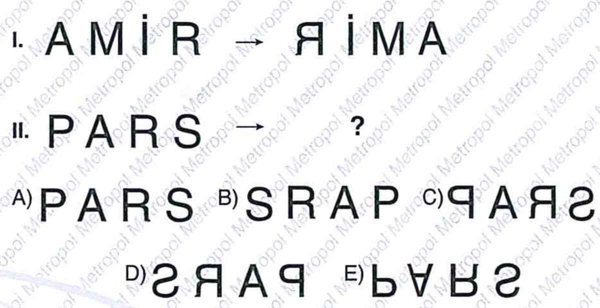
1.



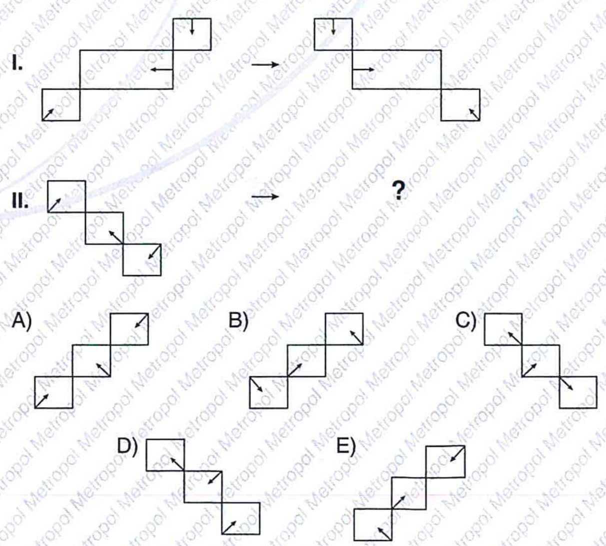
2.



3.

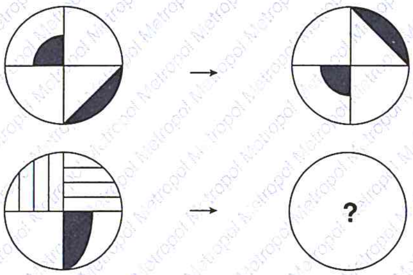


4.

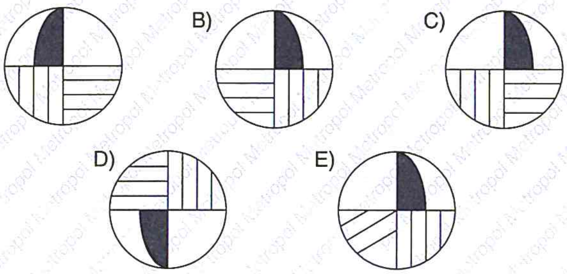


5.

I. II.

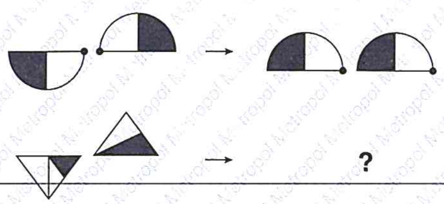


A) B) C) D) E)

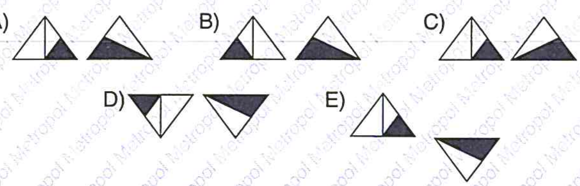


6.

I. II.

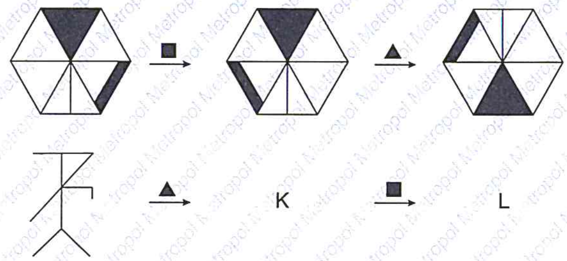


A) B) C) D) E)



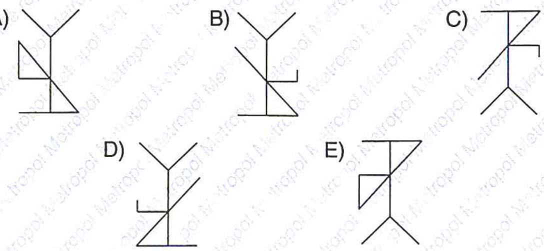
7.

I. II.



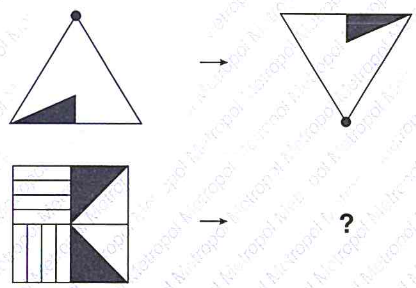
$\Rightarrow L = ?$

A) B) C) D) E)

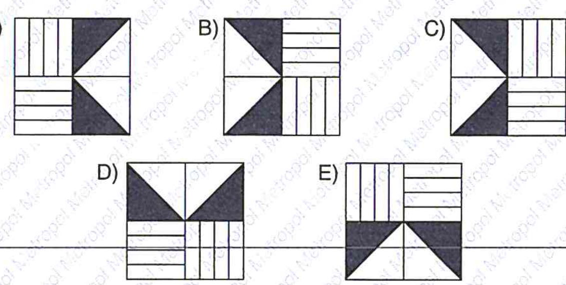


8.

I. II.



A) B) C) D) E)



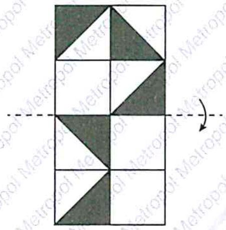
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	E	D	B	C	A	D	C

Aşağıdaki sorularda verilen şekiller gösterilen eksenlere göre katlandığında oluşan şekilleri bulunuz.

Find the figures formed when the figures in of the following questions folded according to the given axes.

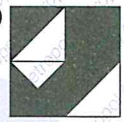
1. I. II.

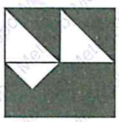


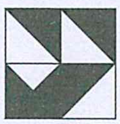
→ ?

A) 

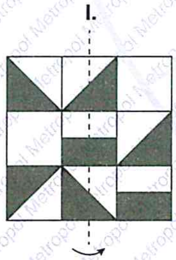
B) 

C) 

D) 

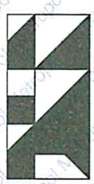
E) 

2. I. II.



→ ?

A) 

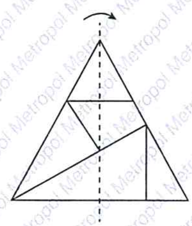
B) 

C) 

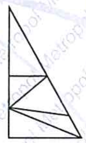
D) 

E) 

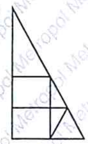
3. I. II.



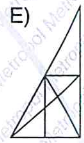
→ ?

A) 

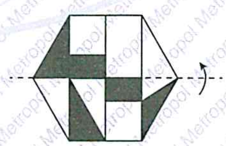
B) 

C) 

D) 

E) 

4. I. II.



→ ?

A) 

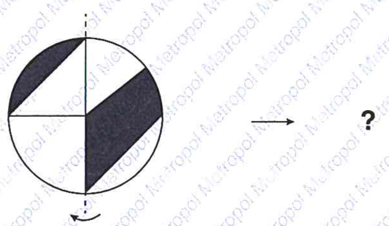
B) 

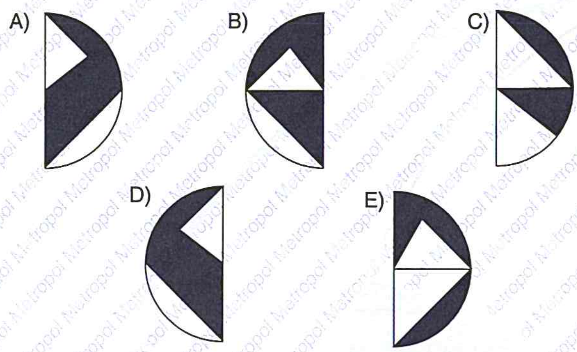
C) 

D) 

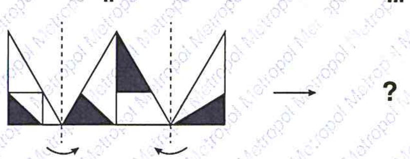
E) 

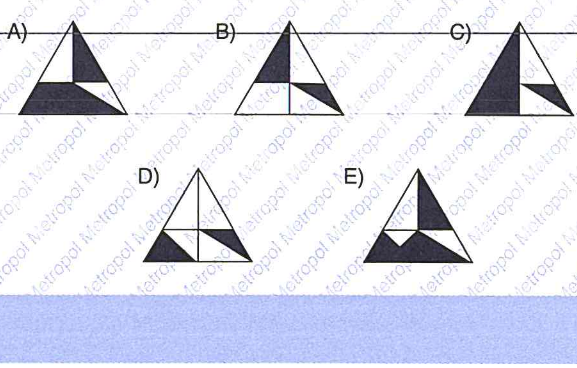
5. I. II.



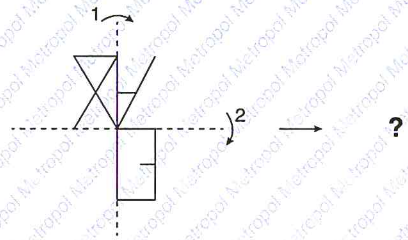


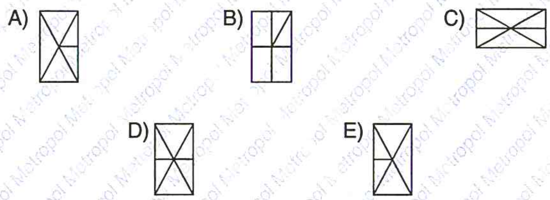
6. I. II.



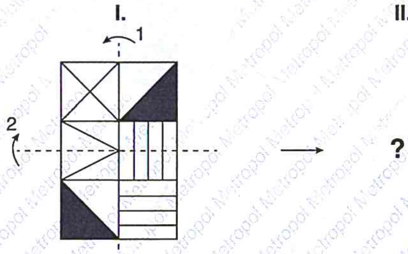


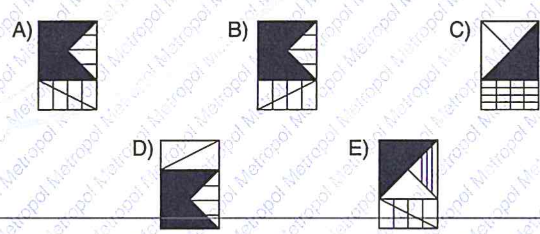
7. I. II.





8. I. II.





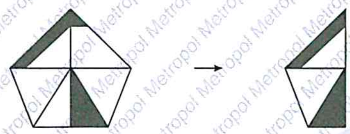
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	A	B	B	D	E	D	A

Aşağıdaki sorularda I. satırda belirlenen ilişkiye göre II. satırı hangi şeklin tamamladığını bulunuz.

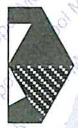
In the following questions, find the figure which completes row II, in accordance with the relation in row I.

1.

I. 

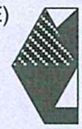
II.  → ?

A) 

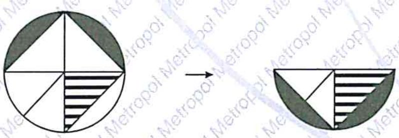
B) 

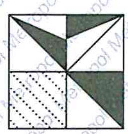
C) 

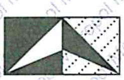
D) 

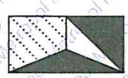
E) 

2.

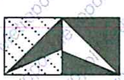
I. 

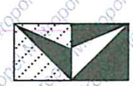
II.  → ?

A) 

B) 

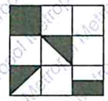
C) 

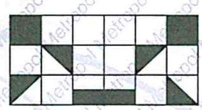
D) 

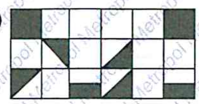
E) 

3.

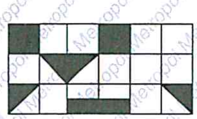
I. 

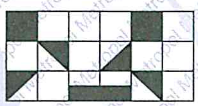
II.  → ?

A) 

B) 

C) 

D) 

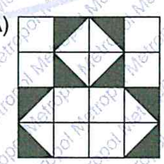
E) 

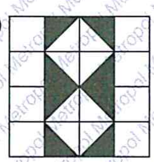
4.

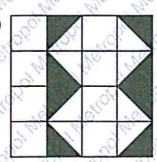
I. 

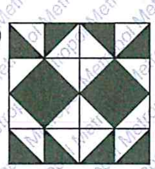
II.  → K → L

⇒ **L = ?**

A) 

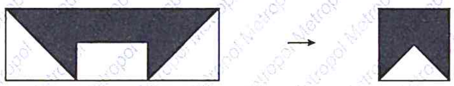
B) 

C) 

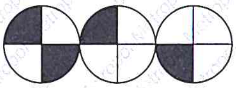
D) 

E) 

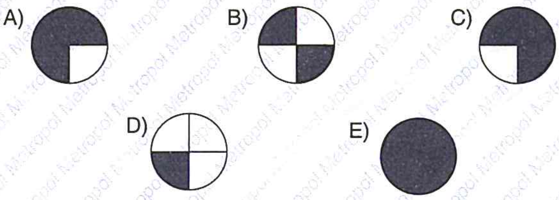
5. I.



II.

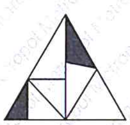


?

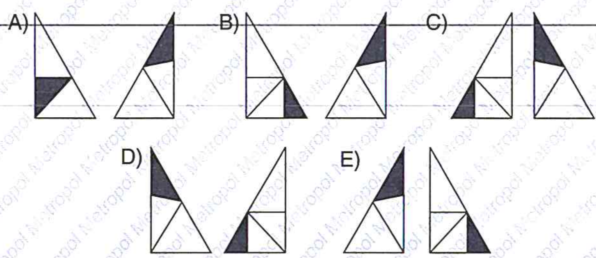


6. I.

II.

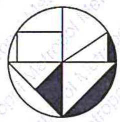


?



7. I.

II.



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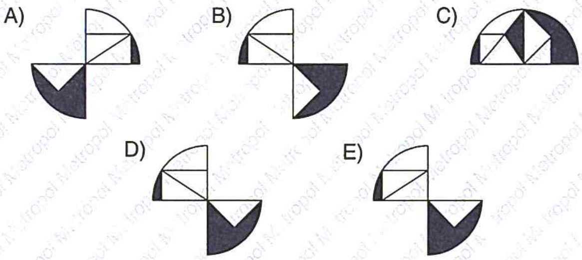
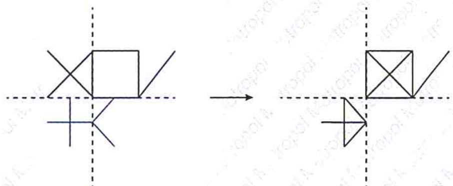


8. I.



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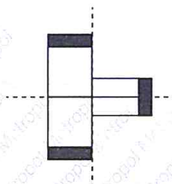

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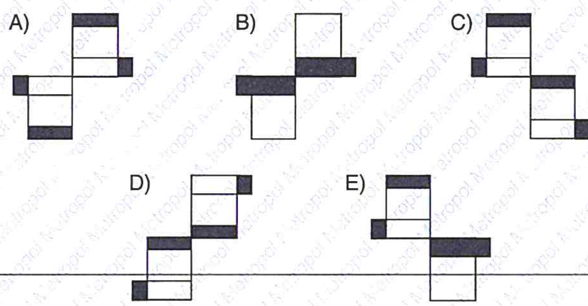
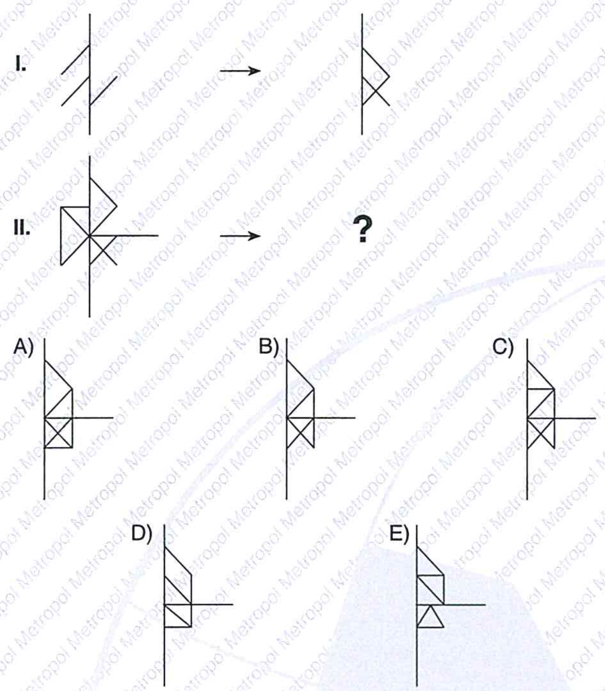


YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	D	C	B	E	B	D	A

1.



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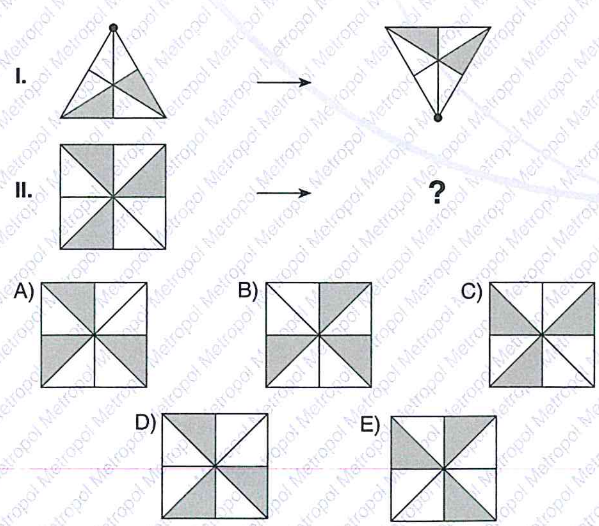

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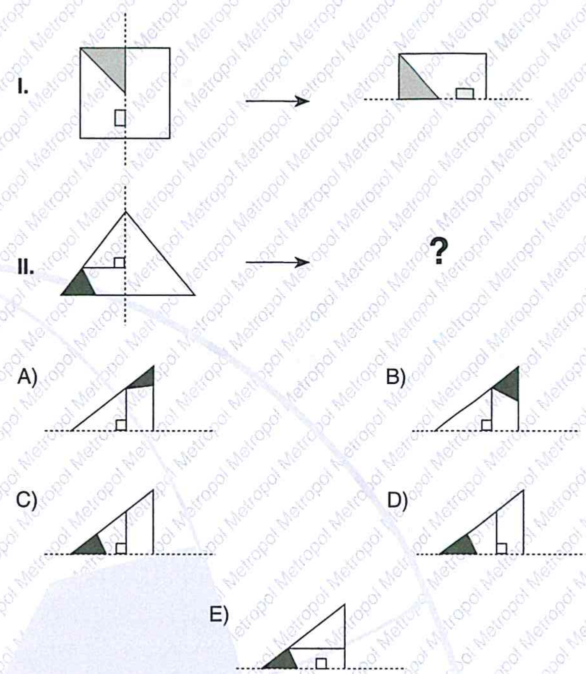

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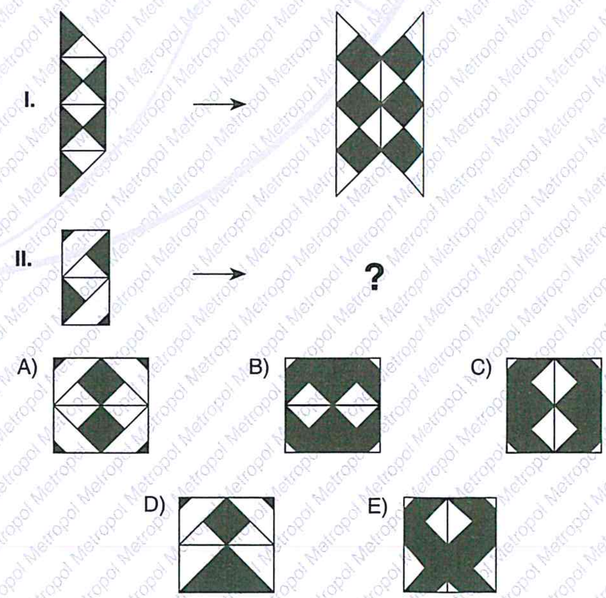
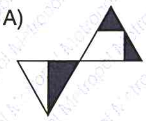
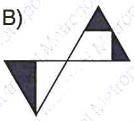


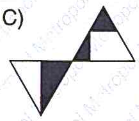
5.

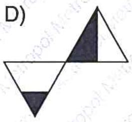
I. 

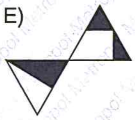
II.  ?

A) 

B) 

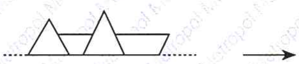
C) 

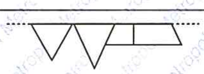
D) 

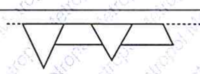
E) 

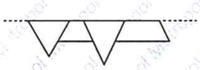
6.

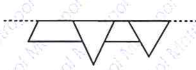
I. 

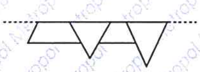
II.  ?

A) 

B) 

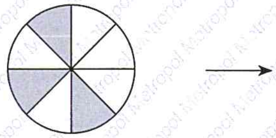
C) 

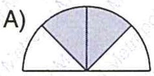
D) 

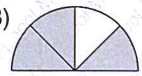
E) 

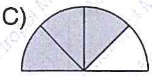
7.

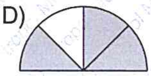
I. 

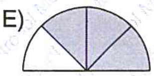
II.  ?

A) 

B) 

C) 

D) 

E) 

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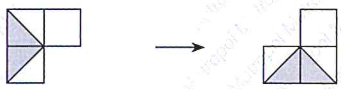
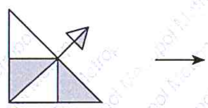
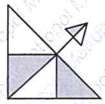
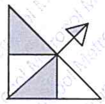
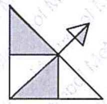
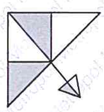
I. 

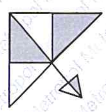
II.  ?

A) 

B) 

C) 

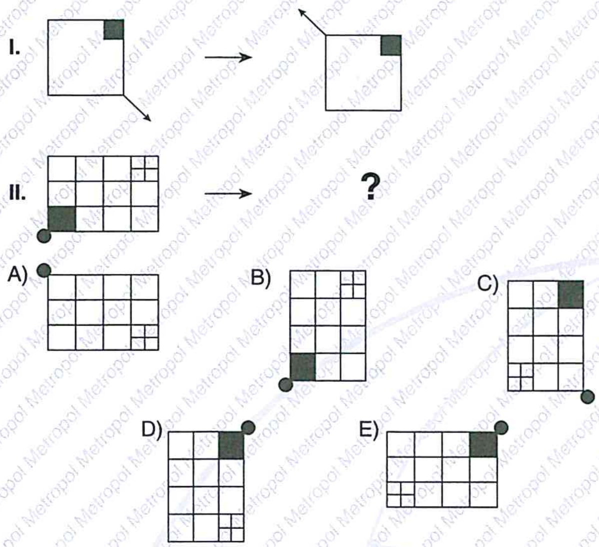
D) 

E) 

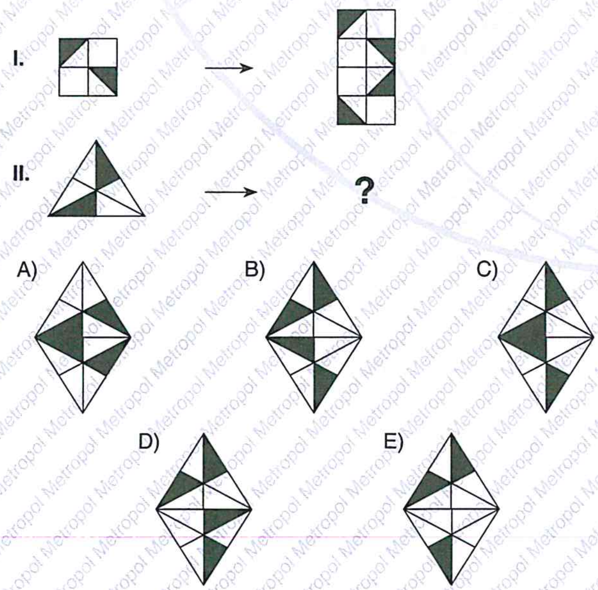
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	D	B	E	A	C	C	B

1.



2.



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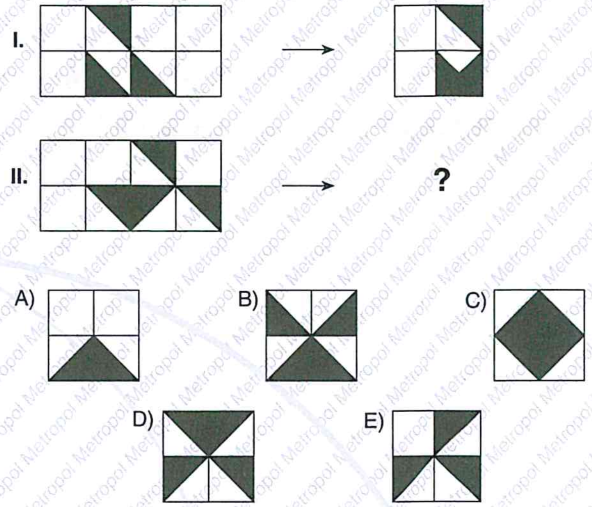

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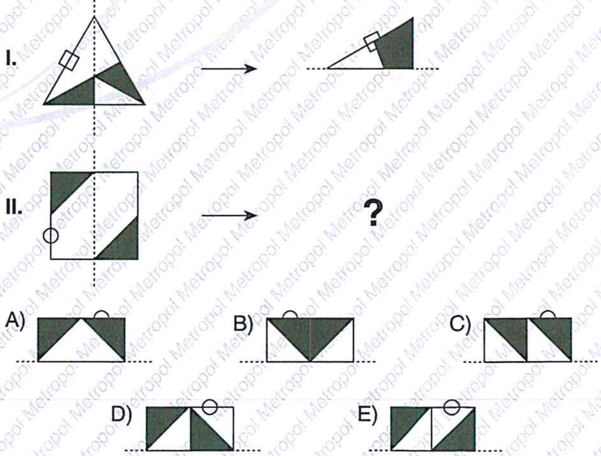

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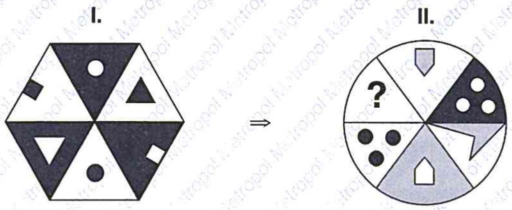

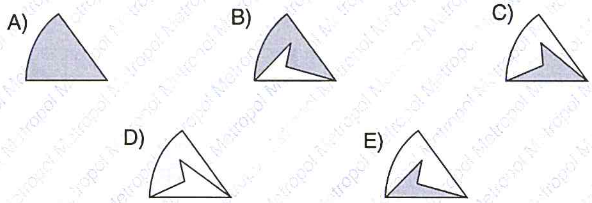

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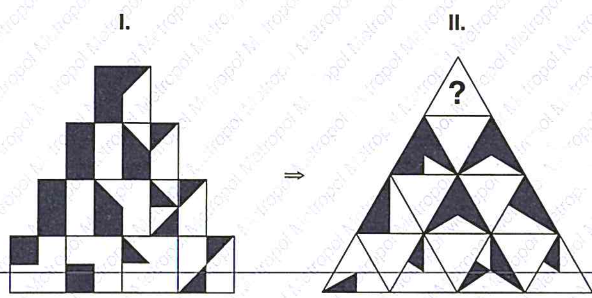

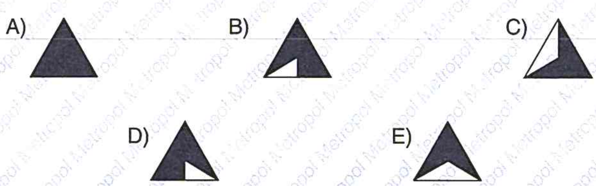

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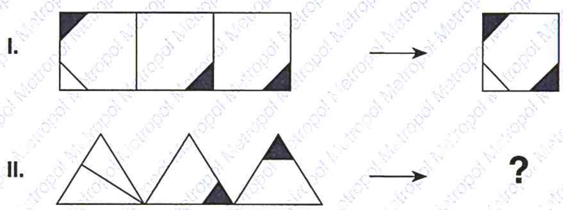

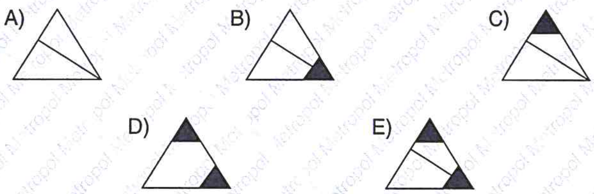

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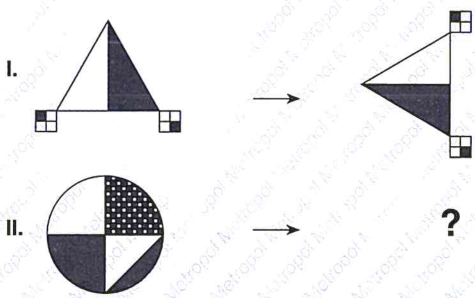

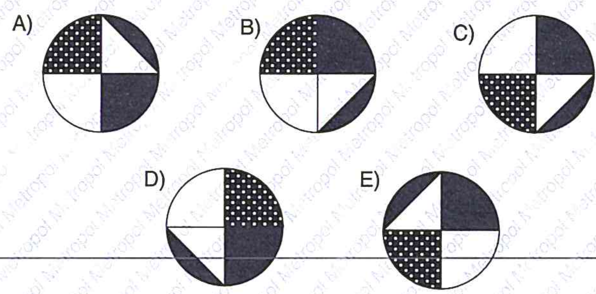

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	C	E	A	B	D	E	C

1. I. ✐ ✈ ✂ ☛ ⇨ ■ → ☛ ⇨ ✈ ✂ ✐

II. ➠ ∞ ❤ ✆ ✻ ■ → ?

A) ∞ ❤ ✆ ✻ ➠
B) ✆ ✻ ∞ ➠ ❤
C) ✆ ✻ ∞ ❤ ➠
D) ✻ ✆ ∞ ❤ ➠
E) ∞ ❤ ➠ ✆ ✻

2. I. K İ L B E ▲ → İ K B E L

II. R A N İ P ▲ → ?

A) A R N İ P
B) A R İ P N
C) R A İ P N
D) A R İ N P
E) A R P İ N

3. I. ❡ ➪ ✺ ❧ ✍ ✼ ● → ✺ ❧ ❡ ➪ ✼ ✍

II. ✘ ✇ ✼ ❢ ✈ ☆ ● → ?

A) ✼ ❢ ✘ ✇ ☆ ✈
B) ✼ ❢ ✘ ✇ ✈ ☆
C) ✘ ✇ ✼ ❢ ☆ ✈
D) ❢ ✼ ✘ ✇ ☆ ✈
E) ✼ ❢ ✇ ✘ ☆ ✈

4. I. A L İ K A T ☆ → L A İ A K T

II. İ N E P A L ☆ → ?

A) İ N E A P L
B) N İ E P A L
C) N İ E A L P
D) N İ E A P L
E) N E İ A P L

5. I. Z A M D A L ● → L A D M A Z

II. ❖ ✯ † ✢ ✗ ♠ ● → ?

A) ✗ ✢ † ✯ ❖ ♠
B) ❖ ♠ ✗ ✢ † ✯
C) ♠ ✗ ✢ † ❖ ✯
D) ♠ ✢ † ✯ ❖ ✗
E) ♠ ✗ ✢ † ✯ ❖

6. I. N İ L Y U M ❣ → İ L N U M Y

II. U L A P İ N ❣ → ?

A) L U A İ N P
B) L A U İ N P
C) L A U N İ P
D) A L U İ N P
E) L A U N İ P

7. I. ♠ ✺ ➭ ✔ ❄ ❀ ▼ → ✺ ♠ ➭ ❄ ✔ ❀

II. ♦ ❤ ☆ ✌ ✘ ✂ ▼ → ?

A) ♦ ❤ ☆ ✘ ✌ ✂
B) ❤ ♦ ☆ ✘ ✂ ✌
C) ❤ ♦ ☆ ✘ ✌ ✂
D) ❤ ♦ ✘ ☆ ✌ ✂
E) ✂ ❤ ♦ ☆ ✘ ✌

8. I. R E A D U N ✿ → R N U D A E

II. H Ü L Y E M ✿ → ?

A) H M E Y L Ü
B) M H E Y L Ü
C) H E M Y L Ü
D) H Ü E Y L M
E) H M Y E L Ü

9. I. D E F T E R ✪ → F E D E T R

II. ➶ ➚ ➘ ➴ ✞ ❢ ✪ → ?

A) ➚ ➘ ➶ ✞ ➴ ❢
B) ➘ ➚ ➶ ✞ ➴ ❢
C) ➘ ➚ ✞ ➶ ➴ ❢
D) ➘ ➚ ➶ ✞ ❢ ➴
E) ➶ ➘ ➚ ✞ ➴ ❢

10. I. Z I M L E T ❖ → M I Z E L T

II. M İ K A İ L ❖ → ?

A) M İ K İ A L
B) K İ M A İ L
C) K İ M İ A L
D) M K İ A İ L
E) K İ M İ L A

11. I. ❒ ❊ ✗ ✌ ✔ ✯ ♣ → ❊ ✗ ❒ ✔ ✯ ✌

II. T I N L İ M ♣ → ?

A) N I T İ M L
B) I N İ T M L
C) I N T L İ M
D) T I N İ M L
E) I N T İ M L

12. I. O M L E T ♥ → E T M L O

II. R Ü L İ M ♥ → ?

A) M İ Ü L R
B) İ M R Ü L
C) Ü İ M L R
D) İ M Ü L R
E) İ M L Ü R

13. I. ⌛ 🖰 ☺ 😐 ☹ ❄ ◆ → ☺ 😐 ☹ ⌛ 🖰 ❄

II. ❁ 🌢 ✈ 🕯 ⚐ ♒ ◆ → ?

A) 🕯 ✈ ⚐ ❁ 🌢 ♒
B) ✈ 🕯 ⚐ ❁ 🌢 ♒
C) ✈ 🕯 ❁ ⚐ 🌢 ♒
D) ✈ 🕯 ⚐ ❁ ♒ 🌢
E) ✈ ⚐ 🕯 ❁ 🌢 ♒

14. I. P I R A S A ❖ → I P A R A S

II. U L İ M Y E ❖ → ?

A) L U M İ E Y
B) L U İ M E Y
C) L U M İ Y E
D) U L M İ E Y
E) L M U İ E Y

15. I. ☠ 💣 ♦ ◎ ◉ ⇳ ❒ → ⇳ ♦ ◎ ☠ ◉ 💣

II. 💻 ✋ ⌖ ✞ ☽ ⊘ ❒ → ?

A) ⊘ ⌖ ✞ ☽ 💻 ✋
B) ⌖ ⊘ ✞ 💻 ☽ ✋
C) ⊘ ⌖ ✞ 💻 ☽ ✋
D) ⊘ ⌖ ✞ 💻 ✋ ☽
E) ⊘ ⌖ 💻 ☽ ✋ ✞

16. I. C İ Y L A N ✤ → N A İ C Y L

II. E R Ü G İ L ✤ → ?

A) İ L R E Ü G
B) L İ R E Ü G
C) L İ E R Ü G
D) R E Ü G İ L
E) L İ R E G Ü

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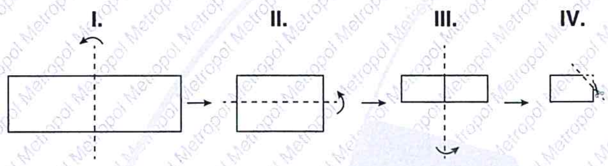
YANITLAR / ANSWERS

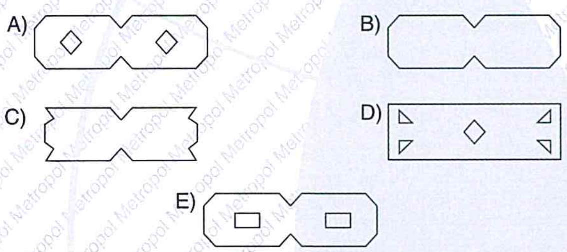
1	C	5	E	9	B	13	B
2	B	6	B	10	C	14	A
3	A	7	C	11	E	15	C
4	D	8	A	12	D	16	B

Aşağıdaki sorularda, I. adımlarda verilen şekiller belirtilen eksenlerden sırayla katlanarak son adımlardaki şekiller elde ediliyor ve ardından işaretli bölgeler kesilerek çıkartılıyor. Buna göre, son adımlarda oluşan şekiller konumları değiştirilmeden katlandıkları eksenlerden açık hale getirildiklerinde hangi şekillerin oluştuğunu bulunuz.

In the following questions, figures given is step I are folded according to the given axes in sequence to form the figure in last step, and then marked areas get cut and removed. Accordingly, find the figures formed by unfolding the figures of last step according to the given folding axes without changing the position of the figures.

1.





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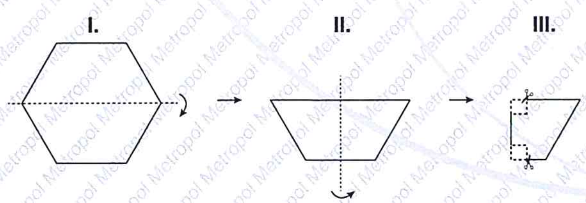

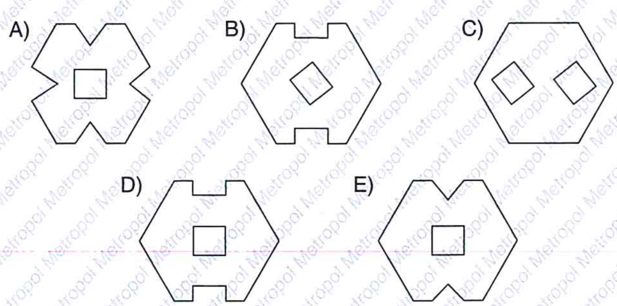

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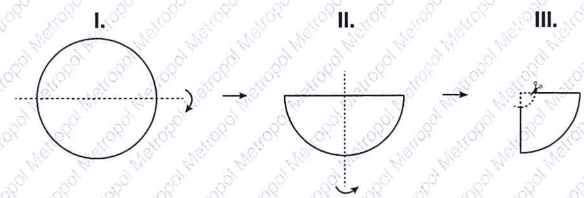

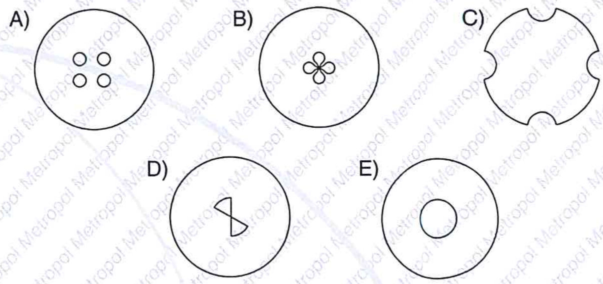

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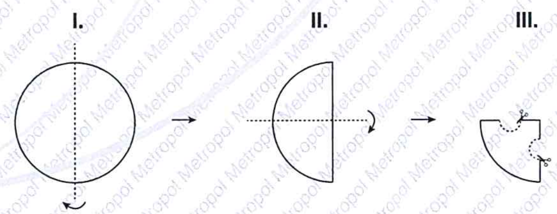
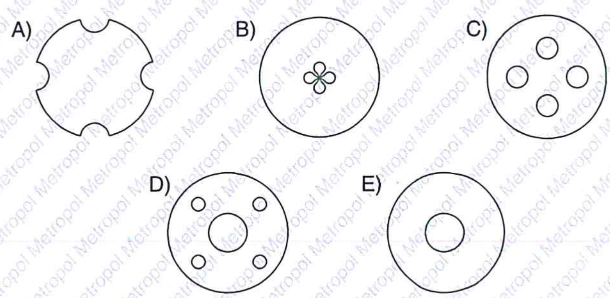
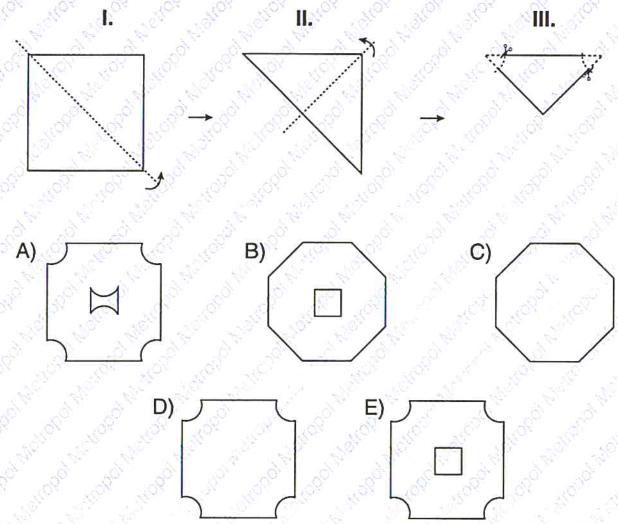
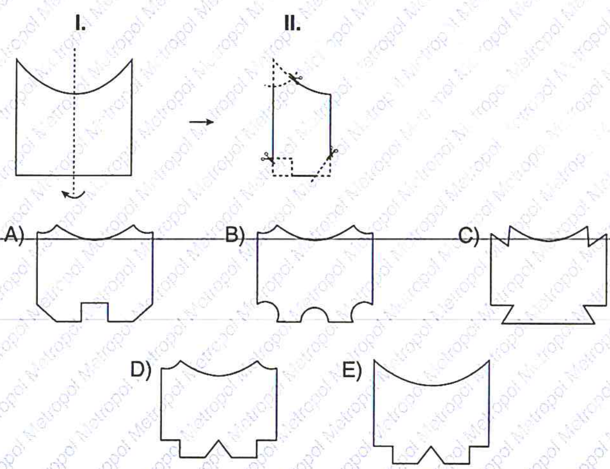




5.



6.



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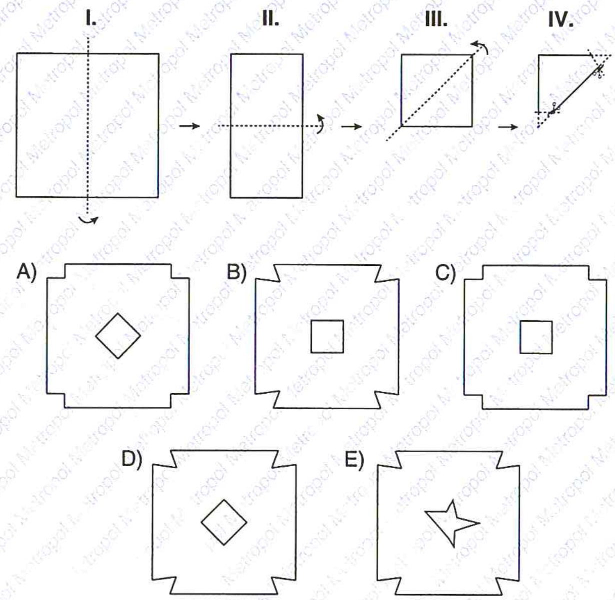
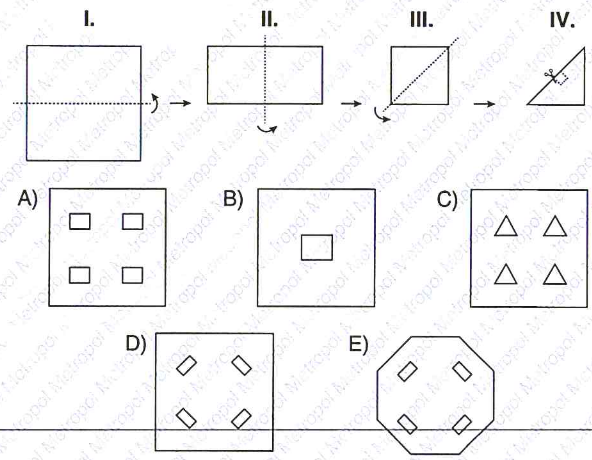


8.



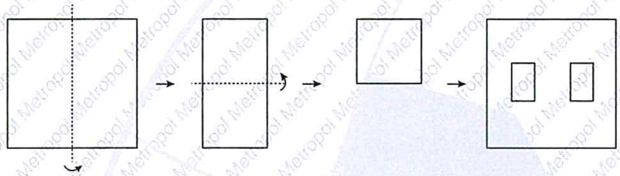
YANITLAR / ANSWERS

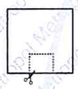
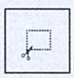
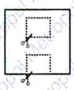
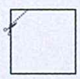
1	2	3	4	5	6	7	8
B	D	E	C	D	D	B	D

Aşağıdaki sorularda, I. adımlarda verilen şekiller katlanarak III. adımdaki şekiller elde ediliyor, ardından III. adımlardaki şekiller makas ile bir doğrultu boyunca kesiliyor. Kesilen parçalar atıldıktan sonra şekiller tekrar açıldığında IV. adımdaki şekiller elde ediliyor. Buna göre her bir sorudaki şekillerin kesim biçimlerini bulunuz.

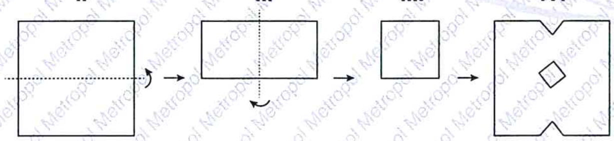
In the following questions, figures in step III obtain by folding the figures in step I, afterwards the figures in step III get cut along a direction with scissors. After cut pieces thrown out and the figures unfolded again the figures in step IV are obtained. Accordingly, find the cutting shapes of each question's figure.

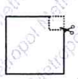
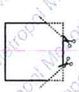
1. I. II. III. IV.



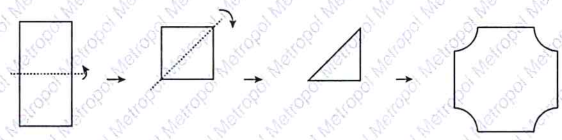
A) 
B) 
C) 
D) 
E) 

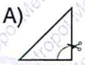
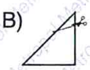
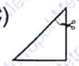
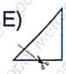
2. I. II. III. IV.



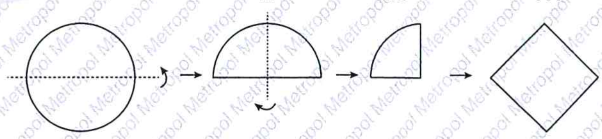
A) 
B) 
C) 
D) 
E) 

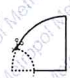
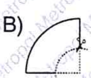
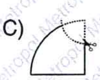
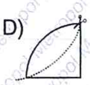
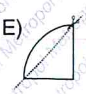
3. I. II. III. IV.



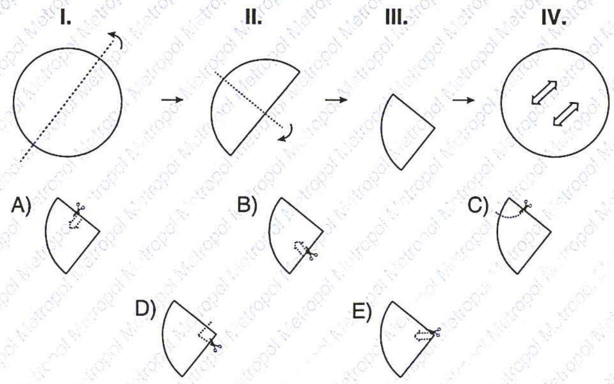
A) 
B) 
C) 
D) 
E) 

4. I. II. III. IV.

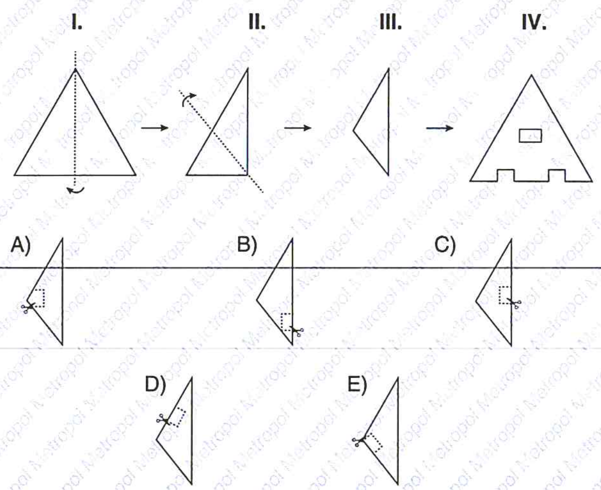


A) 
B) 
C) 
D) 
E) 

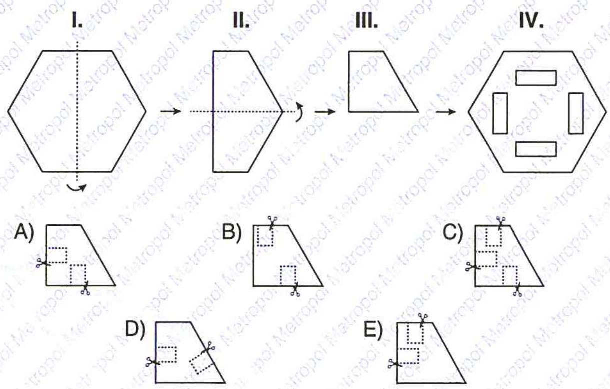
5.



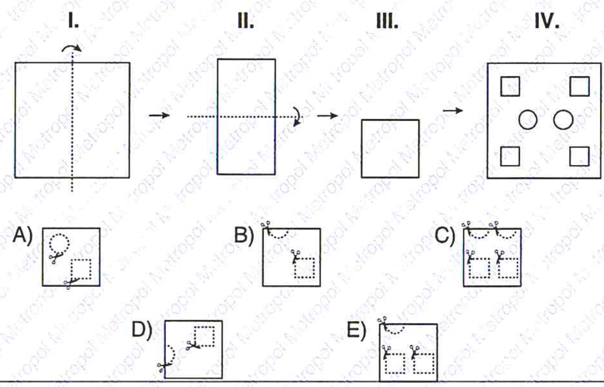
6.



7.



8.



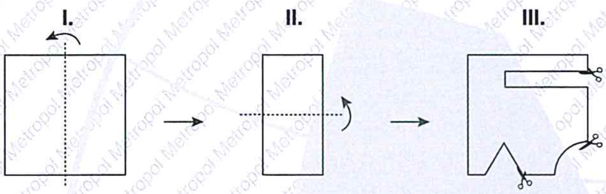
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	D	C	E	A	C	A	B

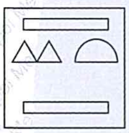
1, 2 ve 3. soruları aşağıda verilen metne göre cevaplayınız.
Answer the questions 1, 2 and 3 according to the text given below.

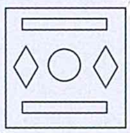
Aşağıdaki sorularda, I. adımlarda verilen şekiller belirtilen eksenlerden sırayla katlanarak son adımlardaki şekiller elde ediliyor ve ardından işaretli bölgeler kesilerek çıkartılıyor. Buna göre, son adımlarda oluşan şekiller konumları değiştirilmeden katlandıkları eksenlerden açık hale getirildiklerinde hangi şekillerin oluştuğunu bulunuz.
In the following questions, figures given is step I are folded according to the given axes in sequence to form the figure in last step, and then marked areas get cut and removed. Accordingly, find the figures formed by unfolding the figures of last step according to the given folding axes without changing the position of the figures.

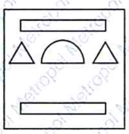
1.

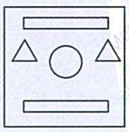


A) 

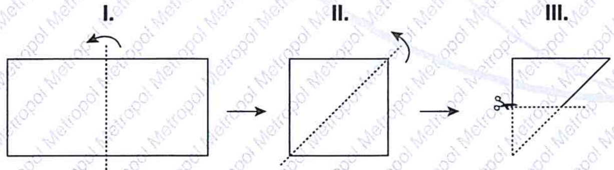
B) 

C) 

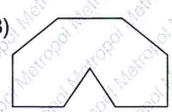
D) 

E) 

2.

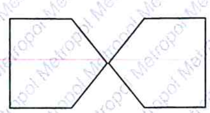


A) 

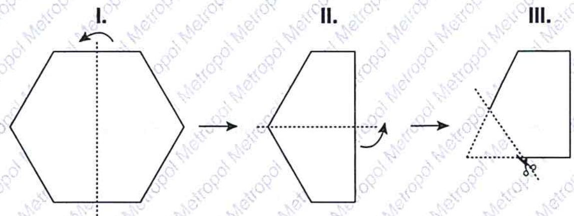
B) 

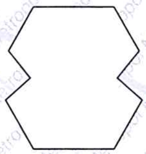
C) 

D) 

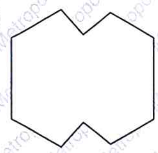
E) 

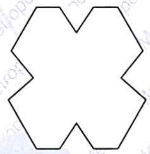
3.

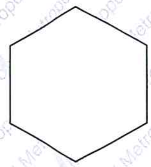


A) 

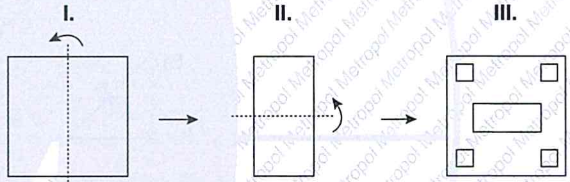
B) 

C) 

D) 

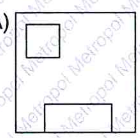
E) 

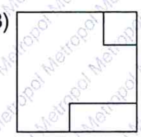
4.

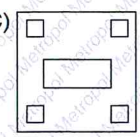


Yukarıda kare biçimindeki bir kağıt ilk iki adımda dörde katlanıyor daha sonrada kağıdın konumu değiştirilmeden belirli parçalar kesilip atılıyor. III. adımda dörde katlanıp belirli parçaları kesilen kağıdın konumu değiştirilmeden katlandığı yerlerden açıldığında oluşan şekli göstermektedir.
A square shaped paper folds to four in the first two steps and particular parts are cut without changing position. The third step shows that the position of this paper unchanged and it is opened from where the paper is folded.

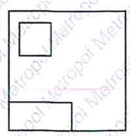
Buna göre, dörde katlanan şeklin açılmadan önceki kesim noktalarını gösteren hali aşağıdakilerden hangisidir?
Accordingly, which is the cut off point before the four folded shape is opened?

A) 

B) 

C) 

D) 

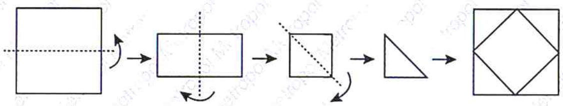
E) 

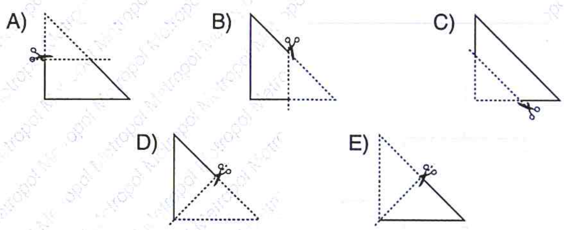
5, 6, 7 ve 8. soruları aşağıda verilen metne göre cevaplayınız.
Answer the questions 5, 6, 7 and 8 according to the text given below.

Aşağıda I. adımda verilen şekiller katlanarak IV. adımdaki şekil elde ediliyor. IV. adımdaki şekil makas ile bir doğrultu boyunca kesiliyor. Şekilde kesilen parçalar atıldıktan sonra kağıt tekrar açıldığında V. adımdaki şekil elde ediliyor. Buna göre kağıdın kesim şekli aşağıdakilerden hangisidir?

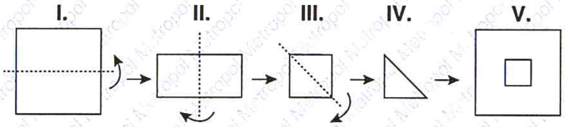
The figure in the step I is folded and the figure in the step IV is obtained. The figure in step IV is cut along one direction with scissors. After the cutting pieces are thrown and the paper is opened again the figure in step V is obtained. Accordingly, which of the following does the triangle cutting style?

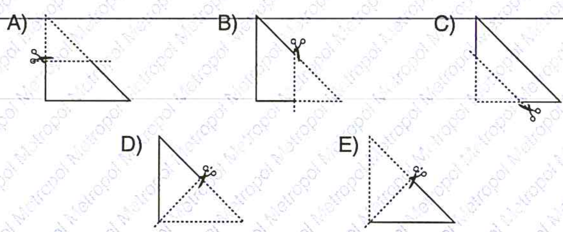
5. I. II. III. IV. V.



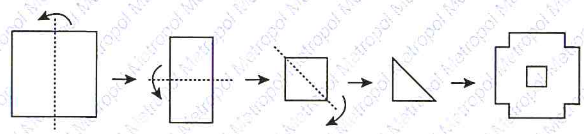


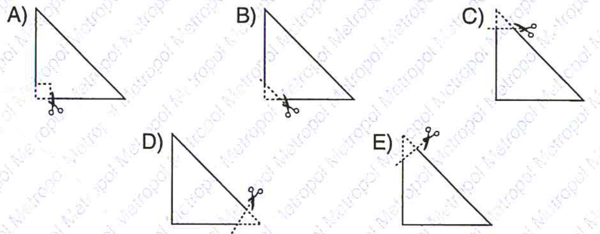
6. I. II. III. IV. V.



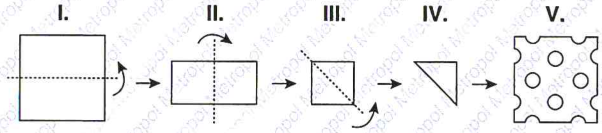


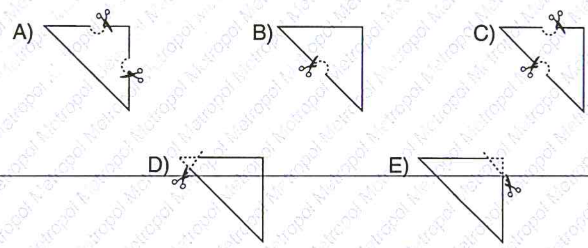
7. I. II. III. IV. V.





8. I. II. III. IV. V.



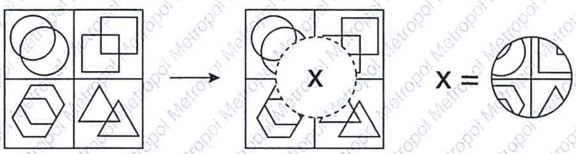


YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	D	A	E	D	B	A	A

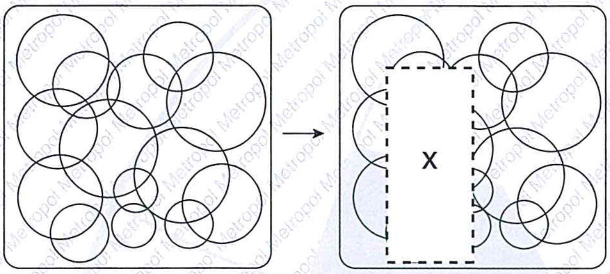
1.

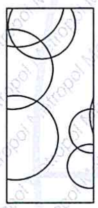
Örnek / Example :

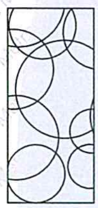


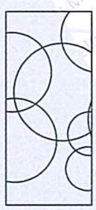
1 - 3. soruları yukarıda verilen örneğe göre cevaplayınız.

Answer questions 1 - 3 according to the example above.

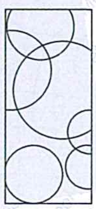


A) 

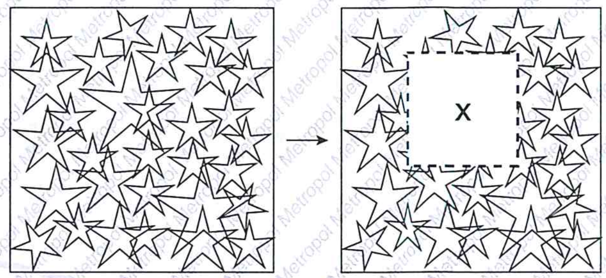
B) 

C) 

D) 

E) 

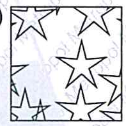
2.



A) 

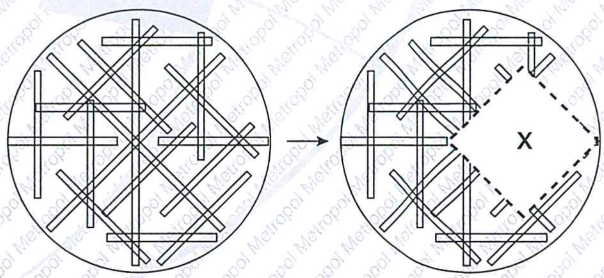
B) 

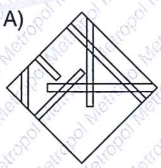
C) 

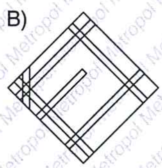
D) 

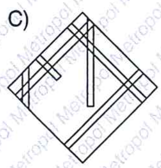
E) 

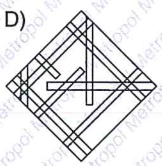
3.

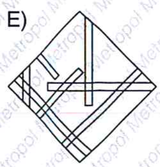


A) 

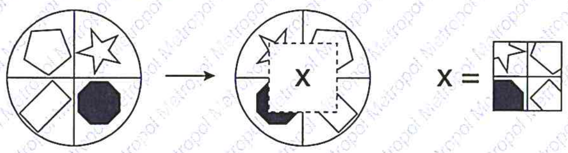
B) 

C) 

D) 

E) 

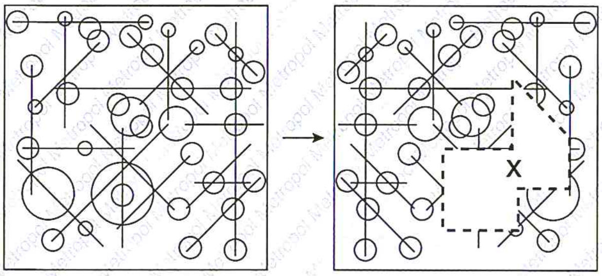
Örnek / Example :

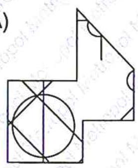
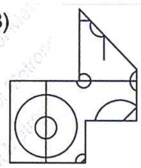
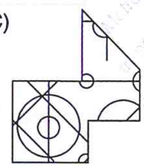
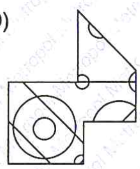
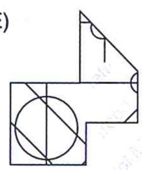


4 - 7. soruları yukarıda verilen örneğe göre cevaplayınız.

Answer questions 4 - 7 according to the example above.

4.



A) 
B) 
C) 
D) 
E) 

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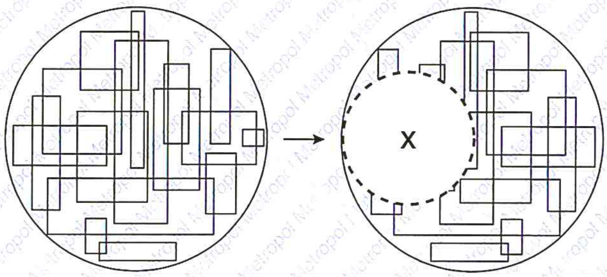
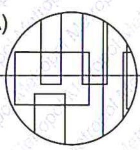
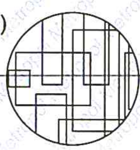
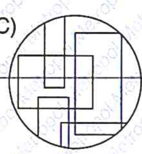
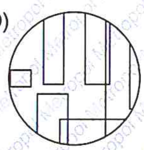
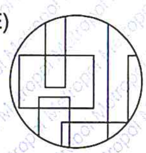
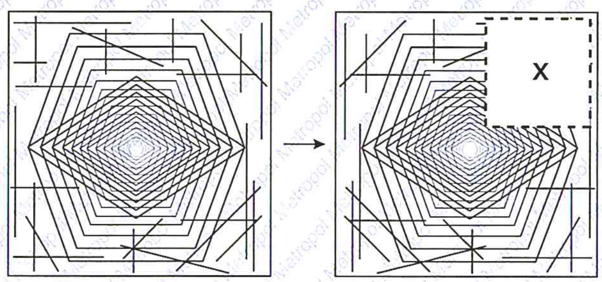
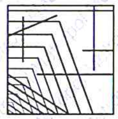
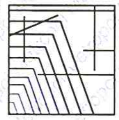
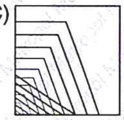
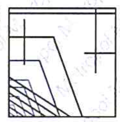
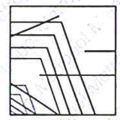


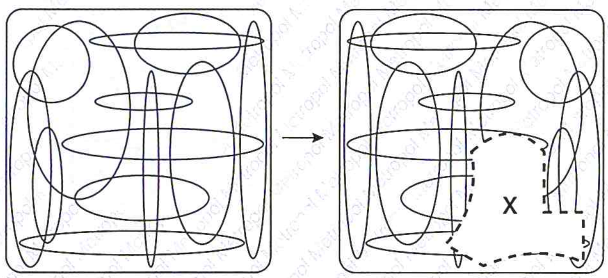
A) 
B) 
C) 
D) 
E) 

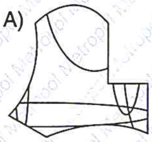
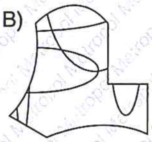
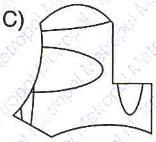
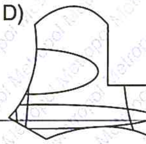
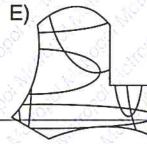
6.



A) 
B) 
C) 
D) 
E) 

7.



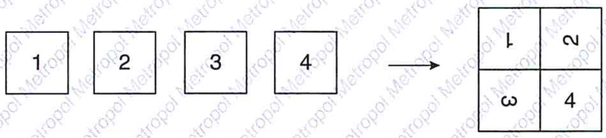
A) 
B) 
C) 
D) 
E) 

YANITLAR / ANSWERS

1	B	3	D	5	B	7	E
2	A	4	C	6	A	8	

Örnek / Example,

I. II.

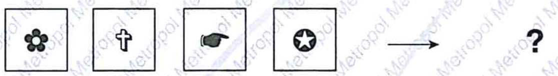


Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.

In the figure 1, four pieces of a jigsaw puzzle are given respectively.

In the figure 2, the solved puzzle is given.

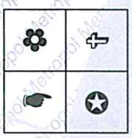
Buna göre / Accordingly,

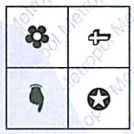
1. 

Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?

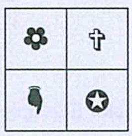
Which one is the correct form of the solved jigsaw puzzle?

A) 

B) 

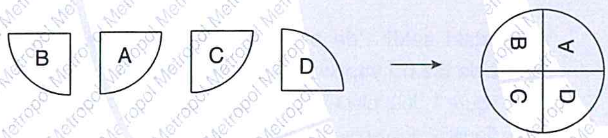
C) 

D) 

E) 

Örnek / Example,

I. II.



Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.

In the figure 1, four pieces of a jigsaw puzzle are given respectively.

In the figure 2, the solved puzzle is given.

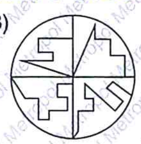
Buna göre / Accordingly,

2. 

Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?

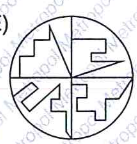
Which one is the correct form of the solved jigsaw puzzle?

A) 

B) 

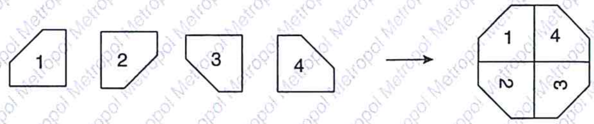
C) 

D) 

E) 

Örnek / Example,

I. II.

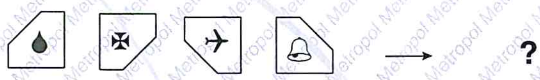


Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.

In the figure 1, four pieces of a jigsaw puzzle are given respectively.

In the figure 2, the solved puzzle is given.

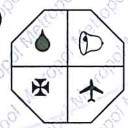
Buna göre / Accordingly,

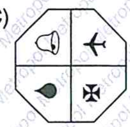
3. 

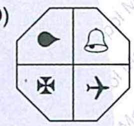
Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?

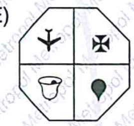
Which one is the correct form of the solved jigsaw puzzle?

A) 

B) 

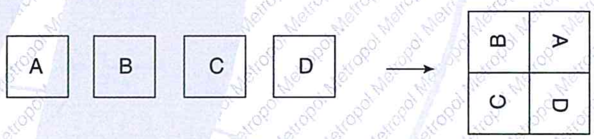
C) 

D) 

E) 

Örnek / Example,

I. II.



Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.

In the figure 1, four pieces of a jigsaw puzzle are given respectively.

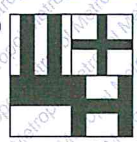
In the figure 2, the solved puzzle is given.

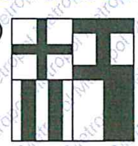
Buna göre / Accordingly,

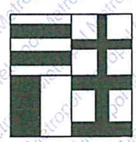
4. 

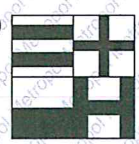
Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?

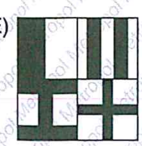
Which one is the correct form of the solved jigsaw puzzle?

A) 

B) 

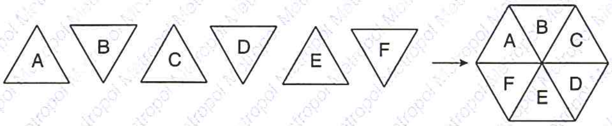
C) 

D) 

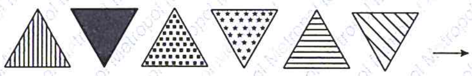
E) 

Örnek / Example,

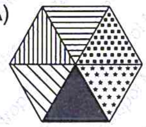
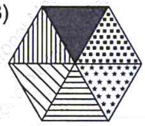
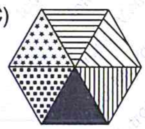
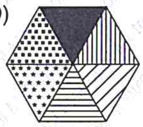
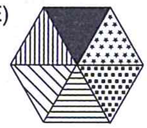
I. II.



Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.
In the figure 1, four pieces of a jigsaw puzzle are given respectively.
In the figure 2, the solved puzzle is given.
Buna göre / Accordingly,

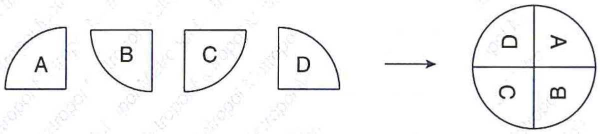
5.  ?

Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?
Which one is the correct form of the solved jigsaw puzzle?

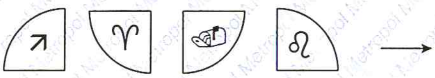
A) 
B) 
C) 
D) 
E) 

Örnek / Example,

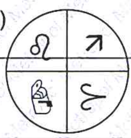
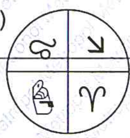
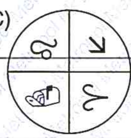
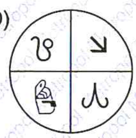
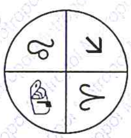
I. II.



Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.
In the figure 1, four pieces of a jigsaw puzzle are given respectively.
In the figure 2, the solved puzzle is given.
Buna göre / Accordingly,

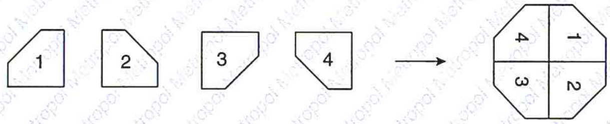
6.  ?

Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?
Which one is the correct form of the solved jigsaw puzzle?

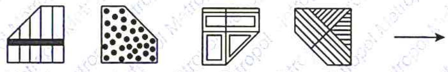
A) 
B) 
C) 
D) 
E) 

Örnek / Example,

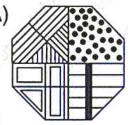
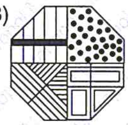
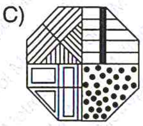
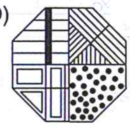
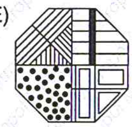
I. II.



Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.
In the figure 1, four pieces of a jigsaw puzzle are given respectively.
In the figure 2, the solved puzzle is given.
Buna göre / Accordingly,

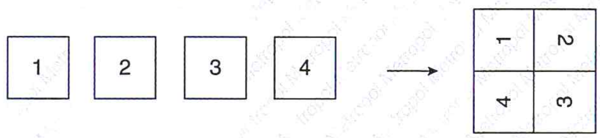
7.  ?

Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?
Which one is the correct form of the solved jigsaw puzzle?

A) 
B) 
C) 
D) 
E) 

Örnek / Example,

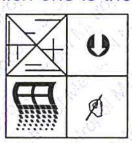
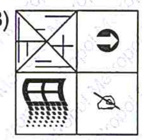
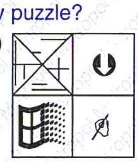
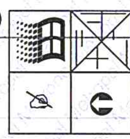
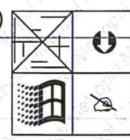
I. II.



Yukarıdaki şekil 1'de bir yapbozun sırasıyla dört parçası, şekil 2'de ise bu yapbozun birleştirilmiş hali veriliyor.
In the figure 1, four pieces of a jigsaw puzzle are given respectively.
In the figure 2, the solved puzzle is given.
Buna göre / Accordingly,

8.  ?

Yapbozun birleştirilmiş hali aşağıdakilerden hangisidir?
Which one is the correct form of the solved jigsaw puzzle?

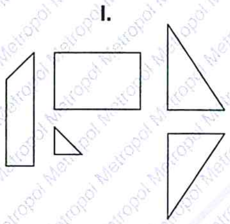
A) 
B) 
C) 
D) 
E) 

YANITLAR / ANSWERS

1	C	3	A	5	B	7	C
2	B	4	D	6	E	8	A

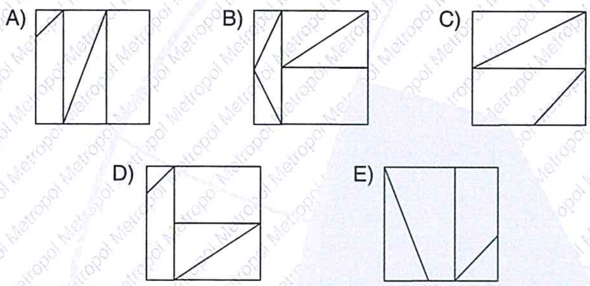
Aşağıdaki sorularda I. adımda verilen şekiller aralarında boşluk kalmayacak biçimde birleştirildiğinde oluşan şekilleri bulunuz.
In the following questions, find the formed figures when figures given in step I combine with no empty space in between.

1. I. II.

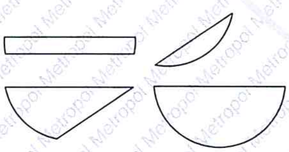


≡ ?

A) B) C) D) E)

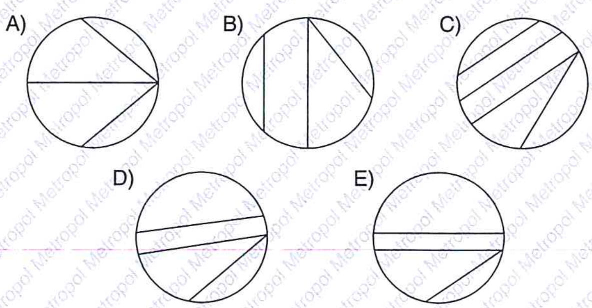


2. I. II.

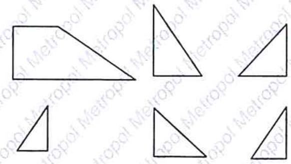


≡ ?

A) B) C) D) E)

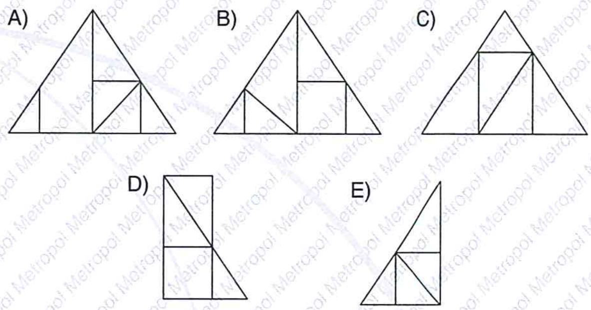


3. I. II.

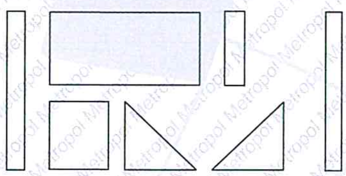


≡ ?

A) B) C) D) E)

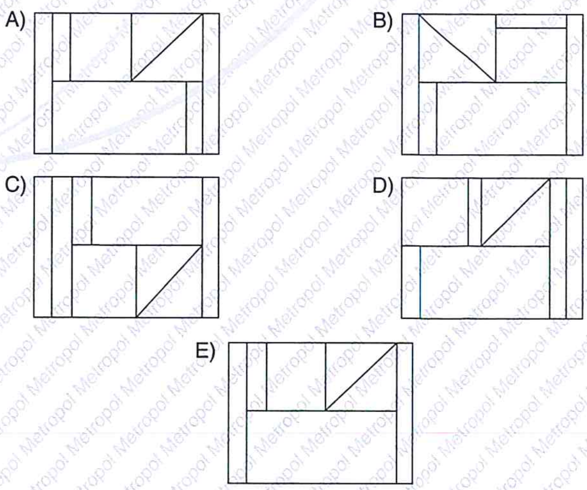


4. I. II.

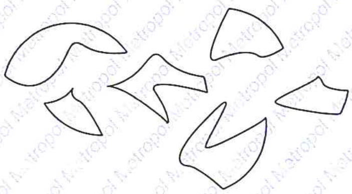


≡ ?

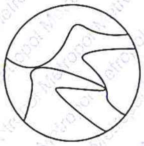
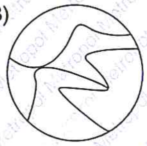
A) B) C) D) E)



5. I. II.



≡ ?

A)

B)

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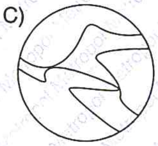
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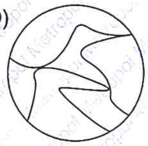
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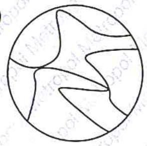
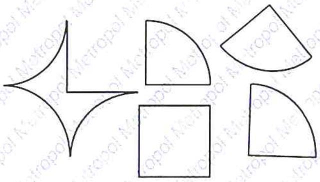
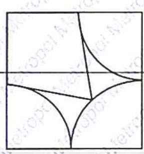


6. I. II.



≡ ?

A)

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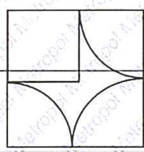
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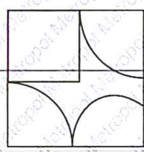
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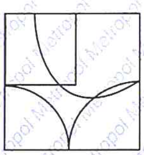
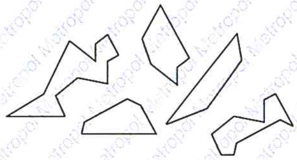
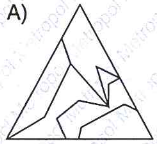

E)


7. I. II.



≡ ?

A)

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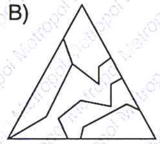
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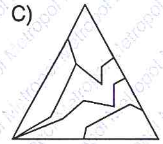
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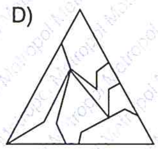
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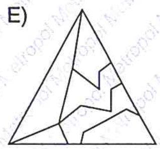
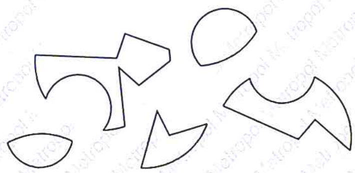
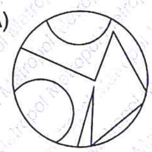


8.



≡ ?

A)

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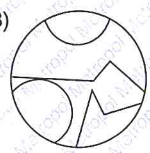
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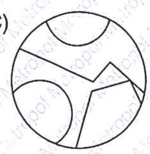
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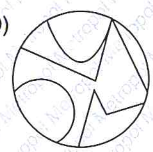
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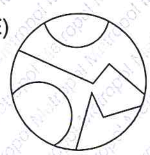


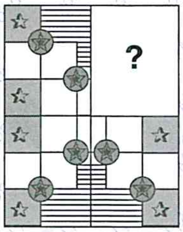
YANITLAR / ANSWERS

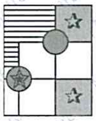
1	2	3	4	5	6	7	8
D	E	A	E	A	B	B	E

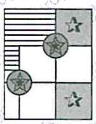
Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

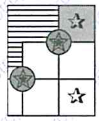
In the following questions, which figure should replace question mark.

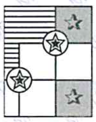
1.

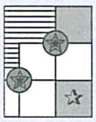


A) 

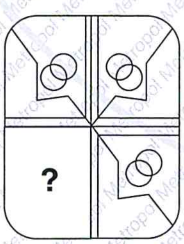
B) 

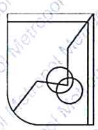
C) 

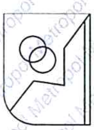
D) 

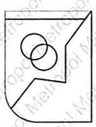
E) 

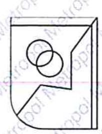
2.

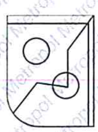


A) 

B) 

C) 

D) 

E) 

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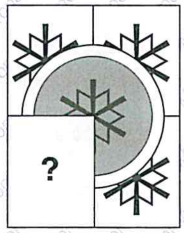
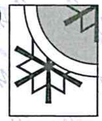
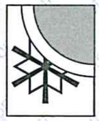
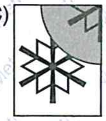
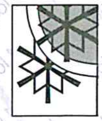


A) 

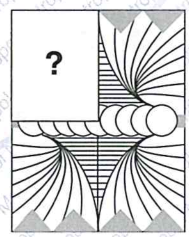
B) 

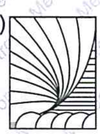
C) 

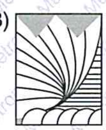
D) 

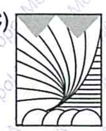
E) 

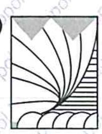
4.



A) 

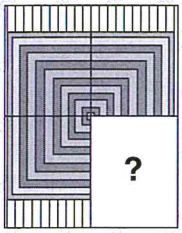
B) 

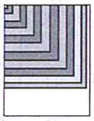
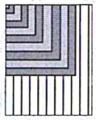
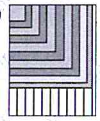
C) 

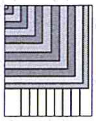
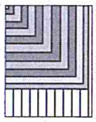
D) 

E) 

5.



A)  B)  C) 

D)  E) 

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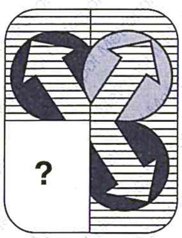
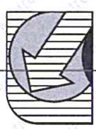
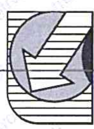
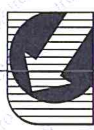
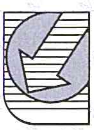
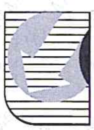


A)  B)  C) 

D)  E) 

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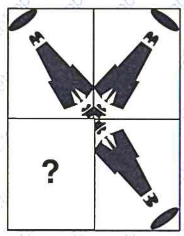
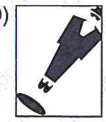


A)  B)  C) 

D)  E) 

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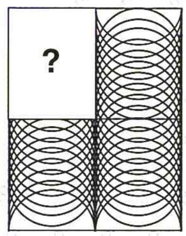
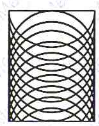
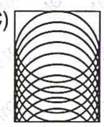
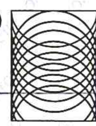
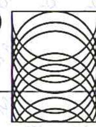


A)  B)  C) 

D)  E) 

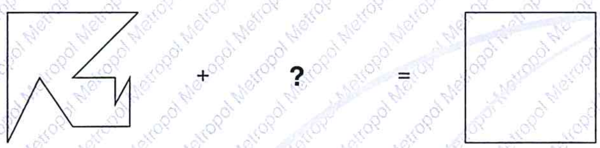
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	D	A	B	E	A	E	B

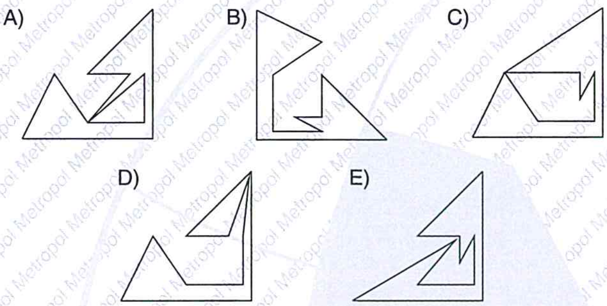
Aşağıdaki sorularda I. adımda verilen şekilleri III. adımdaki şekillere tamamlamak için gerekli olan parçaları bulunuz.

In the following questions, find the required pieces to complete the figures in step I to the figures in step III.

1. I. II. III.



A) B) C) D) E)



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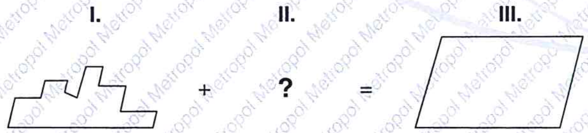
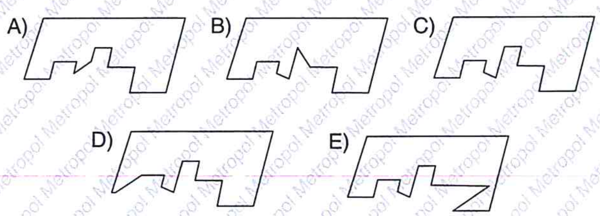


A) B) C) D) E)



3. I. II. III.

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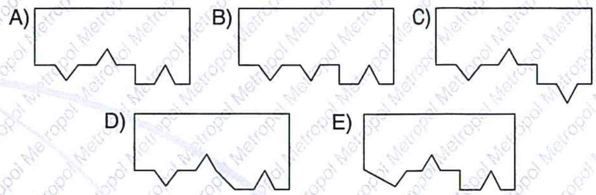

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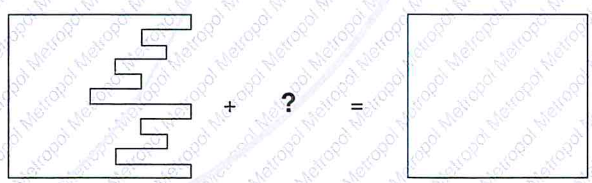
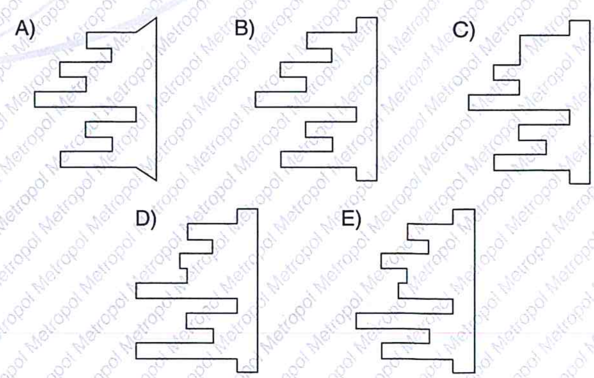


A) B) C) D) E)



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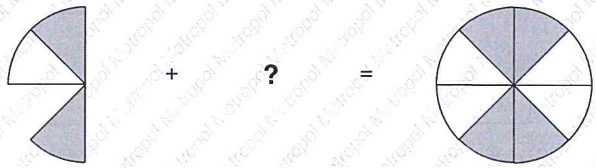
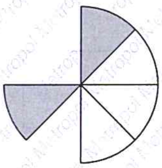
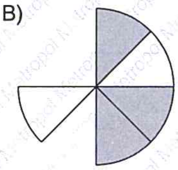
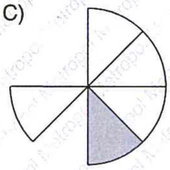
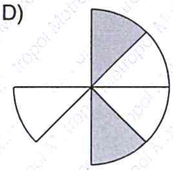
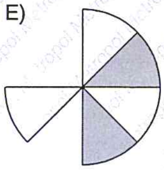


A) 
B) 
C) 
D) 
E) 

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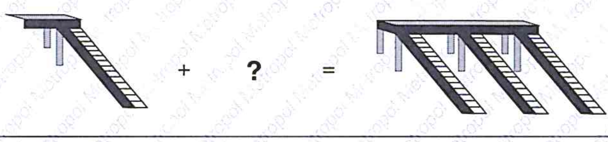
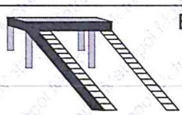
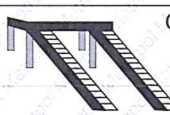
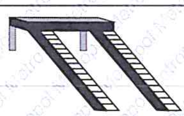
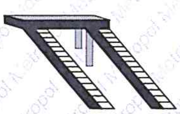
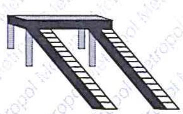


A) 
B) 
C) 
D) 
E) 

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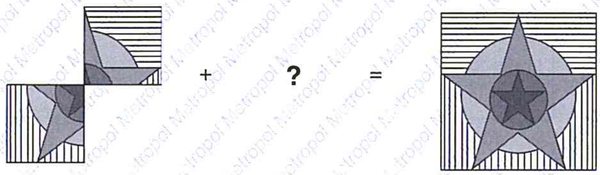
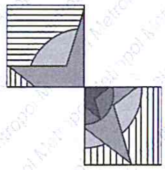
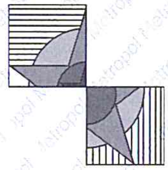
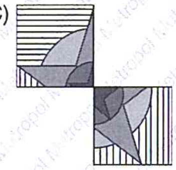
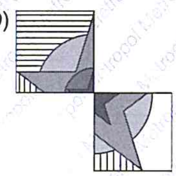
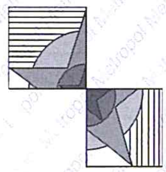


A) 
B) 
C) 
D) 
E) 

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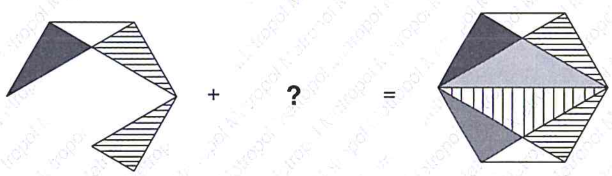
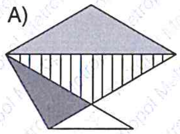
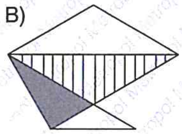
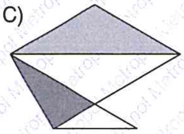
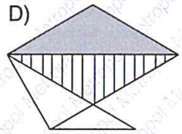
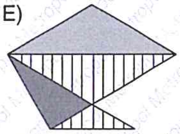


A) 
B) 
C) 
D) 
E) 

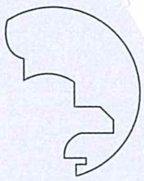
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	C	A	B	D	E	C	A

1 - 4. sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In questions 1 - 4, which figure should replace question mark.

1.

A) 
B) 
C) 
D) 
E) 

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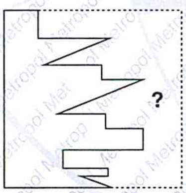
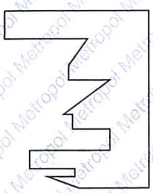
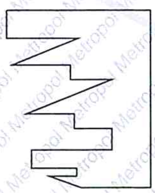
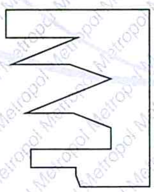
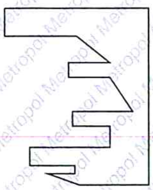


A) 
B) 
C) 
D) 
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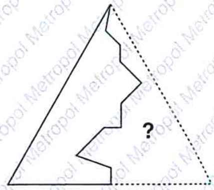

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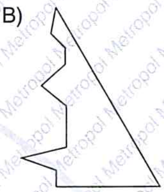
B) 
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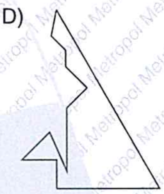
D) 
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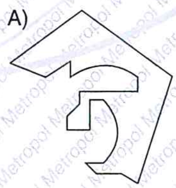
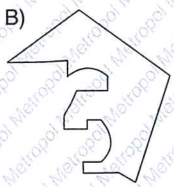
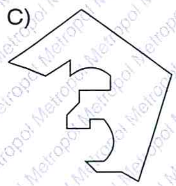
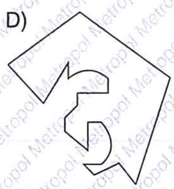
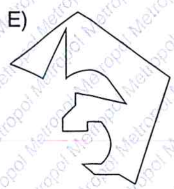
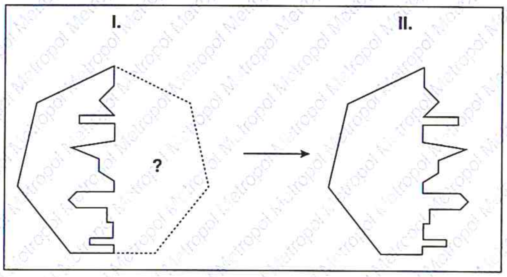
4.

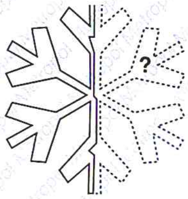
A) 
B) 
C) 
D) 
E) 

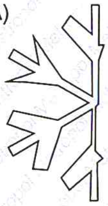


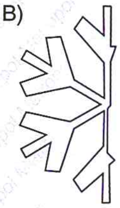
5 ve 6. soruları yukarıdaki örneğe göre cevaplayınız.

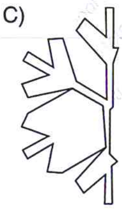
Answer questions 5 and 6 according to the example above.

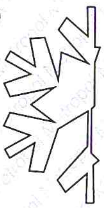
5.

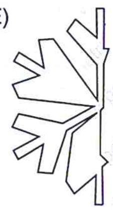


A) 

B) 

C) 

D) 

E) 

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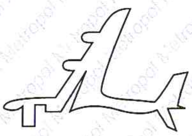
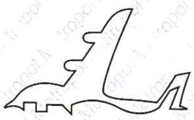
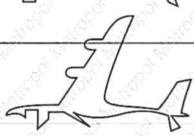
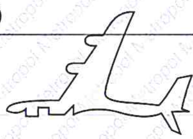
A) 

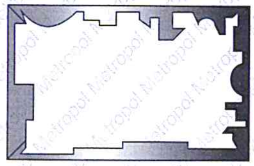
B) 

C) 

D) 

E) 

7.



A) 

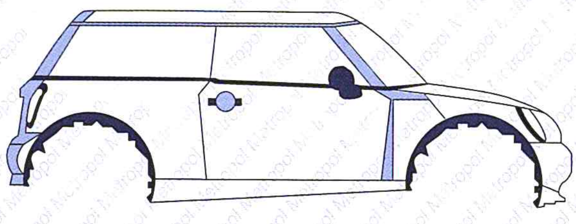
B) 

C) 

D) 

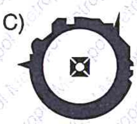
E) 

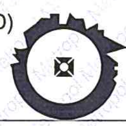
8.

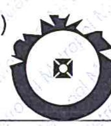


A) 

B) 

C) 

D) 

E) 

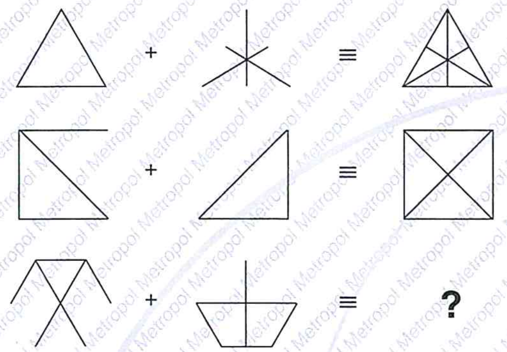
YANITLAR / ANSWERS

1	E	3	A	5	B	7	A
2	B	4	C	6	D	8	B

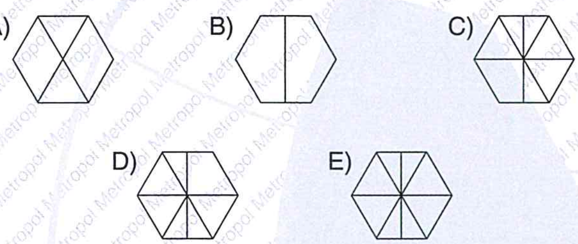
Aşağıdaki sorularda I. adımdaki şekillerle II. adımdaki şekiller toplandığında oluşan şekilleri bulunuz.

In the following questions, find the figures formed when collecting figures in step I and step II.

1.

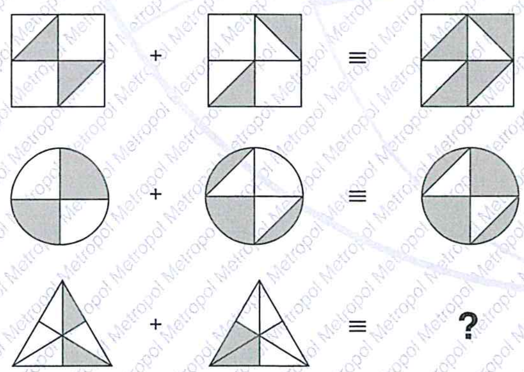


I. + ≡
II. + ≡
III. + ≡ ?

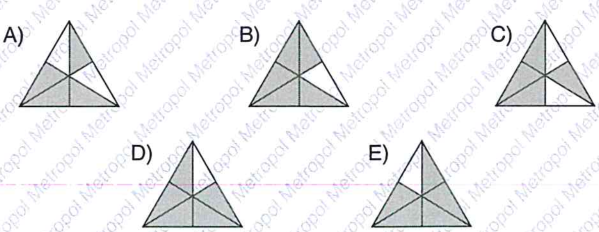


A) B) C) D) E)

2.

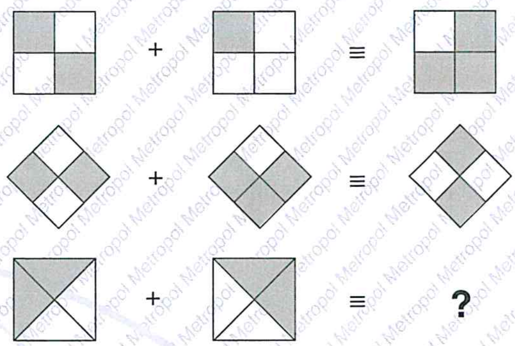


I. + ≡
II. + ≡
III. + ≡ ?

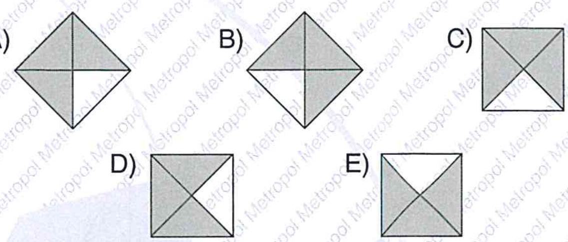


A) B) C) D) E)

3.

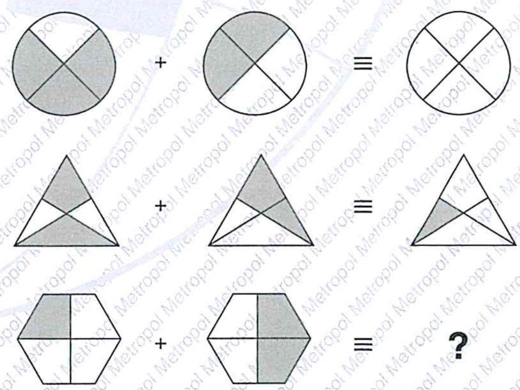


I. + ≡
II. + ≡
III. + ≡ ?

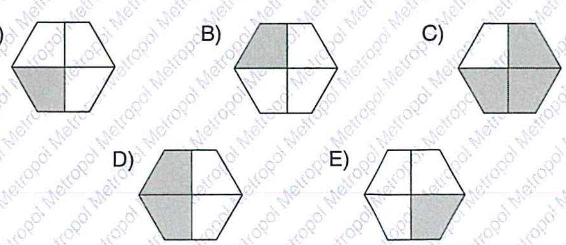


A) B) C) D) E)

4.



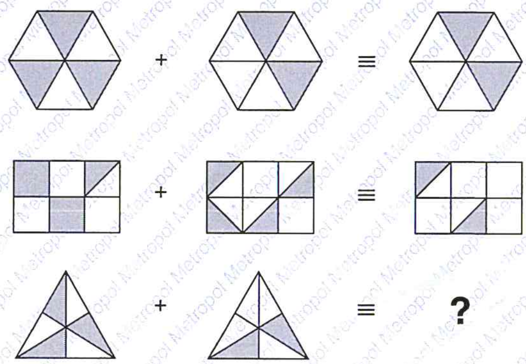
I. + ≡
II. + ≡
III. + ≡ ?



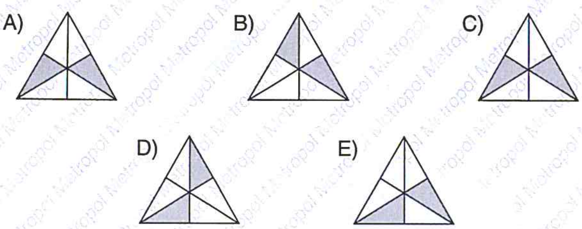
A) B) C) D) E)

5.

I. II. III.

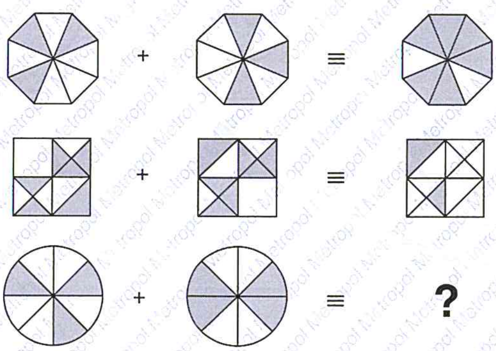


A) B) C) D) E)

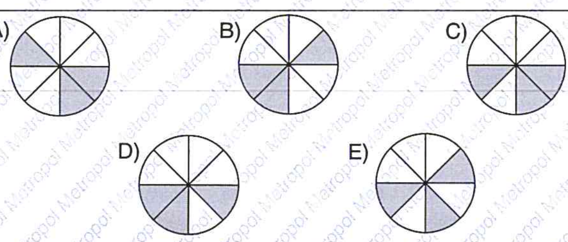


6.

I. II. III.

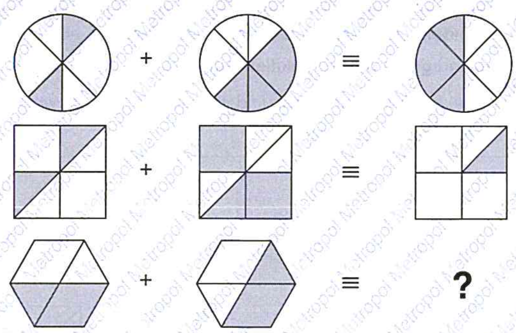


A) B) C) D) E)

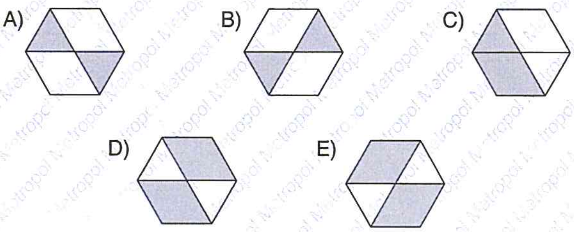


7.

I. II. III.

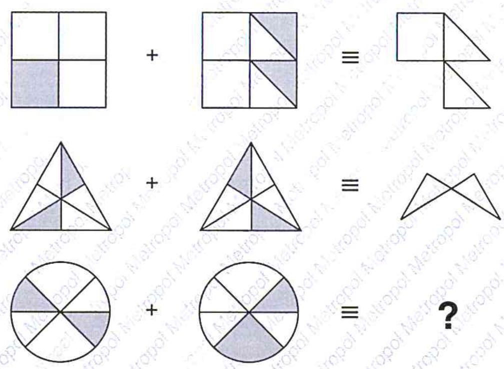


A) B) C) D) E)

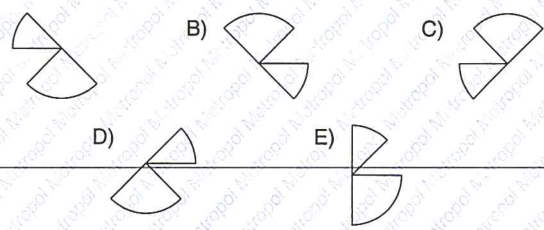


8.

I. II. III.



A) B) C) D) E)



YANITLAR / ANSWERS

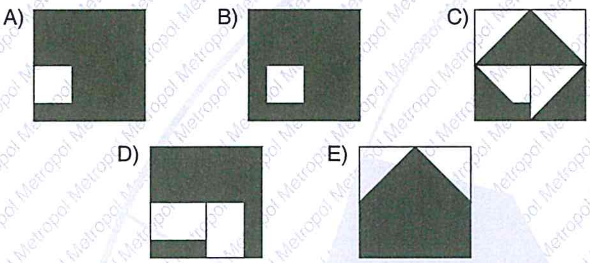
1	2	3	4	5	6	7	8
E	A	E	A	E	C	E	C

1 – 4. sorularda I. adımdaki şekillerle II. adımdaki şekiller toplandığında oluşan şekilleri bulunuz.

In the questions 1 – 4, find the figures formed when collecting figures in step I and step II.

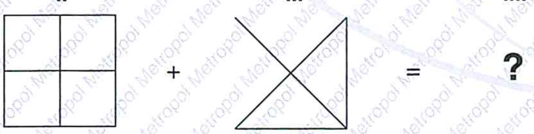
1.

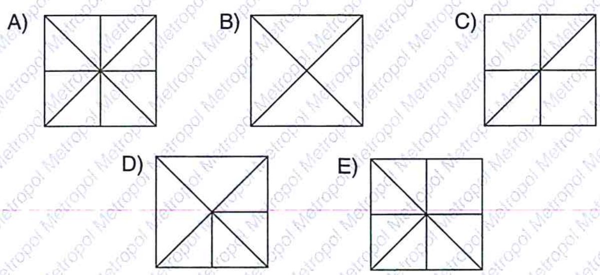
I. II. III.



2.

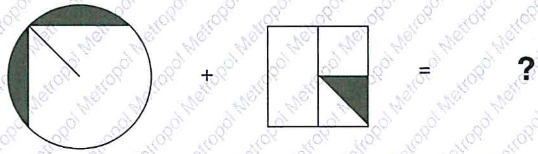
I. II. III.

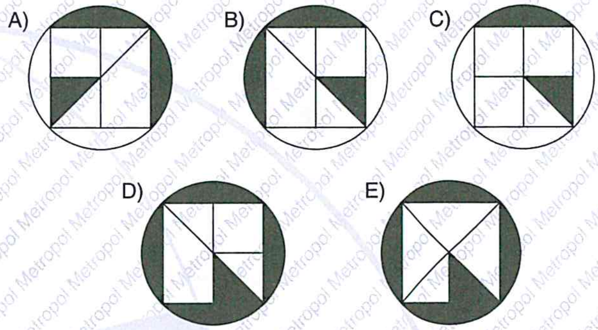




3.

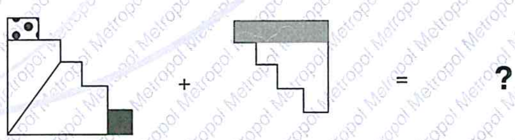
I. II. III.

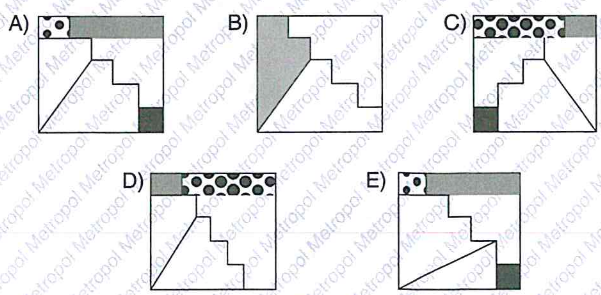




4.

I. II. III.

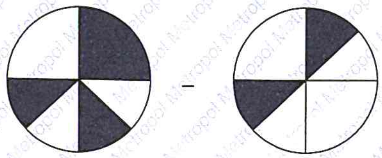




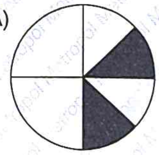
5 – 8. sorularda I. adımdaki şekillerden II. adımdaki şekiller çıkartıldığında oluşan şekilleri bulunuz.

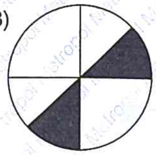
In the questions 5 – 8, find the figures formed when extracting figures in step II from step I.

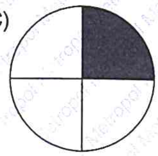
5. I. – II. = III.

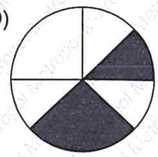


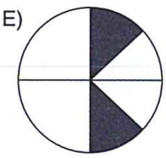
?

A) 

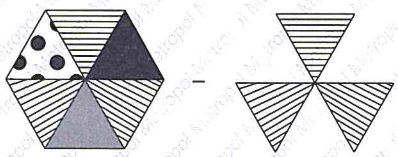
B) 

C) 

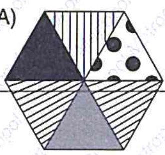
D) 

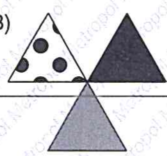
E) 

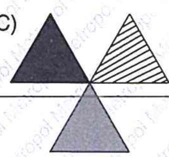
6. I. – II. = III.

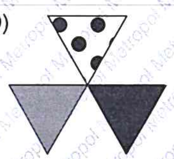


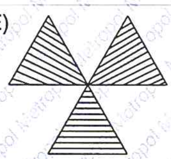
?

A) 

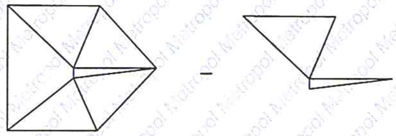
B) 

C) 

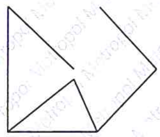
D) 

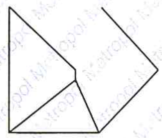
E) 

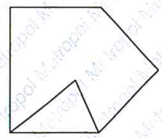
7. I. – II. = III.

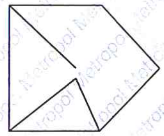


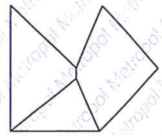
?

A) 

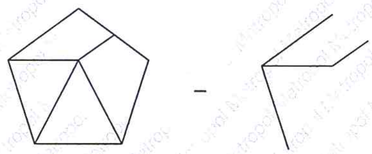
B) 

C) 

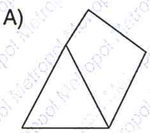
D) 

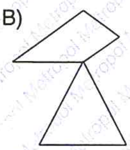
E) 

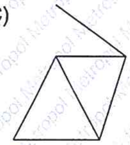
8. I. – II. = III.

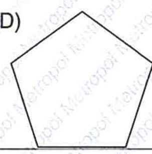


?

A) 

B) 

C) 

D) 

E) 

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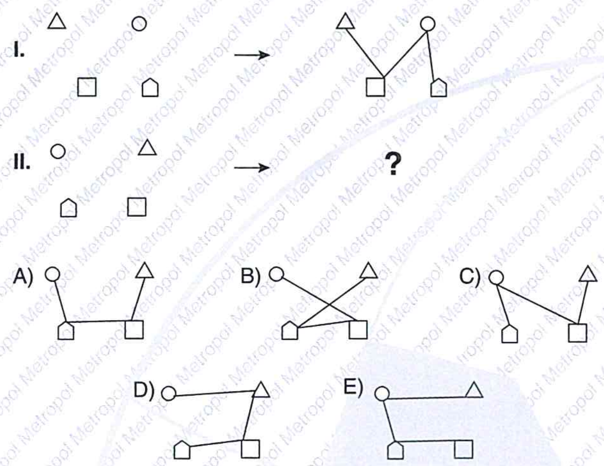
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	A	B	A	A	B	A	E

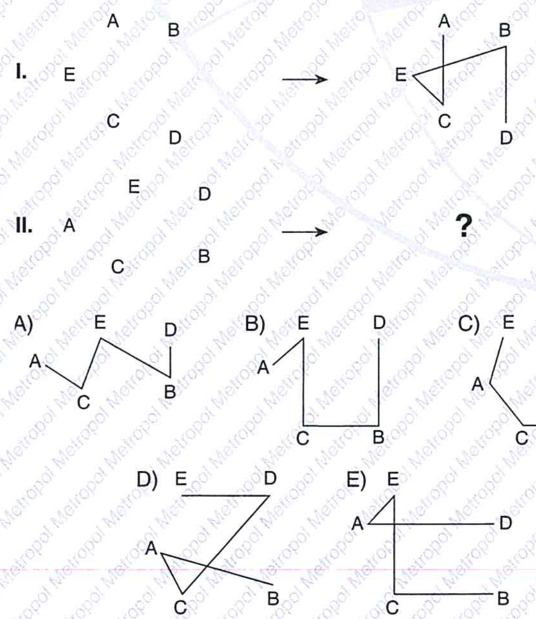
Aşağıdaki sorularda I. adımda şekiller arasında verilen ilişkiye göre II. adımı hangi şeklin tamamladığını bulunuz.

In the following questions, find the figure which completes step II according to given relation in step I.

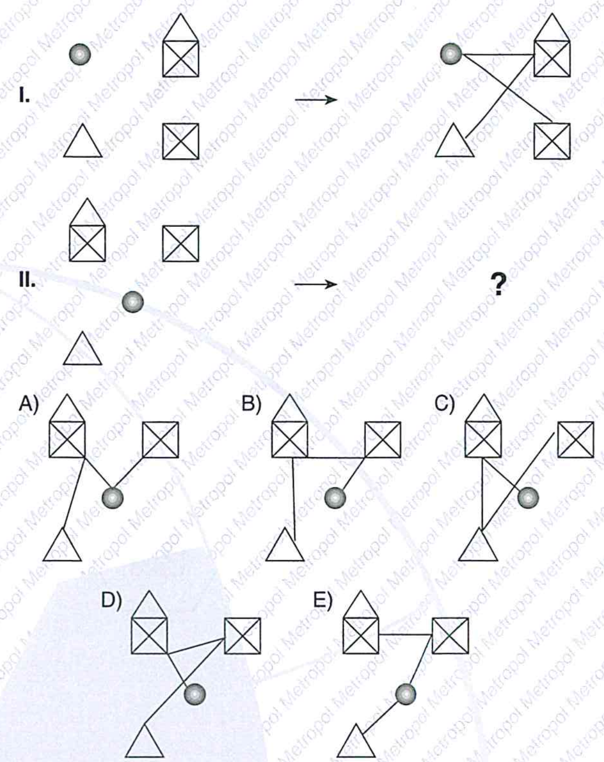
1.



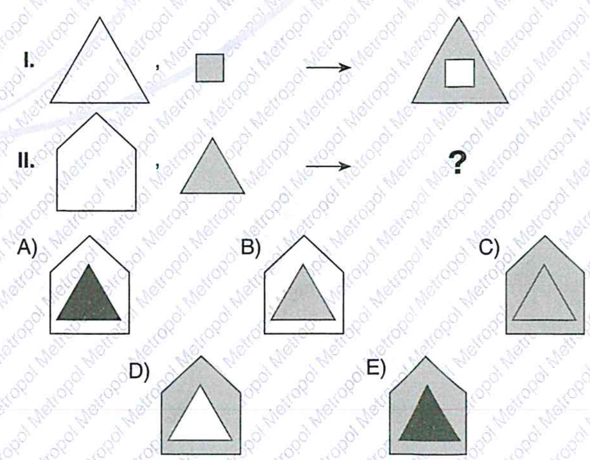
2.



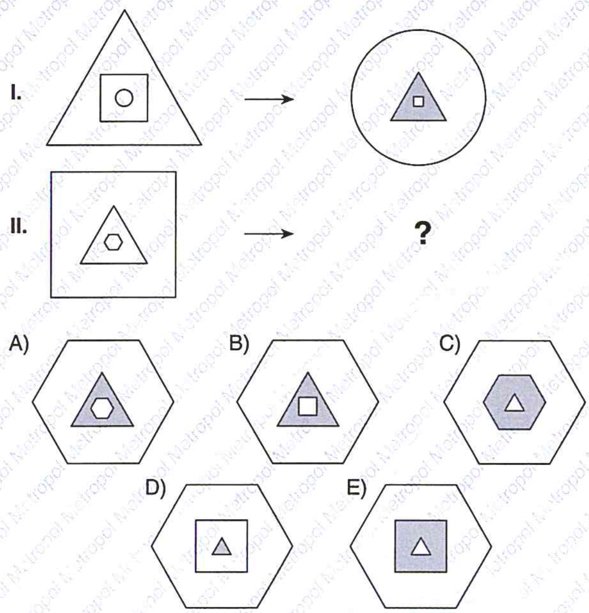
3.



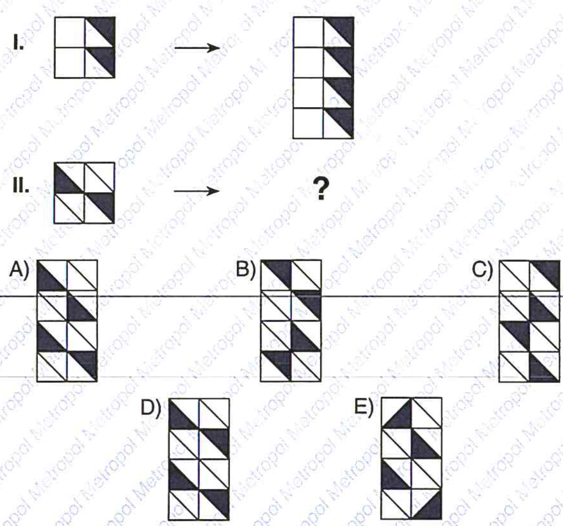
4.



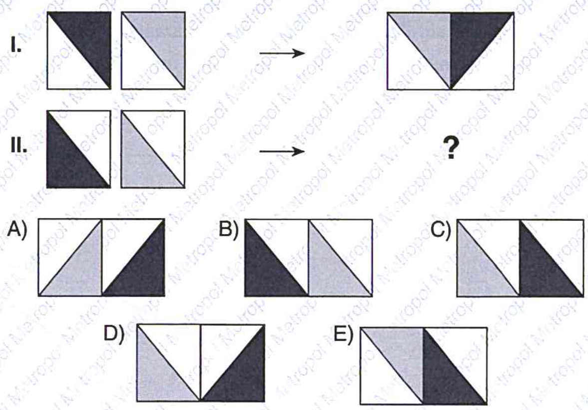
5.



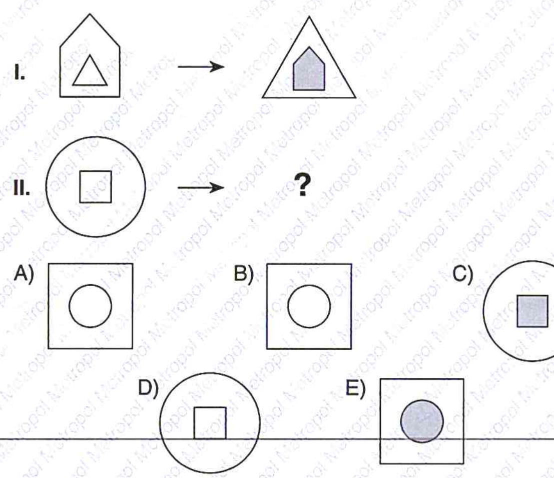
6.



7.



8.



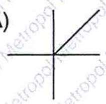
YANITLAR / ANSWERS

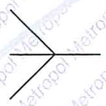
1	2	3	4	5	6	7	8
C	A	A	D	E	D	D	E

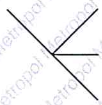
Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In the following questions, which figure should replace question mark.

1. I. II. III. IV.

A) 

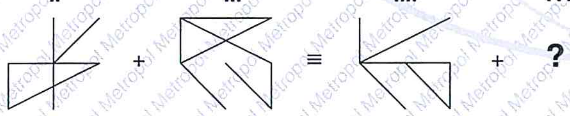
B) 

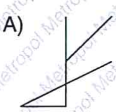
C) 

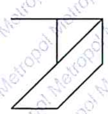
D) 

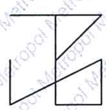
E) 

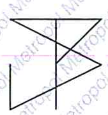
2. I. II. III. IV.

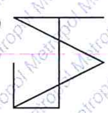


A) 

B) 

C) 

D) 

E) 

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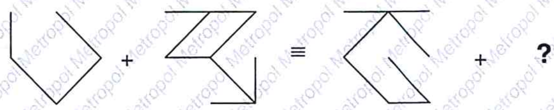

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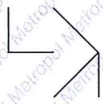
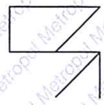
B) 

C) 

D) 

E) 

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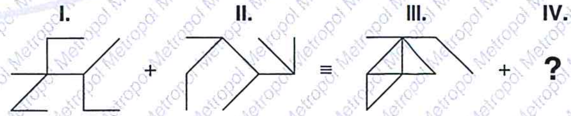
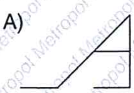


A) 

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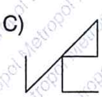
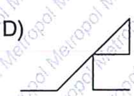
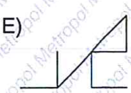
C) 

D) 

E) 

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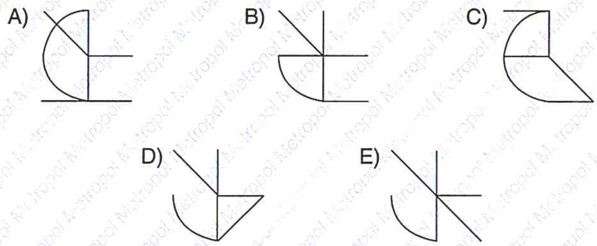

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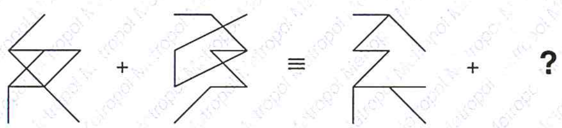

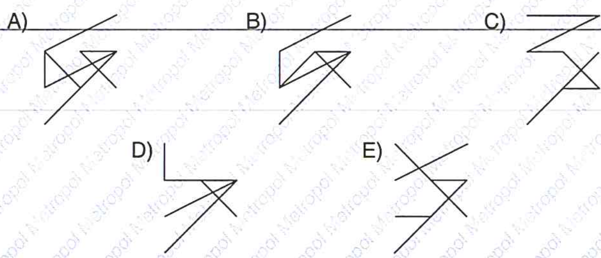

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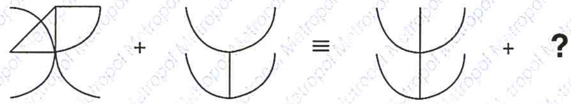

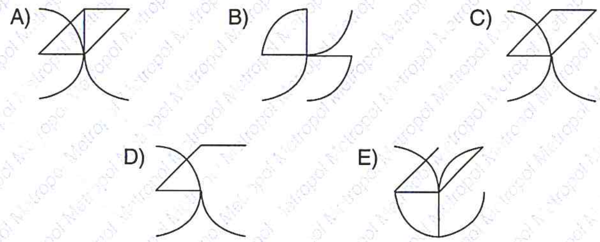

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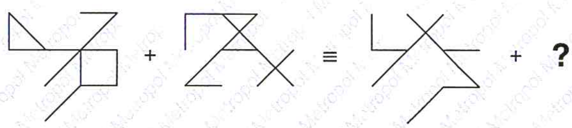
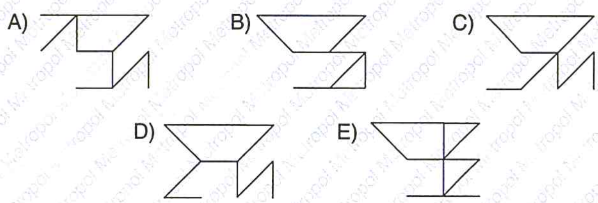




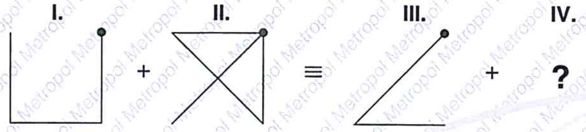
YANITLAR / ANSWERS

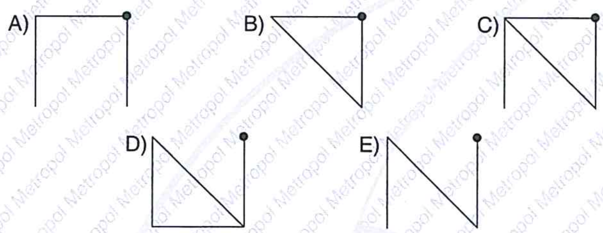
1	2	3	4	5	6	7	8
B	D	A	D	E	A	D	C

Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In the following questions, which figure should replace question mark.

1.





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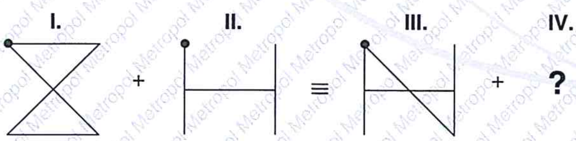

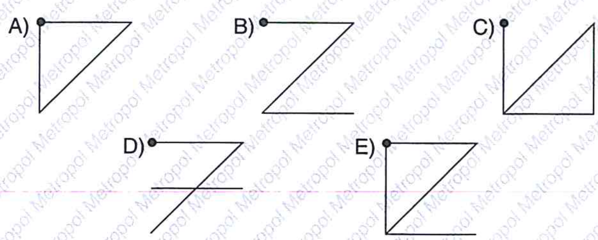

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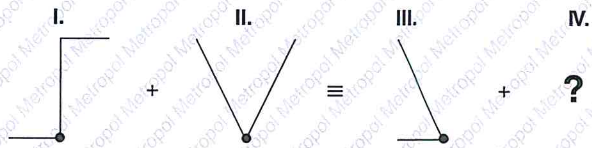

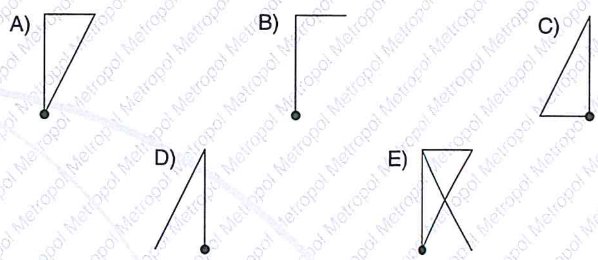

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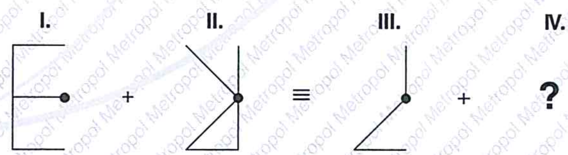

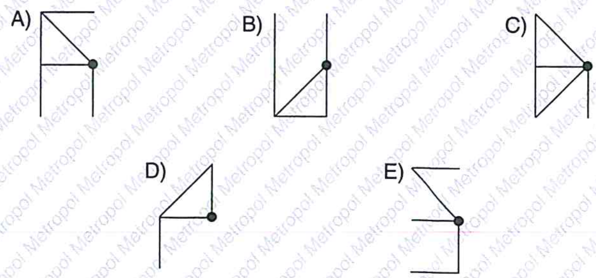

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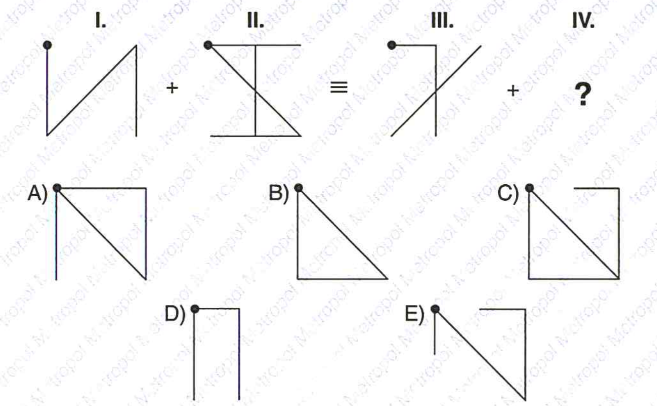

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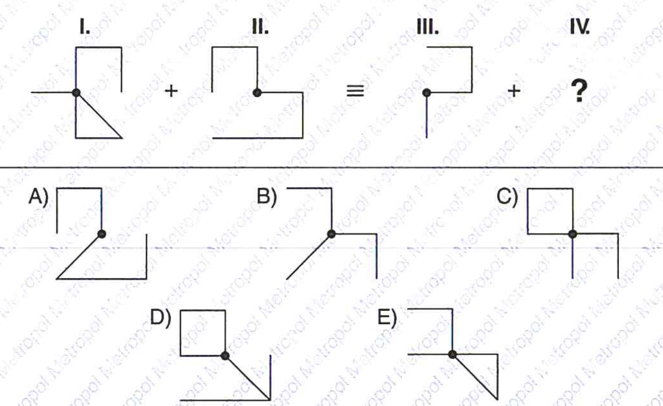

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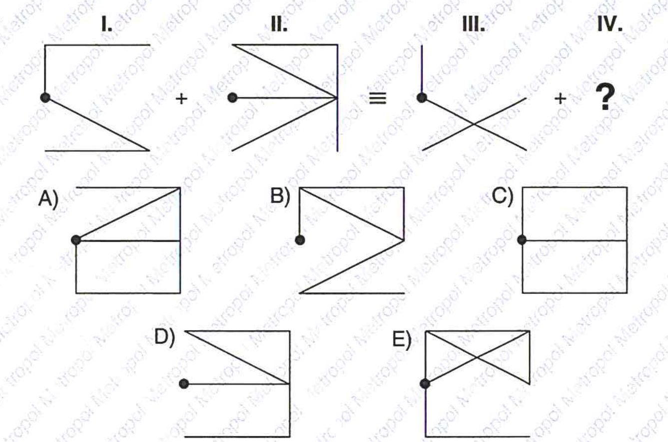

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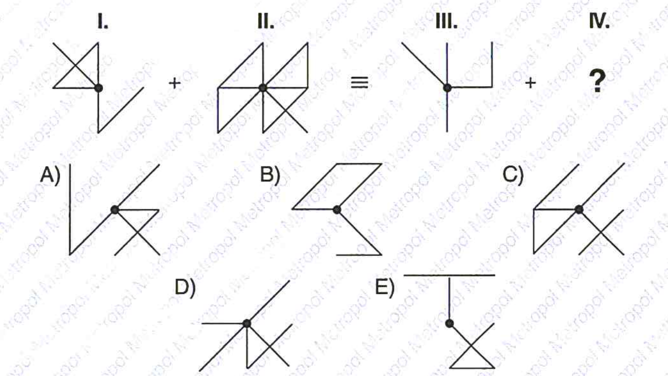


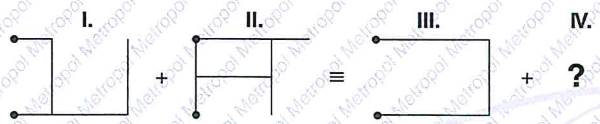
YANITLAR / ANSWERS

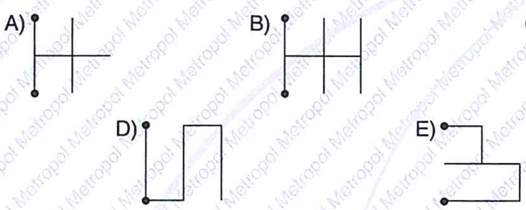
1	2	3	4	5	6	7	8
C	B	A	A	C	D	D	C

Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In the following questions, which figure should replace question mark.

1.





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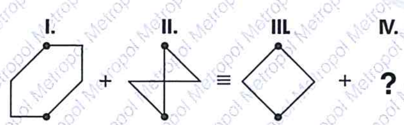

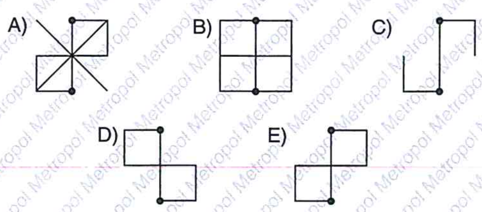

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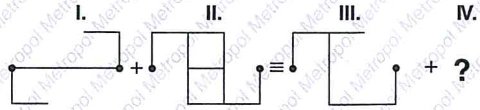

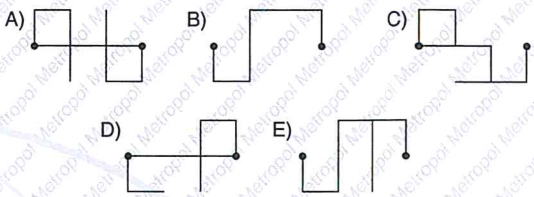

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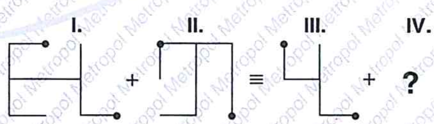

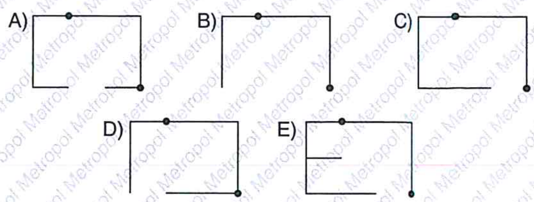

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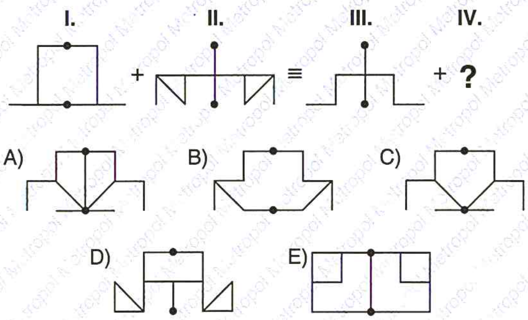

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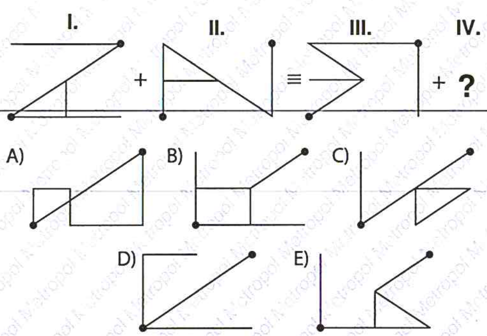

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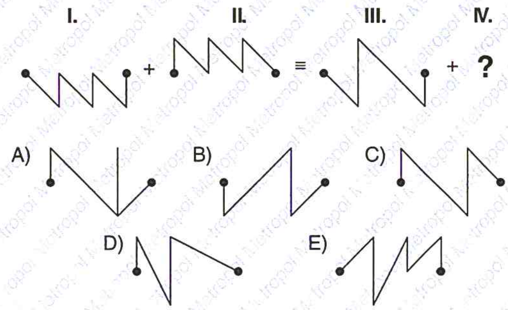

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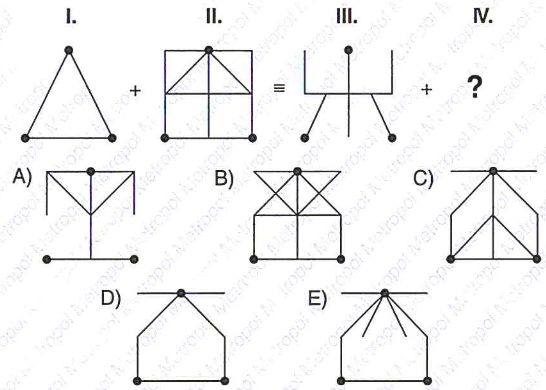


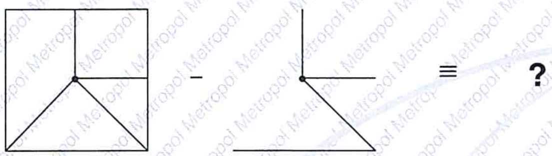
YANITLAR / ANSWERS

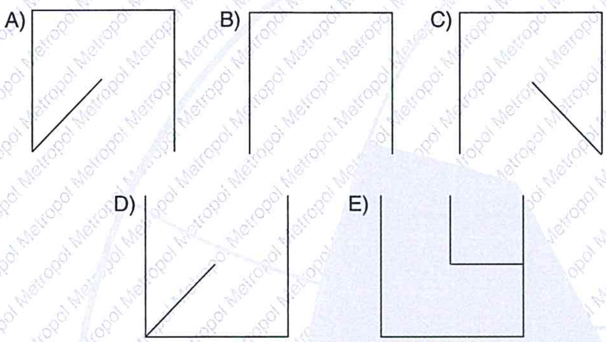
1	2	3	4	5	6	7	8
B	E	D	E	B	E	C	E

Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In the following questions, which figure should replace question mark.

1. I. II. III.





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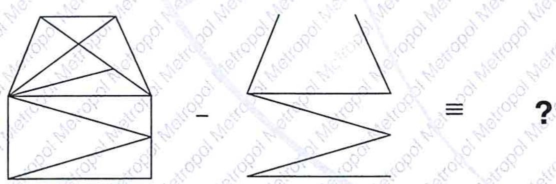

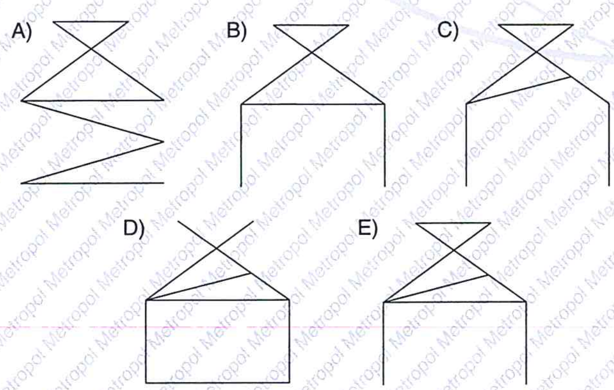

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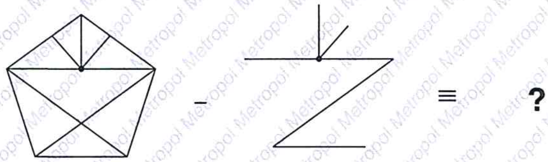

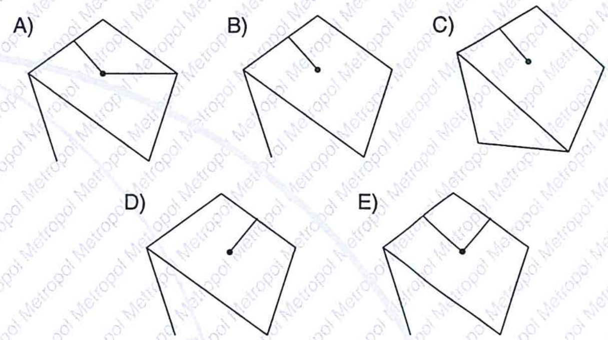

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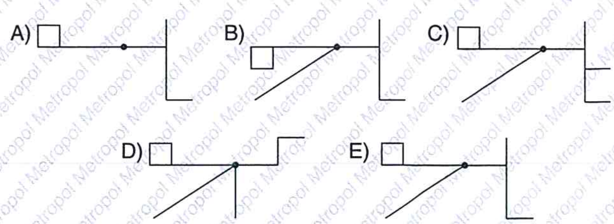

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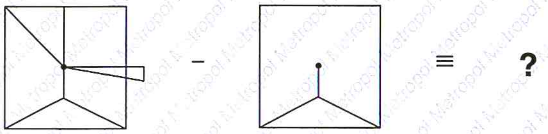
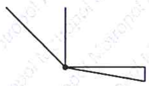
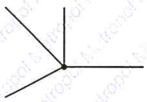
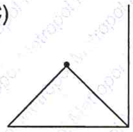
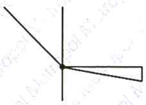
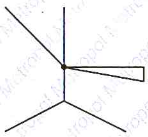


A) 

B) 

C) 

D) 

E) 

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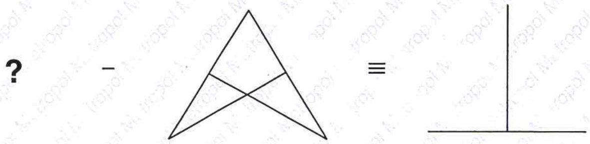
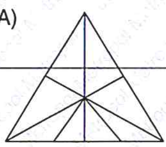
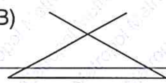
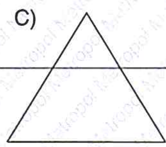
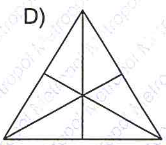
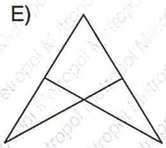


A) 

B) 

C) 

D) 

E) 

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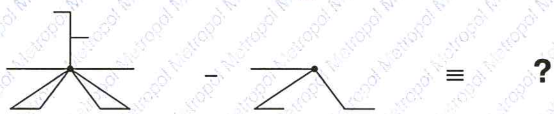
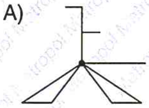


A) 

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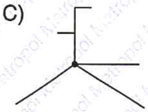
C) 

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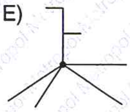
E) 

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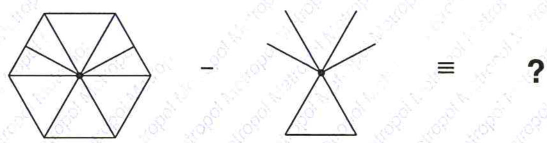
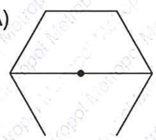
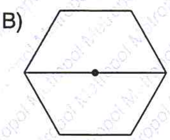
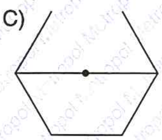
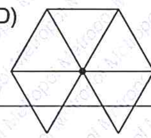
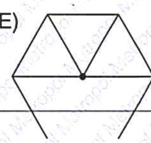


A) 

B) 

C) 

D) 

E) 

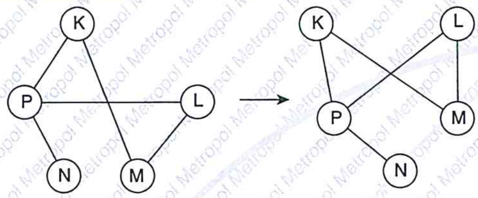
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	C	B	E	A	D	D	A

Aşağıdaki soruları örnekte verilen kurala göre cevaplayınız.

Answer the following questions according to the given rule in example.

ÖRNEK / EXAMPLE:



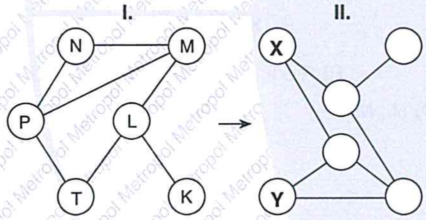
Şekil I Figure I

Şekil II Figure II

K, L, M, N ve P harfleri I. şekildeki gibi birbirine bağlanmıştır. I. şekildeki bağlantı sayıları ve birbirine bağlanan harfler değişmemek koşuluyla II. şekil elde edilmiştir.

The letters K, L, M, N and P are linked as in figure I. figure II. has been constructed so as not to change the number of links and the letters that are linked to each other in figure I.

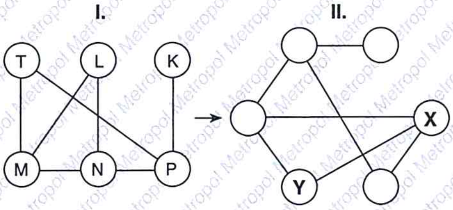
1. I. II.



⇒ **X = ? ; Y = ?**

A) T ; P
B) P ; N
C) P ; M
D) T ; N
E) L ; N

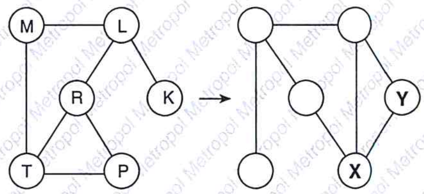
2. I. II.



⇒ **X = ? ; Y = ?**

A) N ; L
B) P ; L
C) M ; T
D) N ; P
E) M ; L

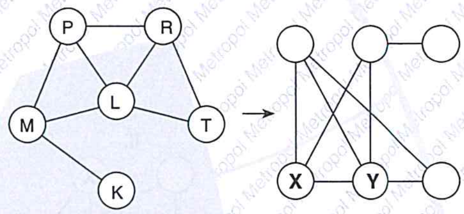
3. I. II.



⇒ **X = ? ; Y = ?**

A) M ; R
B) R ; P
C) T ; L
D) T ; P
E) R ; M

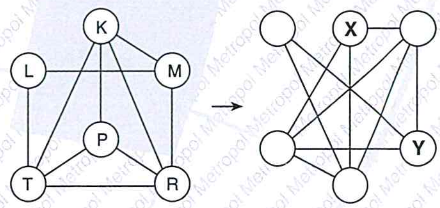
4. I. II.



⇒ **X = ? ; Y = ?**

A) P ; L
B) P ; T
C) R ; T
D) L ; M
E) L ; T

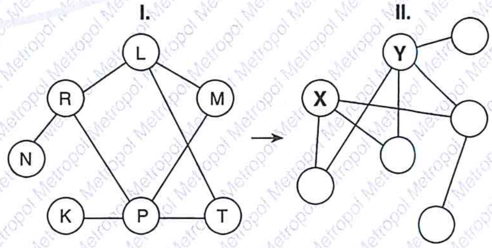
5. I. II.



⇒ **X = ? ; Y = ?**

A) P ; R
B) R ; L
C) L ; T
D) P ; M
E) T ; M

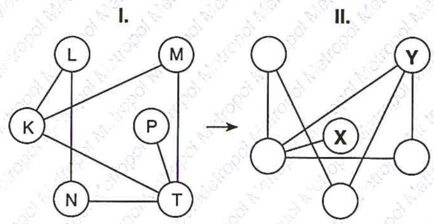
6. I. II.



⇒ **X = ? ; Y = ?**

A) K ; R
B) R ; M
C) P ; L
D) P ; R
E) L ; P

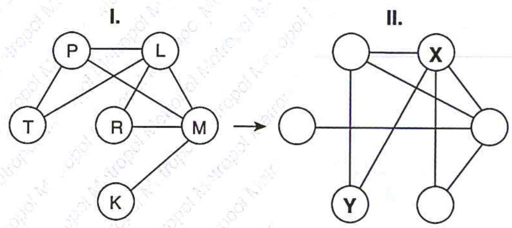
7.



⇒ X = ? ; Y = ?

	X	Y
A)	P	M
B)	P	T
C)	L	K
D)	K	P
E)	P	K

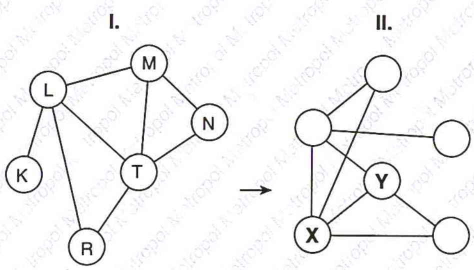
8.



⇒ X = ? ; Y = ?

	X	Y
A)	M	P
B)	L	M
C)	L	T
D)	T	L
E)	T	P

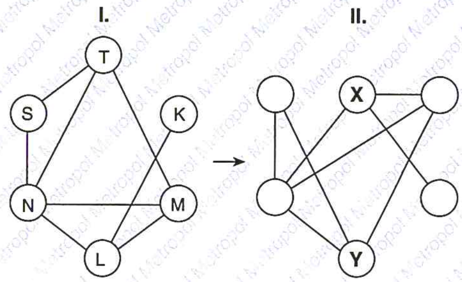
9.



⇒ X = ? ; Y = ?

	X	Y
A)	L	N
B)	L	R
C)	M	N
D)	T	M
E)	T	R

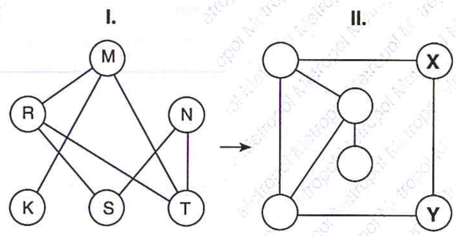
10.



⇒ X = ? ; Y = ?

A) S ; N B) L ; M C) L ; T D) M ; T E) M ; S

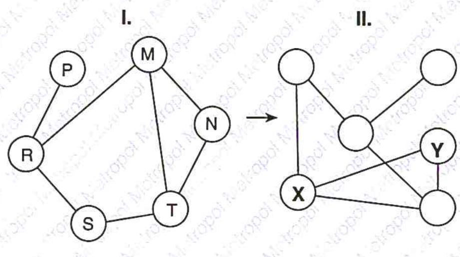
11.



⇒ X = ? ; Y = ?

A) R ; N B) R ; T C) T ; S D) N ; M E) N ; S

12.



⇒ X = ? ; Y = ?

A) R ; N B) M ; S C) T ; N D) R ; M E) S ; N

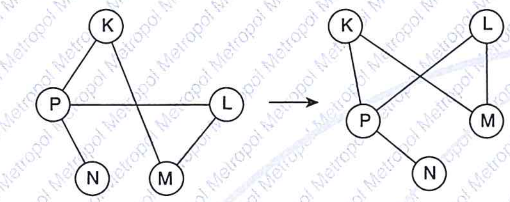
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	D	A	D	E	E	C	D	C	E	C

Aşağıdaki soruları örnekte verilen kurala göre cevaplayınız.

Answer the following questions according to the given rule in example.

ÖRNEK / EXAMPLE:



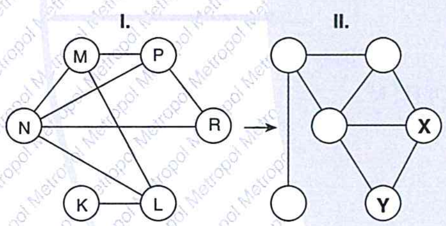
Şekil I Figure I

Şekil II Figure II

K, L, M, N ve P harfleri I. şekildeki gibi birbirine bağlanmıştır. I. şekildeki bağlantı sayıları ve birbirine bağlanan harfler değişmemek koşuluyla II. şekil elde edilmiştir.

The letters K, L, M, N and P are linked as in figure I. figure II. has been constructed so as not to change the number of links and the letters that are linked to each other in figure I.

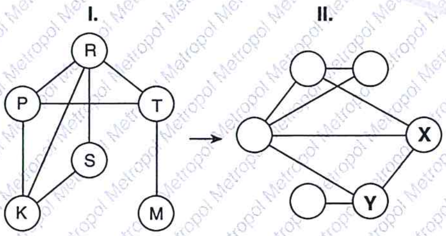
1.



⇒ **X = ? ; Y = ?**

A) R ; M B) R ; P C) M ; P D) P ; L E) P ; R

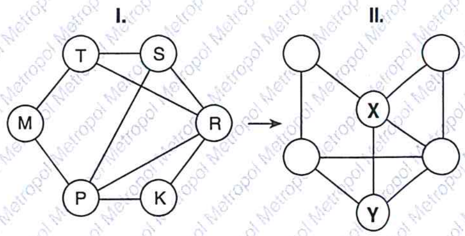
2.



⇒ **X = ? ; Y = ?**

A) P ; S B) R ; T C) P ; T D) P ; R E) S ; T

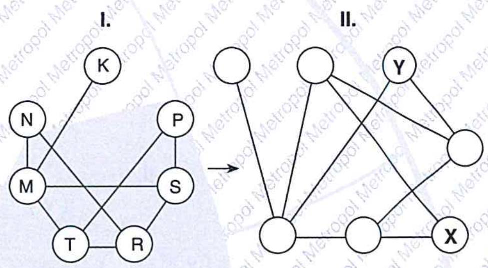
3.



⇒ **X = ? ; Y = ?**

A) P ; T B) P ; S C) R ; T D) R ; S E) T ; R

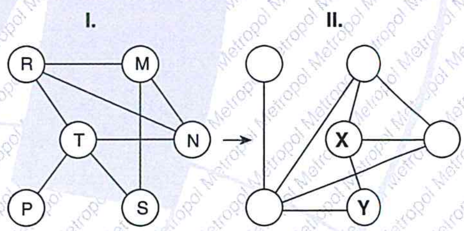
4.



⇒ **X = ? ; Y = ?**

A) P ; S B) S ; M C) M ; N D) P ; N E) N ; M

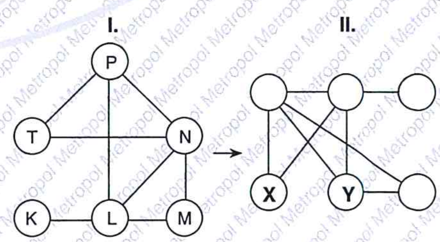
5.



⇒ **X = ? ; Y = ?**

A) M ; N B) N ; R C) R ; S D) M ; S E) R ; N

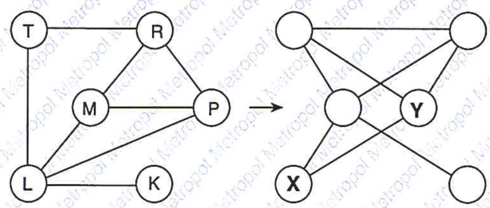
6.



⇒ **X = ? ; Y = ?**

A) M ; L B) M ; P C) T ; P D) T ; N E) L ; N

7.

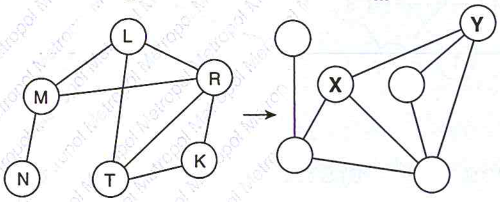


⇒ X = ? ; Y = ?

	X	Y
A)	P	L
B)	M	L
C)	P	R
D)	T	R
E)	M	R

8.

I. II.

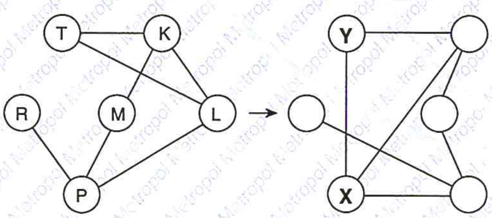


⇒ X = ? ; Y = ?

	X	Y
A)	T	L
B)	M	L
C)	L	T
D)	M	T
E)	L	K

9.

I. II.

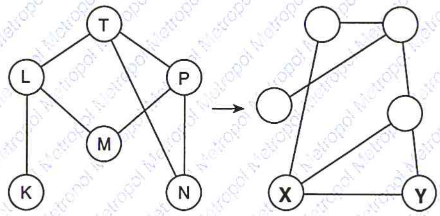


⇒ X = ? ; Y = ?

	X	Y
A)	M	P
B)	P	L
C)	L	T
D)	T	K
E)	L	M

10.

I. II.



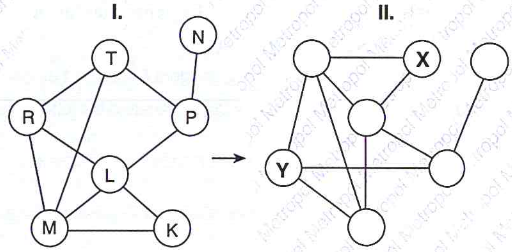
⇒ X = ? ; Y = ?

A) P ; M B) P ; N C) T ; N

D) T ; L E) T ; M

11.

I. II.



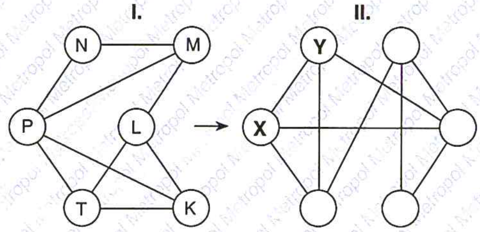
⇒ X = ? ; Y = ?

A) K ; M B) L ; T C) R ; P

D) R ; M E) K ; T

12.

I. II.



⇒ X = ? ; Y = ?

A) T ; L B) P ; N C) P ; M

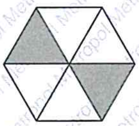
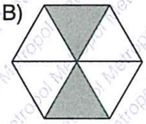
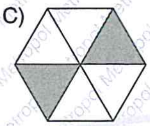
D) K ; L E) T ; K

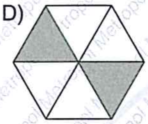
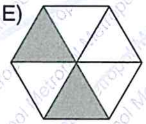
YANITLAR / ANSWERS

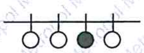
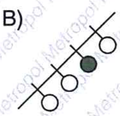
1	2	3	4	5	6	7	8	9	10	11	12
E	C	B	D	D	B	D	C	C	B	E	E

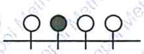
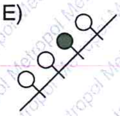
Aşağıdaki sorularda farklı olan şekli bulunuz.

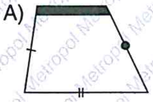
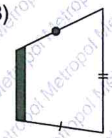
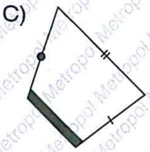
Find the different figure in the following questions.

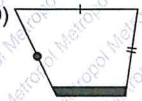
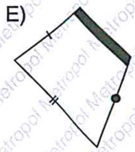
1. A)  B)  C) 

D)  E) 

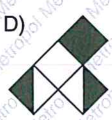
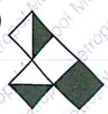
2. A)  B)  C) 

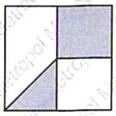
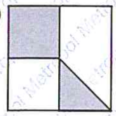
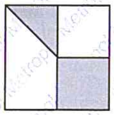
D)  E) 

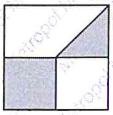
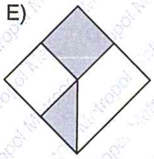
3. A)  B)  C) 

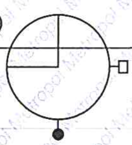
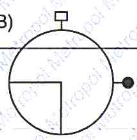
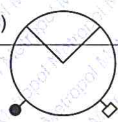
D)  E) 

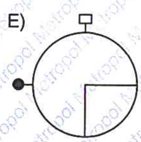
4. A)  B)  C) 

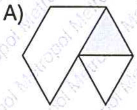
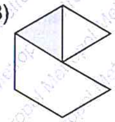
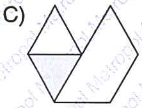
D)  E) 

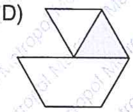
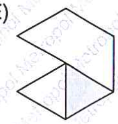
5. A)  B)  C) 

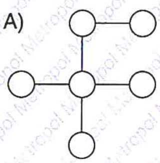
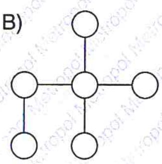
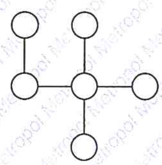
D)  E) 

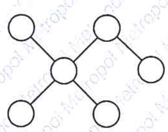
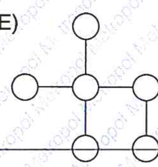
6. A)  B)  C) 

D)  E) 

7. A)  B)  C) 

D)  E) 

8. A)  B)  C) 

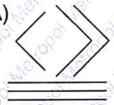
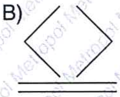
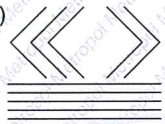
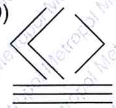
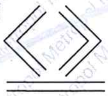
D)  E) 

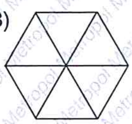
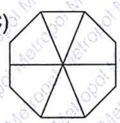
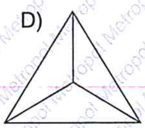
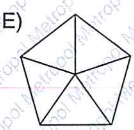
YANITLAR / ANSWERS

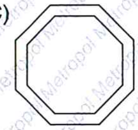
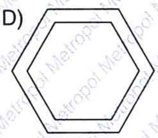
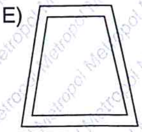
1	2	3	4	5	6	7	8
E	E	D	E	A	E	D	B

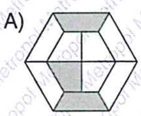
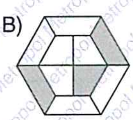
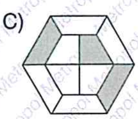
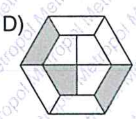
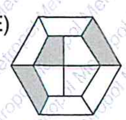
Aşağıdaki sorularda farklı olan şekli bulunuz.

Find the different figure in the following questions.

1. A)  B)  C) 
D)  E) 

2. A)  B)  C) 
D)  E) 

3. A)  B)  C) 
D)  E) 

4. A)  B)  C) 
D)  E) 

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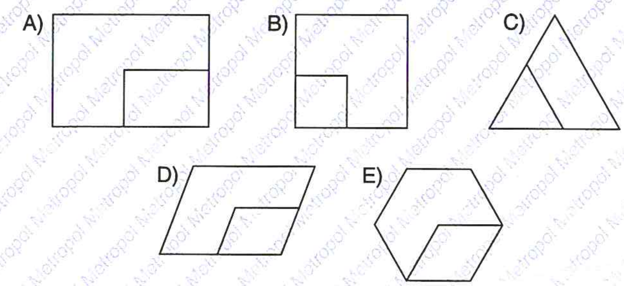

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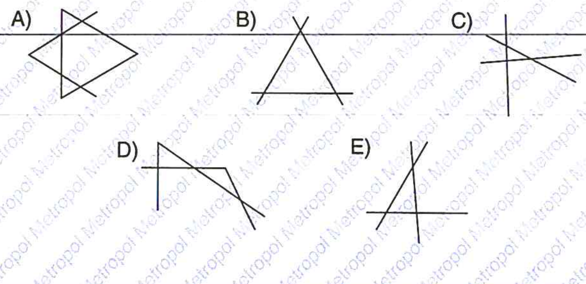

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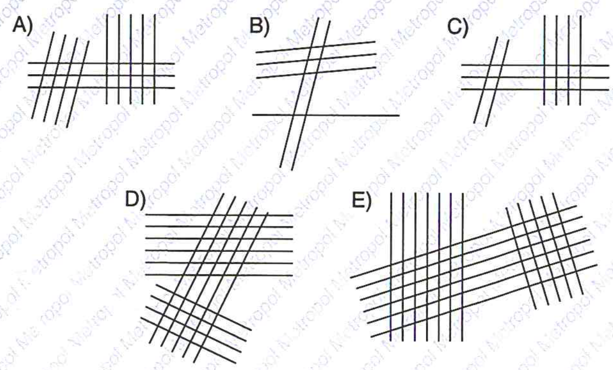

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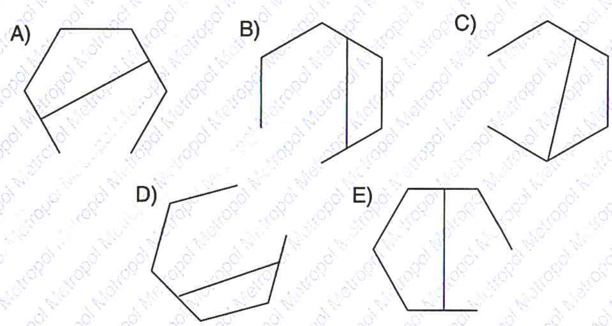
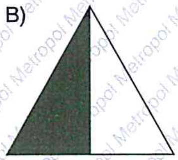
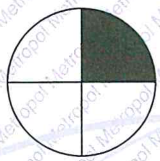


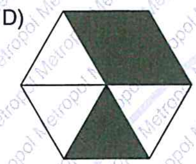
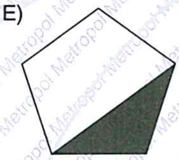
YANITLAR / ANSWERS

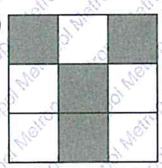
1	2	3	4	5	6	7	8
E	C	E	A	E	A	A	C

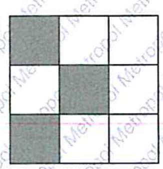
Aşağıdaki sorularda farklı olan şekli bulunuz.

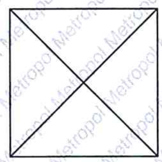
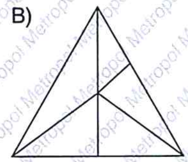
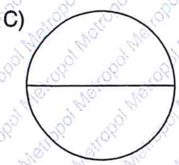
Find the different figure in the following questions.

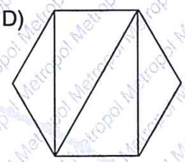
1. A)  B)  C) 

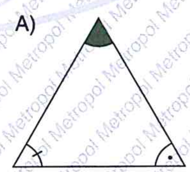
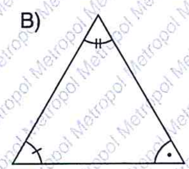
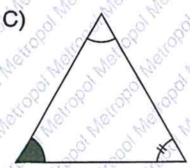
D)  E) 

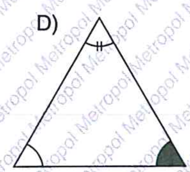
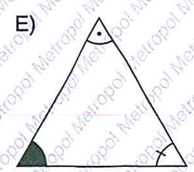
2. A)  B)  C) 

D)  E) 

3. A)  B)  C) 

D)  E) 

4. A)  B)  C) 

D)  E) 

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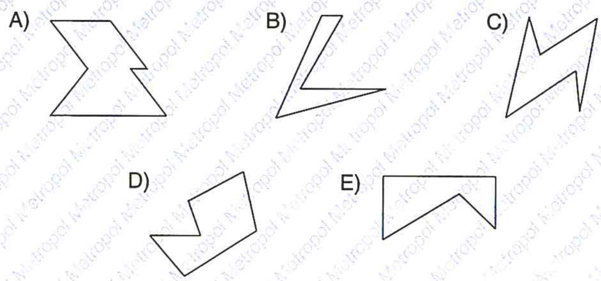

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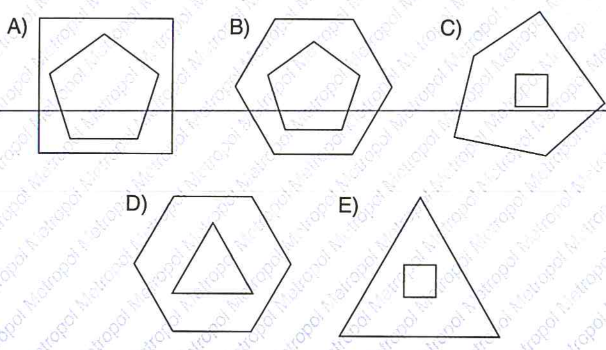

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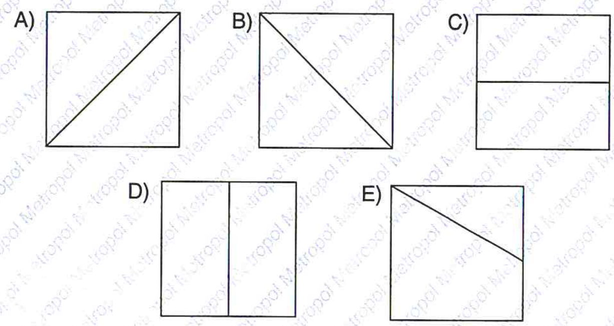

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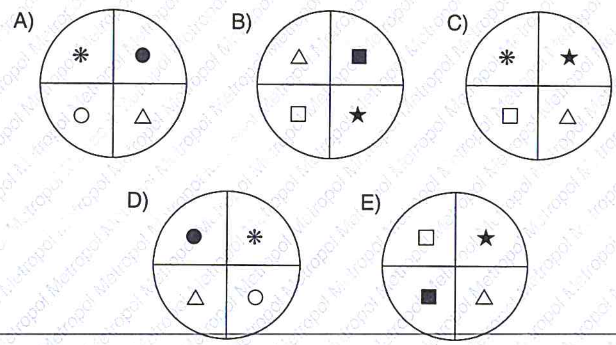


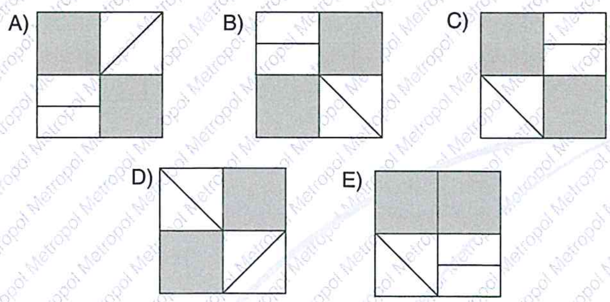
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	B	B	B	A	D	E	C

Aşağıdaki sorularda farklı olan şekli bulunuz.

Find the different figure in the following questions.

1.



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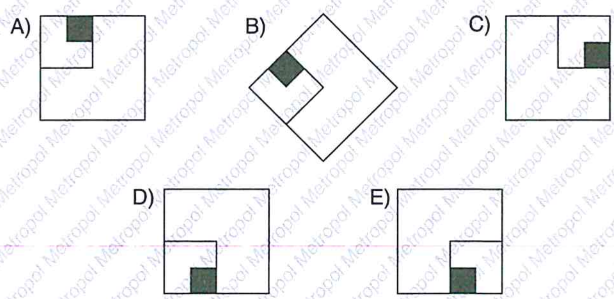

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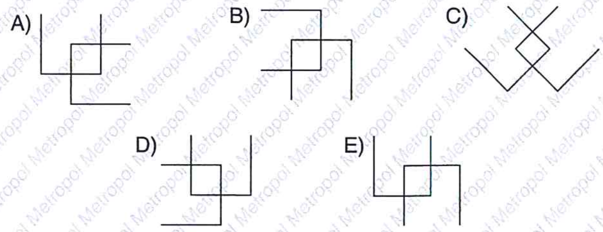

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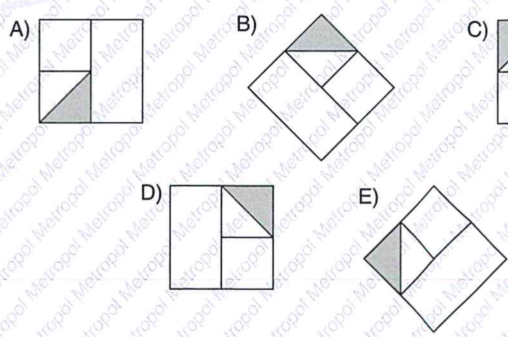

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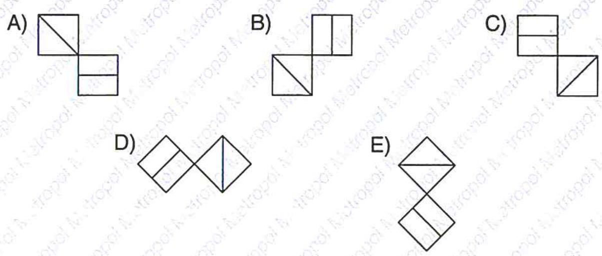

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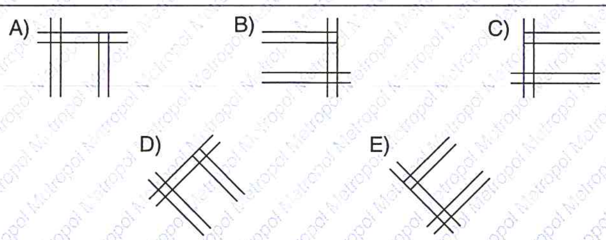

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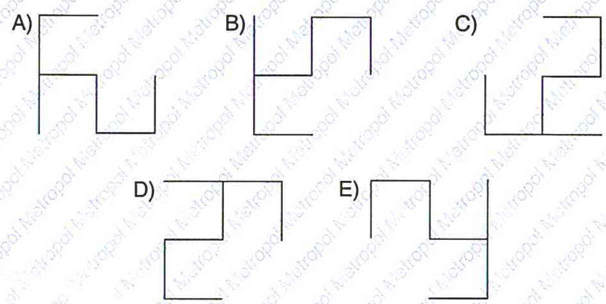

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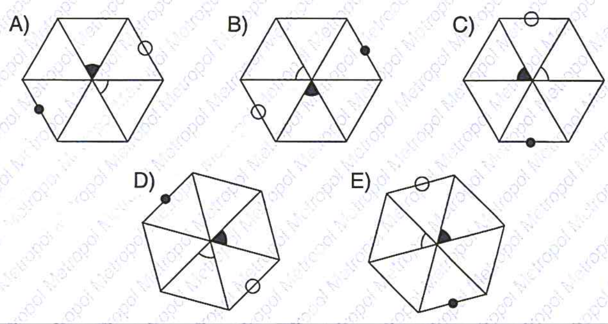

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	D	E	A	A	B	B	E

1.

					Sonuç (Result)
✇	✇	❏	✆	○	✇○
✆	✇	❏	✆	○	✆○
❏	○	○	✇	✆	?

A) ❏ ✆ B) ○○ C) ✇ ✆ D) ○ ✆ E) ✇ ○

2.

					Sonuç (Result)
K	N	L	T	M	NT
L	L	K	N	T	LN
L	T	M	N	K	?

A) TN B) LT C) MN D) MN E) KL

3.

				Sonuç (Result)
□	❏	○	▲	▲○
x	y	z	x	xz
a	b	c	b	bc
❏	▲	●	●	?

A) ❏ ▲ B) ❏ ● C) ▲ ● D) ● ● E) ●

4.

					Sonuç (Result)
A	C	B	C	C	AB
B	B	C	A	B	CA
B	C	C	A	B	A
B	C	A	B	C	?
A	A	C	C	B	B

A) A B) B C) C D) BA E) AB

5.

✏	❐	❈	★
❐	■	✪	✚
✪	✚	❐	▲
▲	■	✚	✪
?	✚	❐	▲

Sonuç (Result)

A) ✪ B) ✚ C) ❐ D) ▲ E) ■

6.

				Sonuç (Result)
B	C	D	A	?
A	B	C	D	C
B	E	D	A	E
D	C	E	B	D

A) E B) D C) C D) B E) A

7.

	KTM	TNL	MLN	NKM
LNK	NT	—	NL	NK
NTM	**X**	TN	TL	TK
LKT	KT	KN	**Y**	—

⇒ X; Y = ?

A) TT ; KL
B) TN ; ML
C) — ; KN
D) — ; KL
E) NK ; LM

8.

	KLMN	TVRK	LKTN
NMK	LKN		**?**
LTV		VVL	
NML	LLN		KLN

A) KNN
B) TNM
C) MTN
D) KKN
E) LKV

9.

				Sonuç (Result)
KL	LN	MN	RT	LNR
MT	**Y**	KR	VK	VRV
LN	KM	TR	NK	**X**
VV	KK	LM	NR	KMN
RL	NL	MK	UT	NKU

⇒ X; Y = ?

A) LRN ; VT
B) TVR ; VV
C) KLN ; VT
D) KRM; TV
E) KRN; VM

10.

						Sonuç (Result)
	❤	☮	✿	✺	☆	✿
	✿	✺	☮	☆	✺	☮
	☆	❤	✺	✿	☆	✺
	❤	☮	✿	☆	✺	✿
	☮	☆	❤	✺	✿	**A**
	☆	✿	☮	✺	❤	☮
Sonuç (Result)	☮	☆	**B**	✺	✿	

⇒ A ; B = ?

A) ☆ ; ❤
B) ✿ ; ✺
C) ✺ ; ❤
D) ❤ ; ☮
E) ❤ ; ❤

11.

	1●△▲	2○●□	1●△■
3●●○	●○	●○	**K**
2△□○	**L**	●□	●□
1△▲■	●△	**M**	●△

⇒ K; L; M = ?; ?; ?

A) ●○; □●; ●△
B) □○; ●□; ●△
C) ●○; ●■; ●△
D) ●○; ●□; △●
E) ●○; ●□; ●△

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11
A	A	D	A	A	E	D	D	E	E	E

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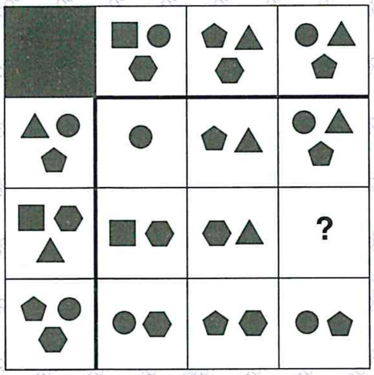
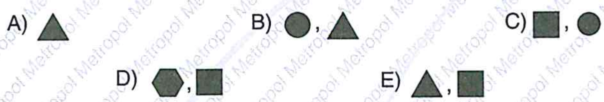
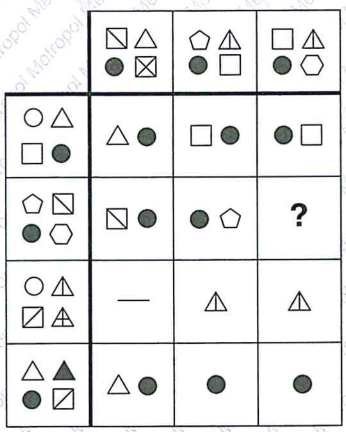
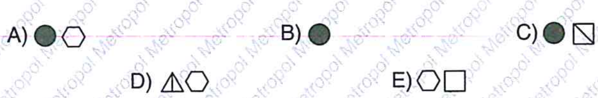
1.



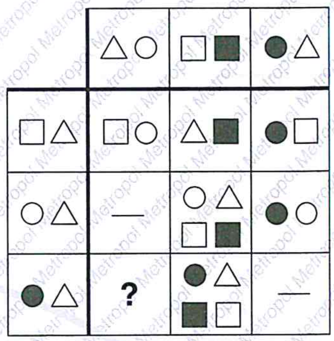


2.





3.



4.

	XYZ	ZTV	YVX
TZX	TY	XV	
XTV		?	
YVT		YZ	TX

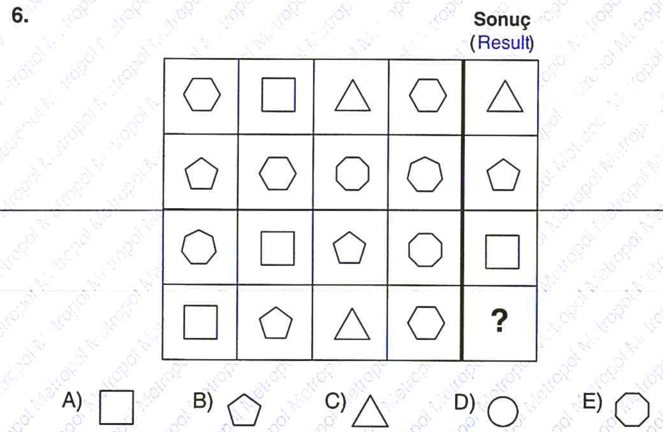
A) XZ B) XY C) TV D) ZV E) VX

5.

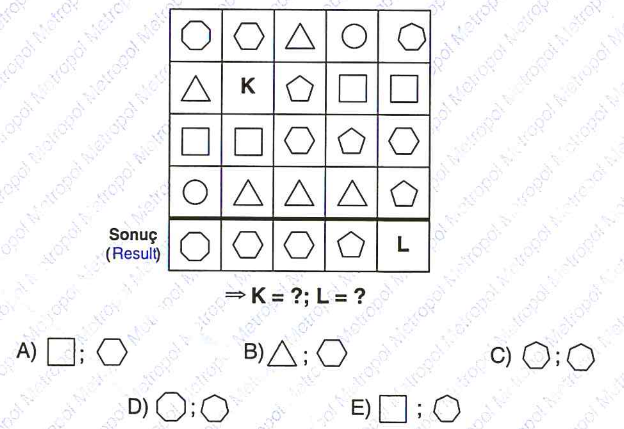
	KLM	LKN	MTK
NLK	KL	KLN	K
MNT	M	?	MT
TKM	KM	K	MTK

A) K B) N C) KN D) KLN E) NTM

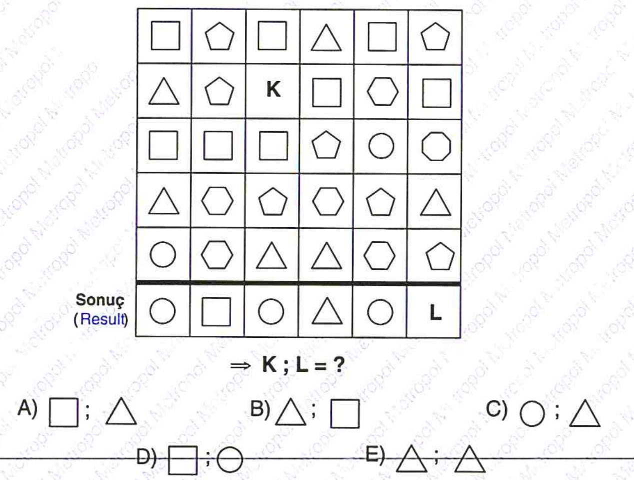
6.



7.



8.



YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	A	C	A	B	C	E	C

1.

▲	●	□	□	▲	⊠
▲	●	⬢	⊠	□	⊠
○	■	⊠	□	●	▲
■	■	⬢	●	□	●
▲	▲	⬢	●	▲	⊠
⊠	■	▲	●	□	□
▲	■	⬢	●	□	**?**

Sonuç (Result): last row

A) ▲ B) ● C) □ D) ⬢ E) ⊠

3.

					Sonuç (Result)
K	L	K	N	T	K
M	N	M	N	K	M
V	L	K	L	M	L
V	V	M	M	M	V
K	N	N	L	K	**X**
M	V	N	M	**Y**	

Sonuç (Result): last row

⇒ X; Y = ?

A) K; N B) N; M C) K; T D) N; T E) K; M

2.

△	□	⬠	○	⬡
□	○	△	△	□
○	⬡	○	**L**	□
△	△	□	□	⬡
⬠	□	○	⬠	□
△	**K**	○	⬠	⬡

Sonuç (Result): last row

⇒ K ; L = ?

A) △; ⬠ B) ⬠; ⬠ C) □; ⬠ D) □; □ E) △; □

4.

❤	●	▲	■	✪	❀
●	■	❀	▲	●	✪
▲	❀	●	✪	■	▲
■	▲	✪	❀	❀	●
✪	●	■	❀	▲	✪
❀	✪	▲	●	✪	■

⇒ ((● ❤ ✪) ❤ (■ ❤ ❀)) ❤ ▲ = ?

A) ❀ B) ▲ C) ● D) ✪ E) ■

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5.

❀	△	□	○	⬡	⬠
△	○	⬡	⬠	△	□
□	⬡	△	○	⬠	□
○	⬠	○	□	△	⬠
⬡	△	⬠	△	○	⬡
⬠	□	□	⬠	⬡	⬠

⇒ (□ ❀ ○) ❀ (△ ❀ ⬠) = ?

A) △ B) ○ C) □ D) ⬡ E) ⬠

6.

⊛	▼	❑	○	●	✪
▼	●	○	✪	❑	M
❑	○	▼	●	○	❑
○	✪	●	✪	▼	L
●	❑	K	▼	○	▼
✪	❑	❑	✪	▼	❑

⇒ (K ⊛ L) ⊛ (M ⊛ L) = ?

A) ● B) ❑ C) ○ D) ✪ E) ▼

7.

■	X	Y	Z	T	V
V	**K**	Z	Z	X	Y
Y	Z	T	X	V	Z
T	V	**L**	Y	V	X
X	Y	Z	Y	V	T
Z	Y	X	T	Y	Z

⇒ (K ■ L) = ?

A) V B) T C) X D) Z E) Y

8.

●	M	N	T	K	L
M	T	K	L	N	M
N	K	L	T	M	N
T	L	T	K	L	K
K	N	M	L	M	L
L	M	N	K	L	N

((N ● X) ● (K ● M)) ● L = K ⇒ X = ?

A) M B) N C) T D) K E) L

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	C	C	D	B	B	C	C

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1.

			Sonuç (Result)
△	□	⬡	3
□	⬠	⬡	4
⬡	△	⬠	3
⬡	⬠	⬡	?

A) 2 B) 3 C) 4 D) 5 E) 6

2.

	△	△	□	□
	⬡	△	⬠	□
	⬠	□	⬠	△
Sonuç (Result)	14	10	14	?

A) 8 B) 9 C) 11 D) 13 E) 17

3.

	△	⬡	⬠	⬡
	△	△	△	⬠
	□	□	△	⬠
Sonuç (Result)	13	22	18	?

A) 24 B) 28 C) 32 D) 35 E) 40

4.

			Sonuç (Result)
⬡	△	□	6
□	⬡	△	8
□	□	⬡	2
⬡	⬡	□	?

A) 9 B) 10 C) 11 D) 12 E) 13

5.

△	⬡	□	⬠	⬠	10
□	△	⬡	⬠	□	9
□	□	⬡	⬠	△	8
⬡	⬠	⬠	□	□	8
△	⬡	⬡	△	⬡	L
7	9	10	10	K	

⇒ K + L = ?

A) 17 B) 18 C) 19 D) 20 E) 21

6.

	△	□	⬡
□		8	10
⬠		–	
⬡	–		?

A) – B) 9 C) 10 D) 12 E) 14

7.

	⬠	□	△
△		2	9
□	0		
⬡		?	

A) 2 B) 5 C) 6 D) 8 E) 10

8.

	△	□	⬠
⬡	9		15
⬠	–		
□		?	

A) 2 B) 4 C) 6 D) 8 E) 10

9.

	□	△	⬡
●	15	8	K
☆	9	L	25
❄	M	9	36

	K	L	M
A)	36	4	16
B)	35	5	17
C)	35	4	16
D)	35	3	16
E)	36	4	15

10.

	↑	↓	→
△	12	16	20
□	K	L	M
⬠	18	24	30

	K	L	M
A)	16	21	26
B)	14	20	25
C)	15	20	24
D)	15	25	20
E)	15	20	25

11.

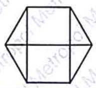
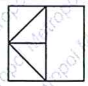
	□	⬠	⬡
△	7	K	9
□	16	9	24
⬠	9	0	L

	K	L
A)	8	15
B)	2	11
C)	15	8
D)	8	11
E)	2	30

YANITLAR / ANSWERS

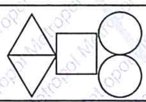
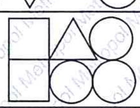
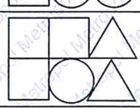
1	2	3	4	5	6	7	8	9	10	11
D	C	D	D	C	D	D	D	C	E	B

1.

	I.	II.	III.
	6	4	2
	4	4	1
	K	L	M

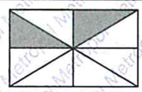
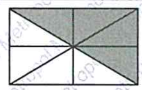
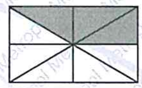
	K	L	M
A)	5	3	1
B)	4	4	0
C)	5	3	0
D)	6	2	1
E)	5	4	0

2.

	●	△	□
	1	L	2
	K	3	1
	3	1	M

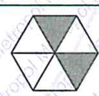
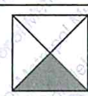
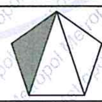
	K	L	M
A)	2	1	3
B)	2	3	2
C)	3	1	2
D)	2	1	2
E)	2	2	2

3.

	I.	II.	III.
	2	6	12
	4	4	M
	K	L	15

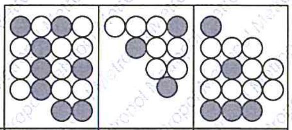
	K	L	M
A)	3	5	16
B)	3	4	7
C)	3	5	8
D)	5	3	15
E)	4	3	12

4.

	I.	II.	III.
	6	2	8
	K	3	M
	5	L	7

	K	L	M
A)	4	2	6
B)	4	2	7
C)	4	3	6
D)	3	2	6
E)	3	2	7

5.

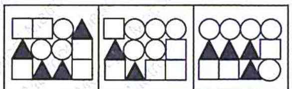


I.	2	4	S
II.	L	$\frac{7}{3}$	2
III.	M	3	5

$\Rightarrow$ **S·L·M = ?**

A) 40 B) 43 C) 45 D) 50 E) 55

6.

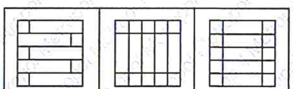


I.	8	K	8
II.	L	7	9
III.	9	7	M

$\Rightarrow$ **K + L + M = ?**

A) 21 B) 22 C) 23 D) 24 E) 25

7.

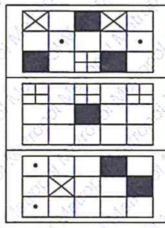


●	5	5	x
▲	5	y	10
✻	z	15	15

$\Rightarrow$ **x, y, z = ?, ?, ?**

A) 15, 5, 10 B) 5, 10, 10 C) 10, 5, 10 D) 5, 10, 15 E) 10, 10, 15

8.

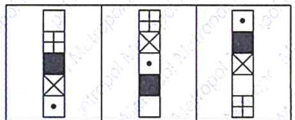


	I.	II.	III.
	5	2	M
	3	L	1
	K	1	2

$\Rightarrow$ **K + L + M = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

9.

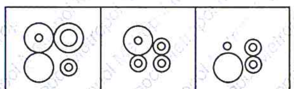


I.	3	4	K
II.	L	3	1
III.	1	5	M

$\Rightarrow$ **K + L + M = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

10.



I.	2	K	3
II.	L	1	1
III.	2	M	2

$\Rightarrow$ **K, L, M = ?, ?, ?**

A) 4, 3, 3 B) 4, 2, 3 C) 3, 4, 3 D) 2, 4, 3 E) 4, 1, 3

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	E	A	B	D	D	B	C	D	A

Aşağıdaki sorularda tablolarda yer alan I, II ve/veya III ilgili tablonun farklı birer parçasıdır. Buna göre soru işaretlerini bulunuz.

In the following questions, segments I, II and/or III are each a different part of the tables. Accordingly find the question marks.

1.

□	○	×	○	□
□	×	✳	×	△
○	✳	△	△	□
✳	○	□	□	△
○	□	✳	△	○

I.

K	
K	L

II.

M	M
K	K

III.

K	M
M	?

A) □ B) ○ C) × D) ✳ E) △

2.

3	2	1	4	7	3
2	3	1	5	7	8
9	0	6	5	5	9
6	7	8	9	0	1
5	6	7	8	9	0
6	6	5	4	3	2

I.

X	K	Y
K	X	Y

II.

	X	
9	L	M

III.

9	**L**
x	**K**

⇒ **(L, M) = (?, ?)**

A) (3, 6) B) (4, 6) C) (0, 5) D) (0, 6) E) (6, 0)

3.

●	▲	▲	△	□
○	▲	△	■	■
○	△	□	■	●
▲	●	□	△	○
△	○	■	▲	▲

I.

K	K
K	L

II.

	L
K	**M**

⇒ **M = ?**

A) ● B) ▲ C) △ D) □ E) ○

4.

∞	∈	Σ	8	w	8
∞	Σ	π	w	8	π
∈	e	π	w	8	∞
e	∈	e	8	∞	π
π	∞	Σ	e	e	w
∈	∞	Σ	w	Σ	w

I.

K	K	L
L	**x**	L

II.

m		m
	m	

III.

w	m
m	**y**

⇒ **(x, y)**

A) 8, π B) w, ∞ C) Σ, 8 D) Σ, ∞ E) ∈, ∞

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5.

K	L	K	L	P
L	P	K	N	M
T	N	M	P	T
T	M	N	T	M
L	K	P	N	N

I.

●	▲	□
●	□	▲

⇒ ●, ▲, □ = ?, ?, ?

A) K; N; M B) T; M; N C) T; N; M
D) K; P; N E) T; N; P

6.

□	●	■	△	▲
○	□	△	▲	■
●	■	▲	□	□
○	□	△	■	■
▲	■	□	▲	●

I.

L	△
△	K

II.

	K
K	M

⇒ K, L, M = ?, ?, ?

A) ▲, ○, □ B) ●, ■, □ C) ●, ■, □
D) ▲, □, ■ E) ▲, ■, □

7.

5	3	3	2	1
3	5	2	3	5
3	5	1	2	5
2	3	1	2	5
4	4	3	1	2

I.

L	K
L	K
M	L

II.

K	T
T	K

⇒ (T, M) = (?, ?)

A) (3, 2) B) (1, 3) C) (3, 5)
D) (3, 1) E) (2, 3)

8.

+	◺	×	+	E
Ш	×	◺	Ш	E
E	+	×	◺	E
+	×	+	Ш	Ш
E	+	×	+	◺

I.

□	□
☆	✳

II.

✳	●
●	✳

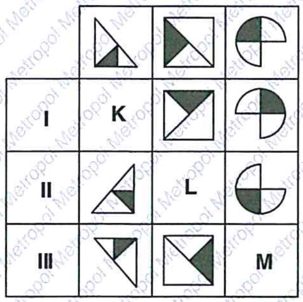
⇒ ●, ✳, □ = ?, ?, ?

	●	✳	□
A)	×	◺	+
B)	×	◺	Ш
C)	+	◺	×
D)	×	Ш	◺
E)	+	E	Ш

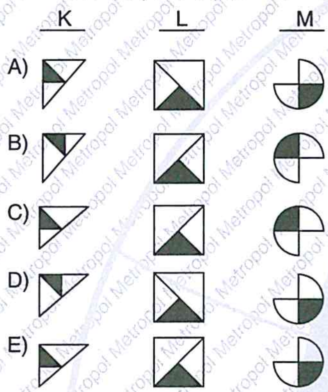
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	D	A	D	C	E	D	B

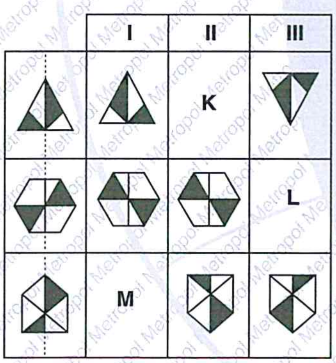
1.



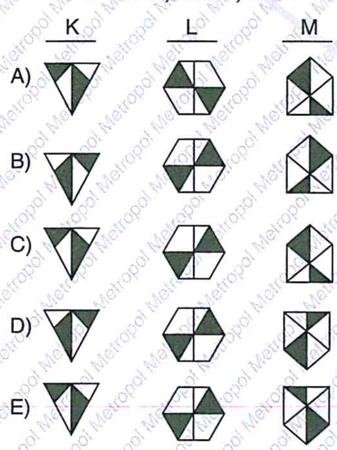
⇒ K = ? ; L = ? ; M = ?



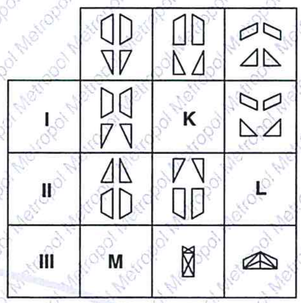
2.



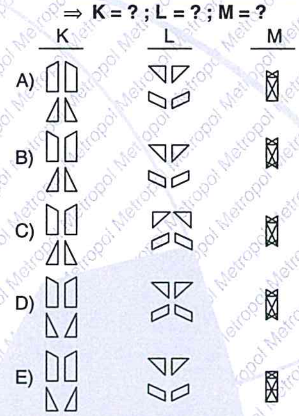
⇒ K = ? ; L = ? ; M = ?



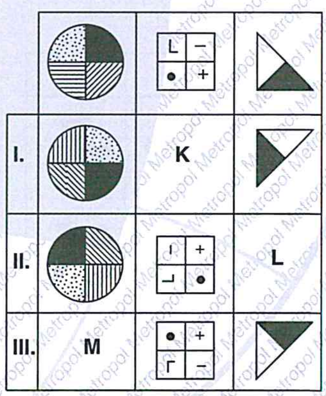
3.

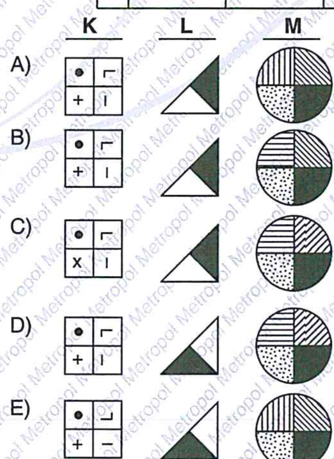


⇒ K = ? ; L = ? ; M = ?



4.





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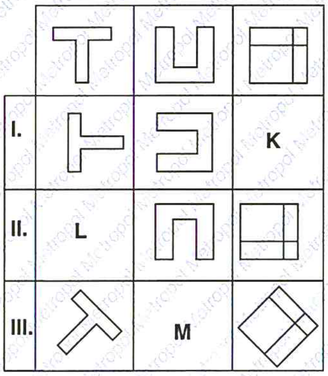

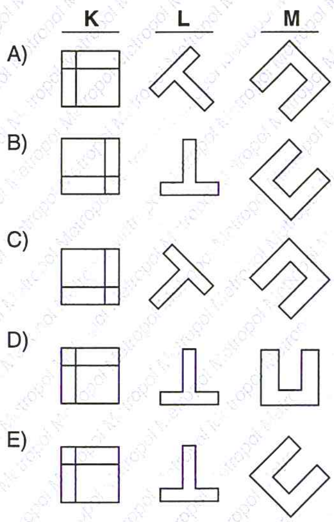

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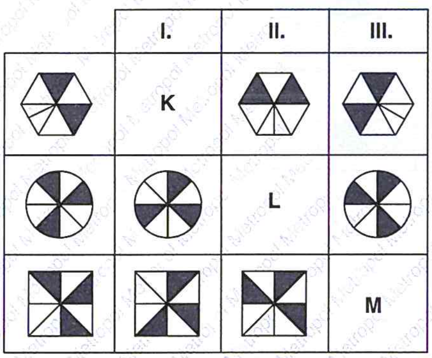

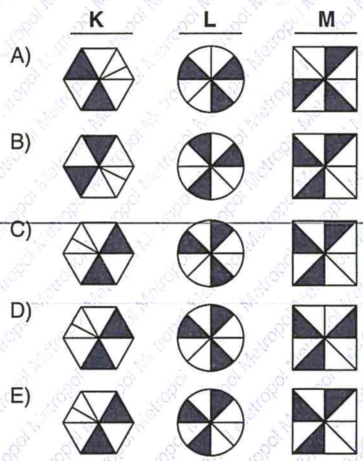

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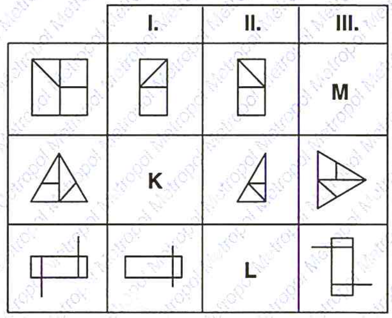

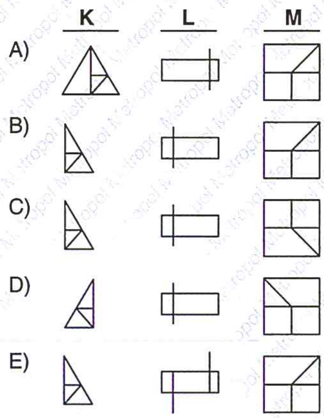

8.

	□□○△ ○○△□ △△△□	△○□△ □△○△ ○△○□	□○△□ ○□△□ □○○△
I	□□○○ □○△△ △□□△	□□□□ △△△△ ○○○○	K
II	△△□△ ○○□□ △□△△	L	□△○□ △△△○ ○□□□
III	M	○△○△ □○△○ △△□○	□△□○ ○□□○ ○△△○

⇒ K = ? ; L = ? ; M = ?

	K	L	M
A)	△○□○ ○□○△ □△□□	△□△○ □□△○ ○△△○	□○○□ △△△△ ○□△○
B)	□○○□ ○□○△ ○△□□	□△△△ □□△○ ○△△□	□○○□ △△△□ ○□△○
C)	□○○□ ○□○△ □△□□	△□△△ □□△○ ○△△□	□○□△ △△△△ ○□△○
D)	□○○□ ○□○△ □△□□	△□△△ □□△○ ○△△○	□○○□ △△△△ ○□△○
E)	□○○□ □□○△ ○△□□	△□△△ □□△○ △○△○	□○○○ △△△△ ○□△○

YANITLAR / ANSWERS

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E	C	B	B	E	C	B	D

METROPOL YAYINLARI • METROPOL PUBLICATIONS

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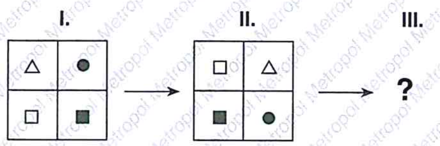

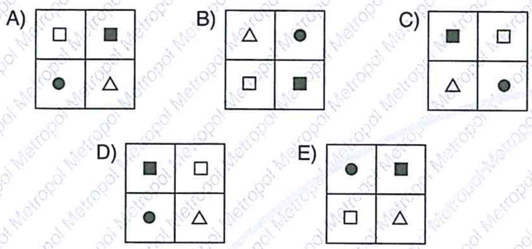

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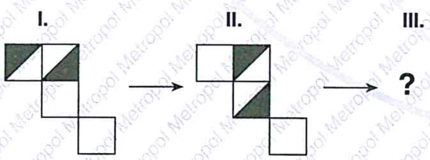

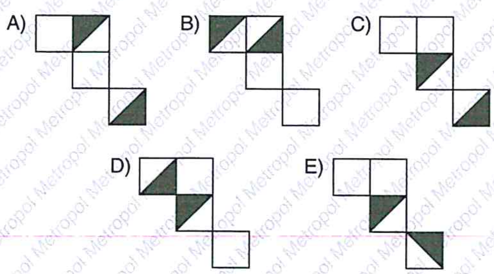

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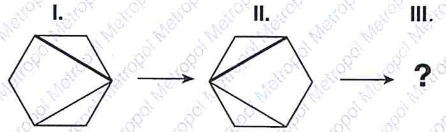

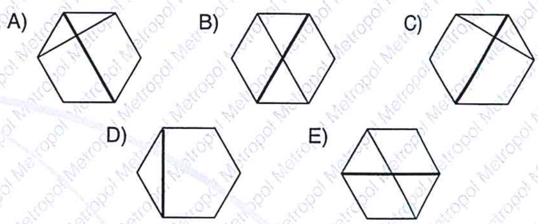

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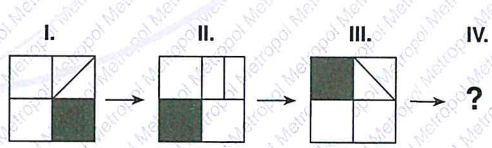

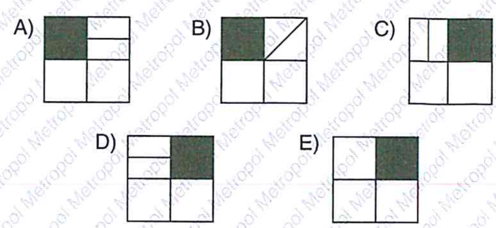

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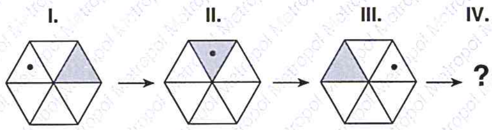

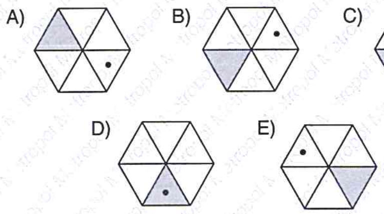

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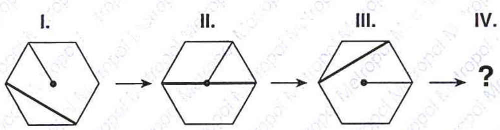

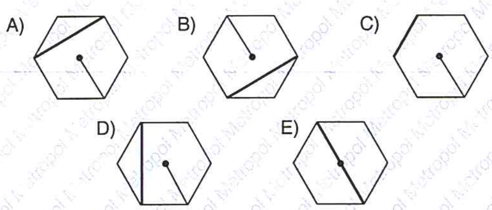

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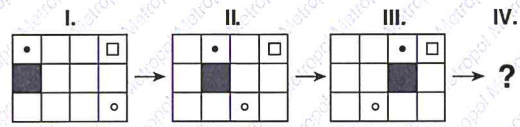

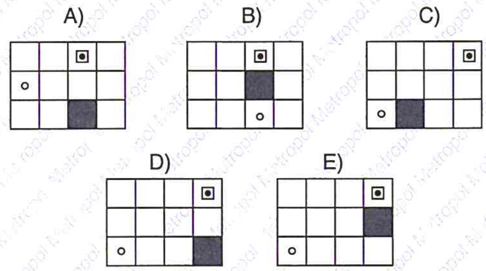

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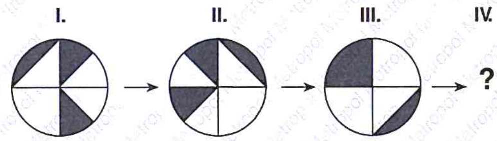

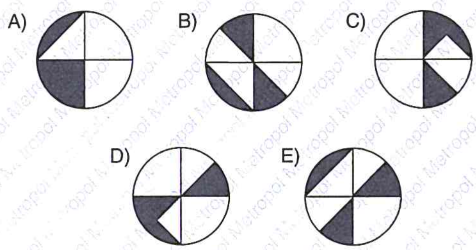

YANITLAR / ANSWERS

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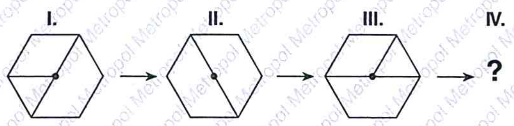
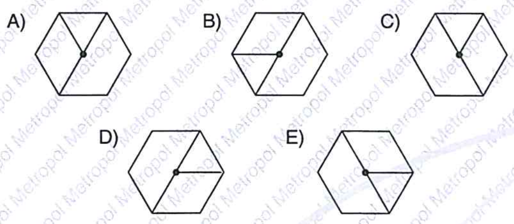
D	C	D	E	C	C	E	D

1.


I.
II.
III.
IV.
?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B)
C)
D)
E)

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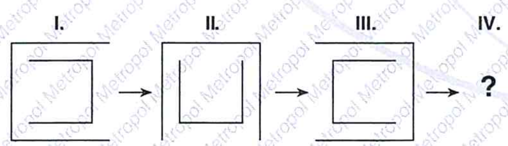
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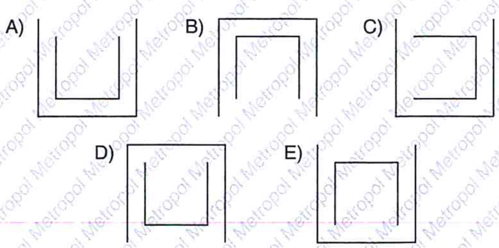
II.
III.
IV.
?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E)

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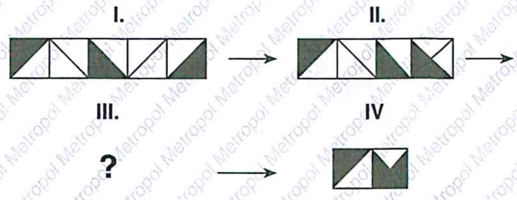
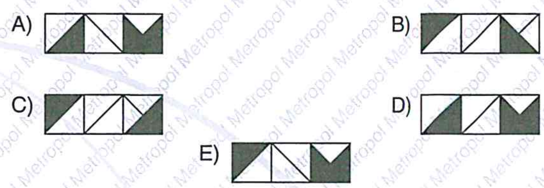

I.
II.
III.
IV
?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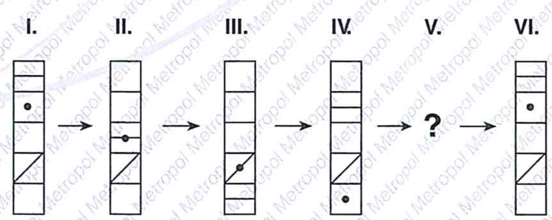
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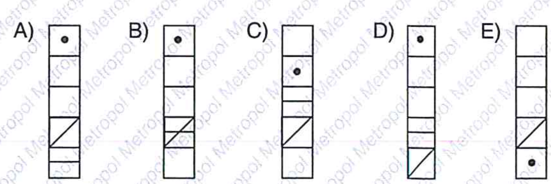
III.
IV.
V.
VI.
?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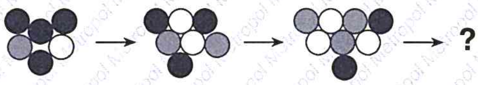

A) 

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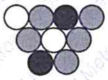
C) 

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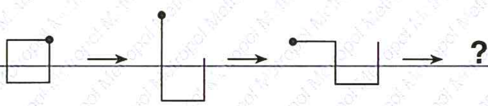
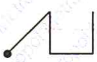


A) 

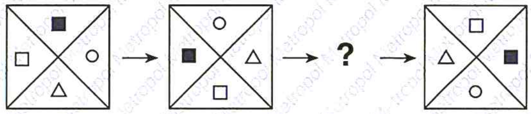
B) 

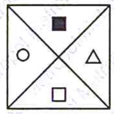
C) 

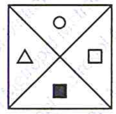
D) 

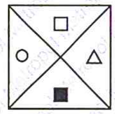
E) 

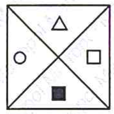
7. I. II. III. IV.

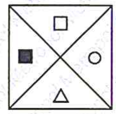


A) 

B) 

C) 

D) 

E) 

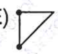
8. I. II. III. IV.

A) 

B) 

C) 

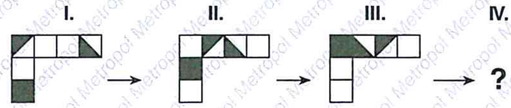
D) 

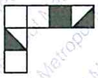
E) 

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	E	E	B	D	E	D	C

1.



A) 
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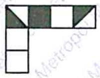
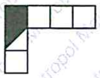
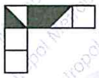
C) 
D) 
E) 

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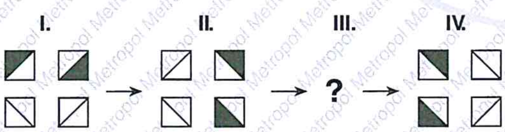
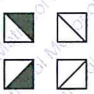
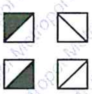


A) 
B) 
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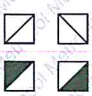
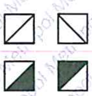
D) 
E) 

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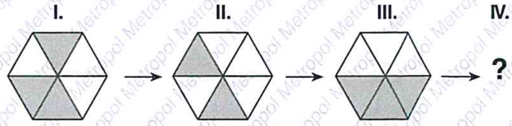
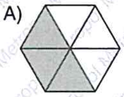
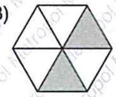
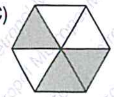
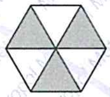
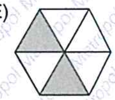


A) 
B) 
C) 
D) 
E) 

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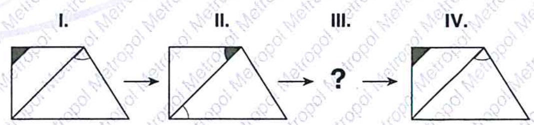

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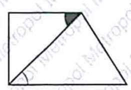
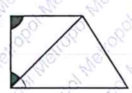
C) 
D) 
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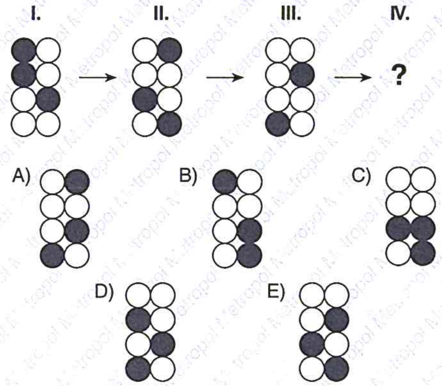

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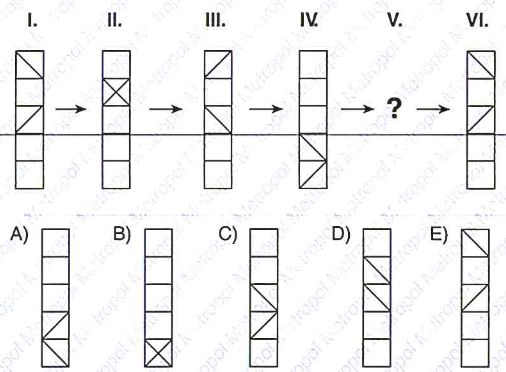

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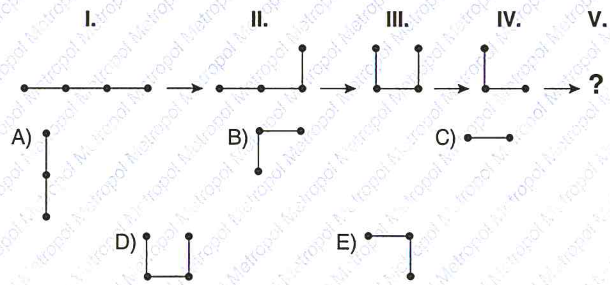

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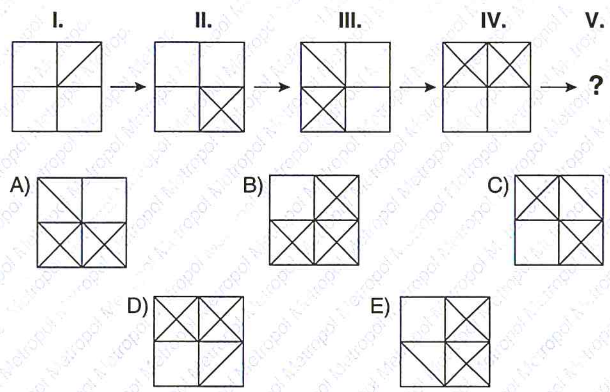
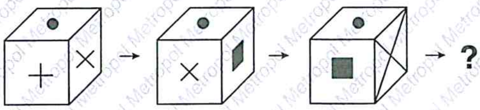
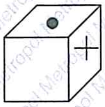
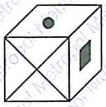


YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	D	B	E	C	A	C	E

1. 

A) 
B) 
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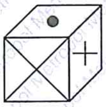
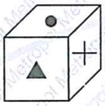
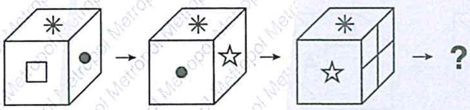
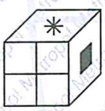
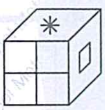
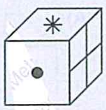
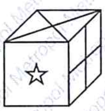
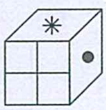
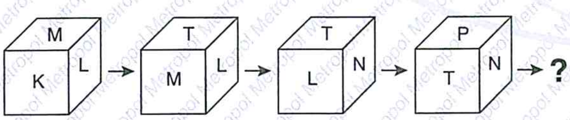
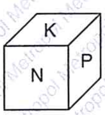
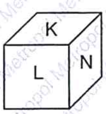
D) 
E) 

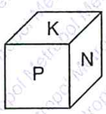
2. 

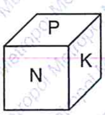
A) 
B) 
C) 
D) 
E) 

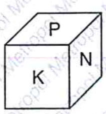
3. 

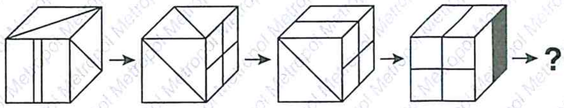
A) 

B) 

C) 

D) 

E) 

4. 

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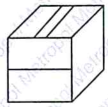
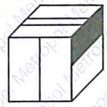
B) 
C) 
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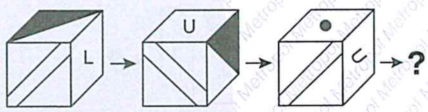
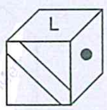
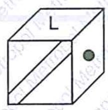
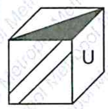
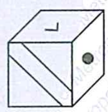
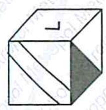
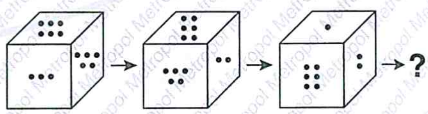
5. 

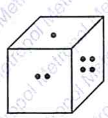
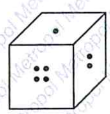
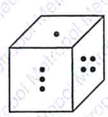
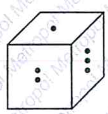
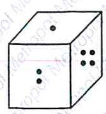
A) 

B) 

C) 

D) 
E) 

6. 

A) 
B) 
C) 
D) 
E) 

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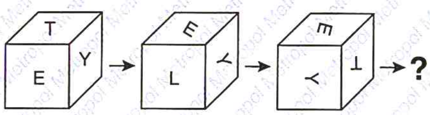

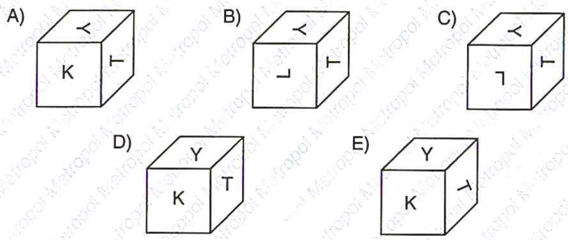

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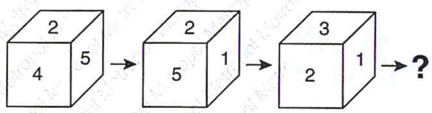

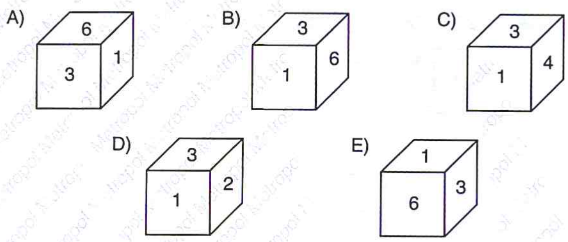

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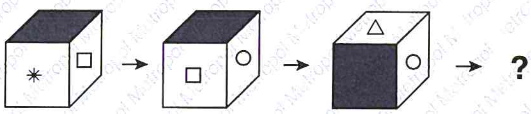

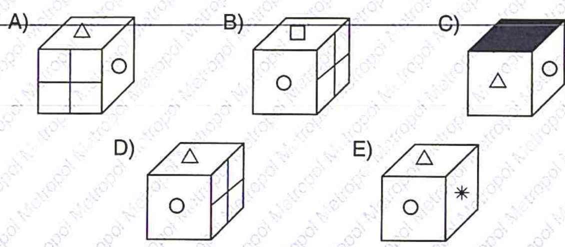

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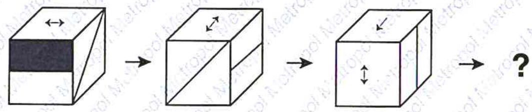

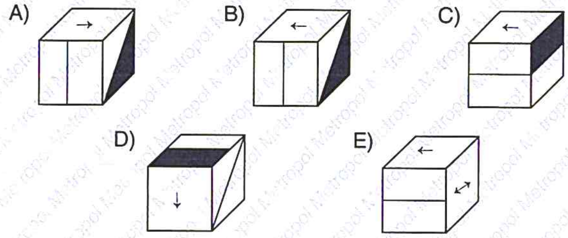

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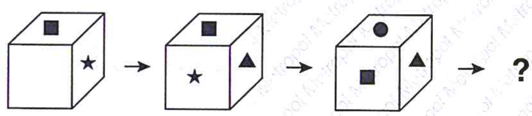

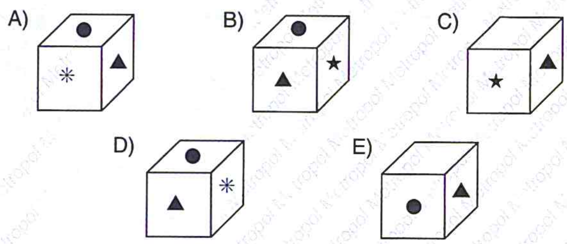

YANITLAR / ANSWERS

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D	B	D	C	D	E	A	B	D	B	D

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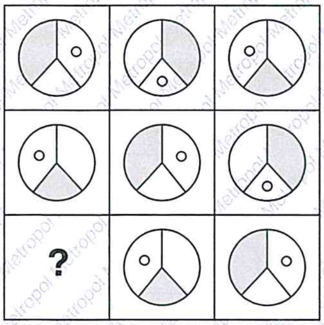

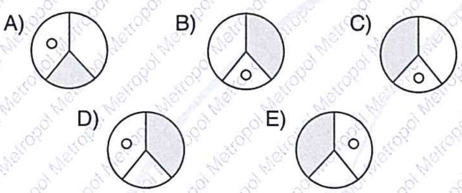

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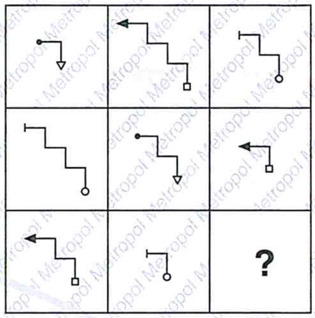

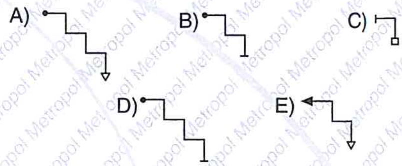

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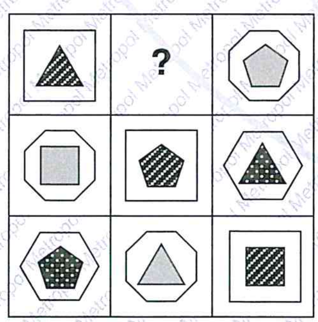

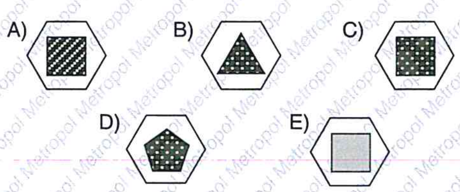

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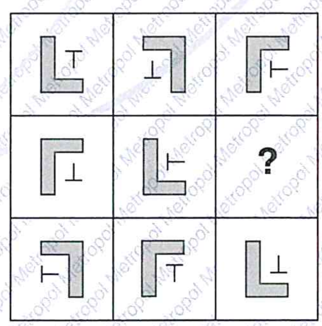

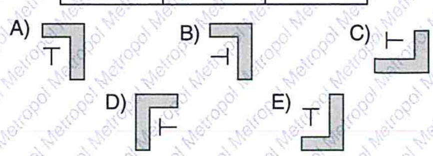

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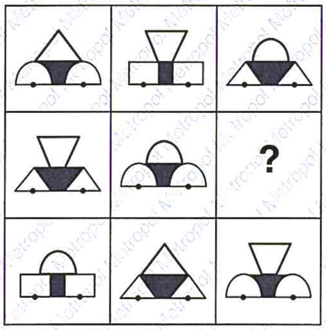

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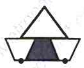
C) 
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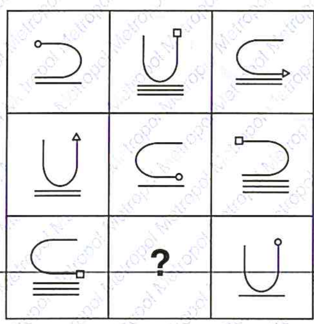

A) 
B) 
C) 
D) 
E) 

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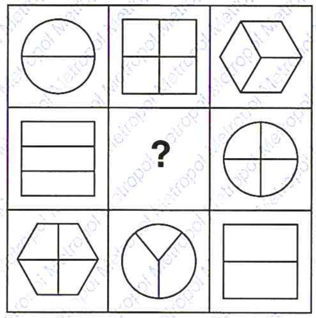
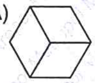
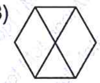
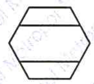
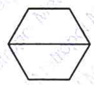
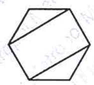


A) 
B) 
C) 
D) 
E) 

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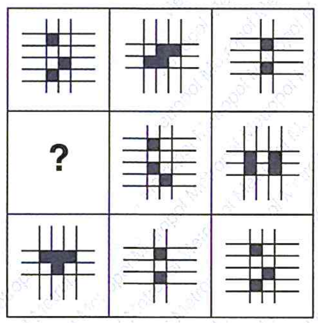
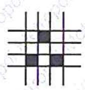
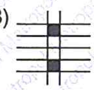
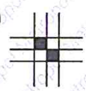
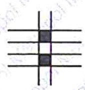
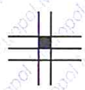


A) 
B) 
C) 
D) 
E) 

YANITLAR / ANSWERS

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B	C	A	A	A	A	D	D

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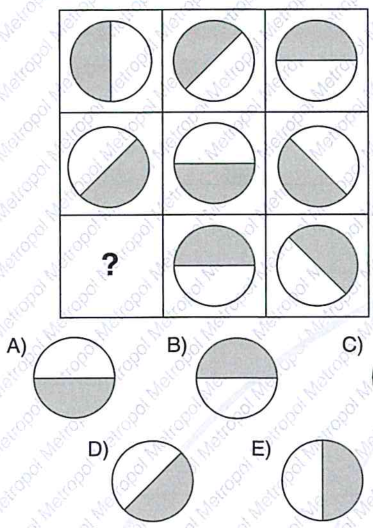

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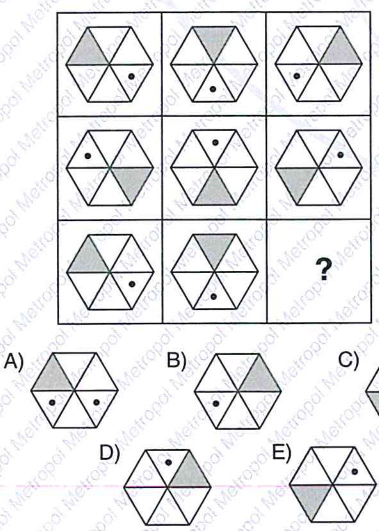

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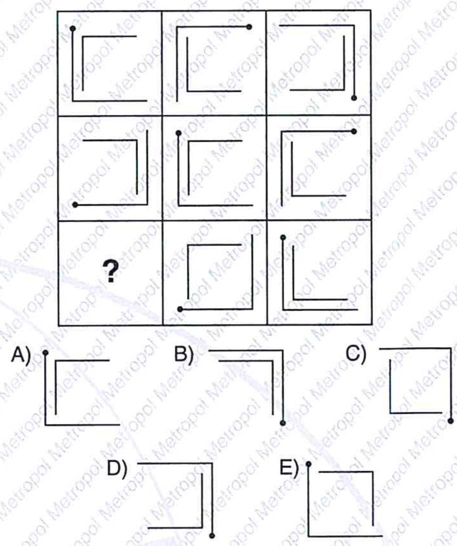

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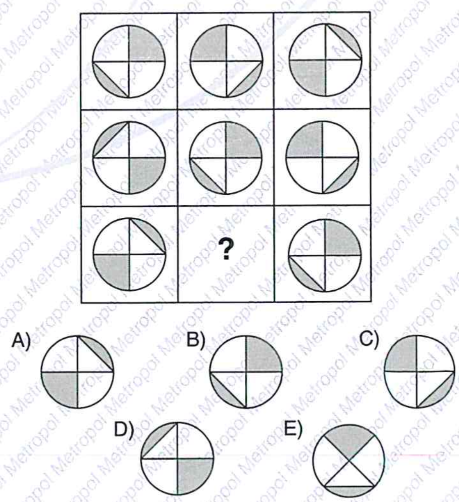

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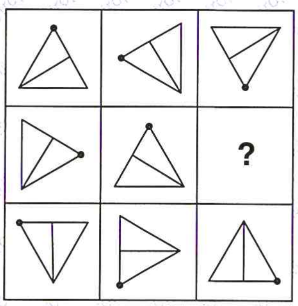

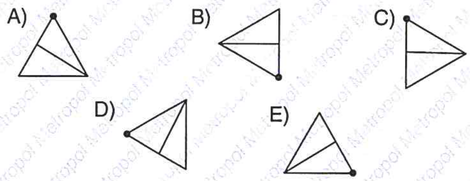

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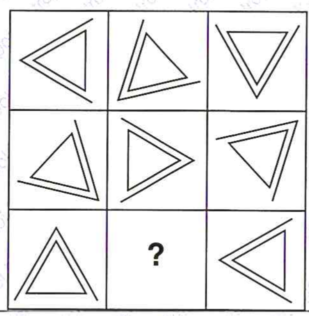

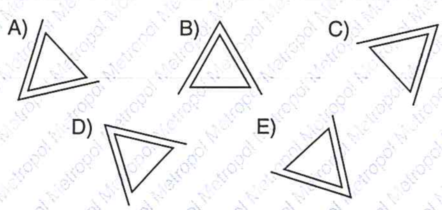

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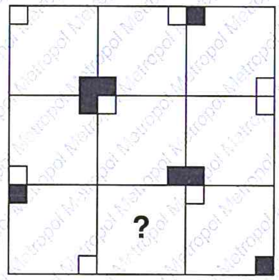

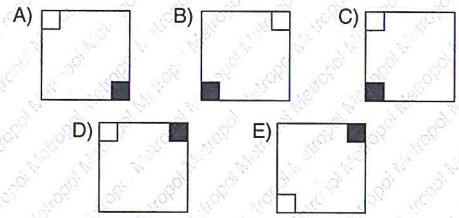

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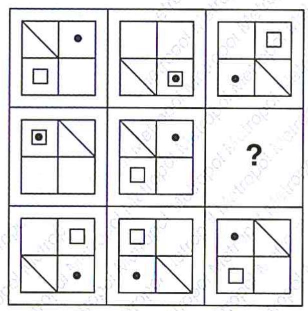
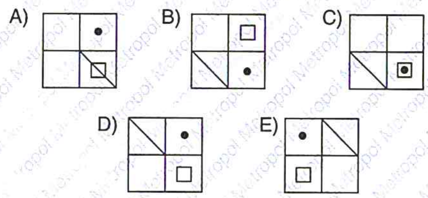
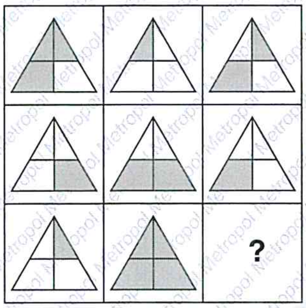


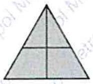
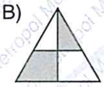
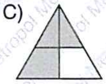


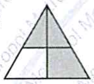
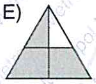
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	B	B	D	D	D	E	C

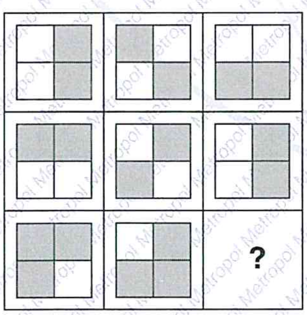
1.

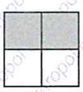
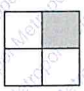


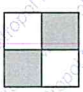
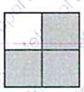
A)  B)  C) 

D)  E) 

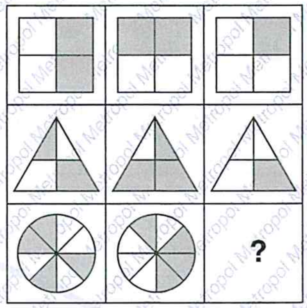
2.

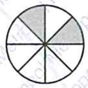
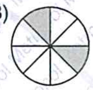


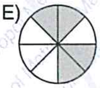
A)  B)  C) 

D)  E) 

3.



A)  B)  C) 

D)  E) 

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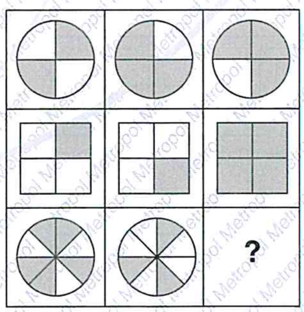
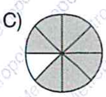
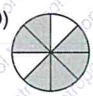
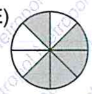


A)  B)  C) 

D)  E) 

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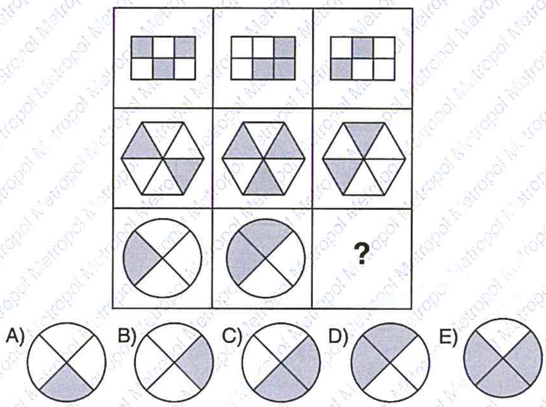

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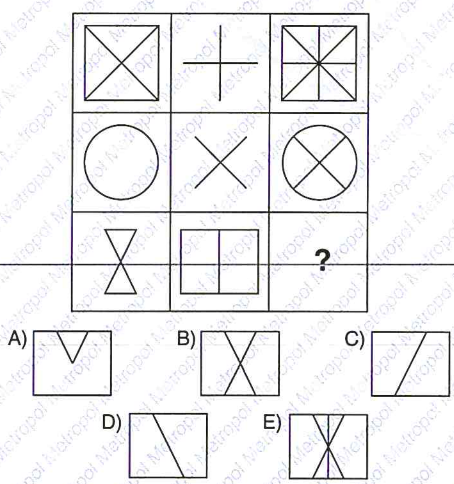

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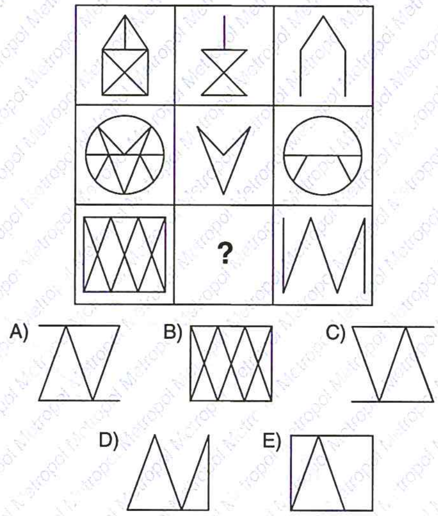

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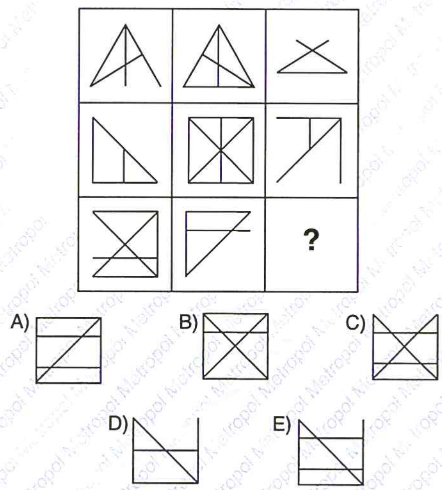
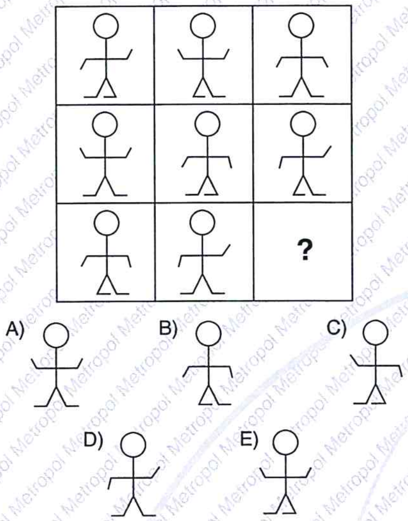


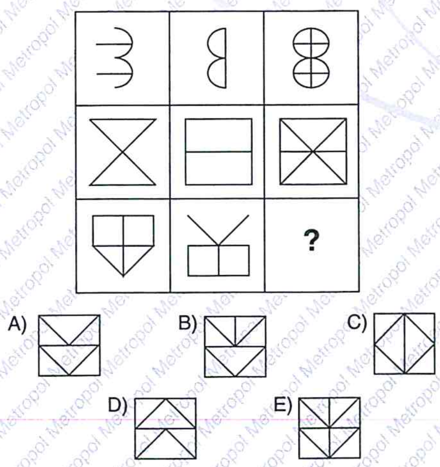
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	D	B	D	C	E	C	E

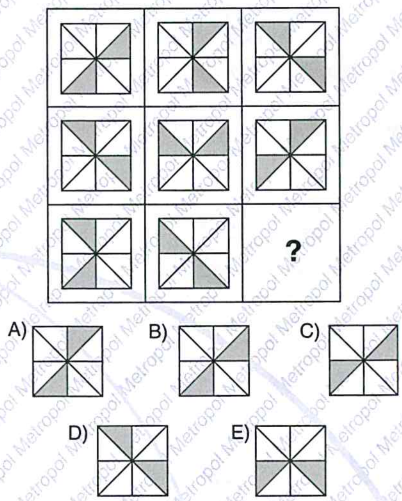
1.



2.



3.



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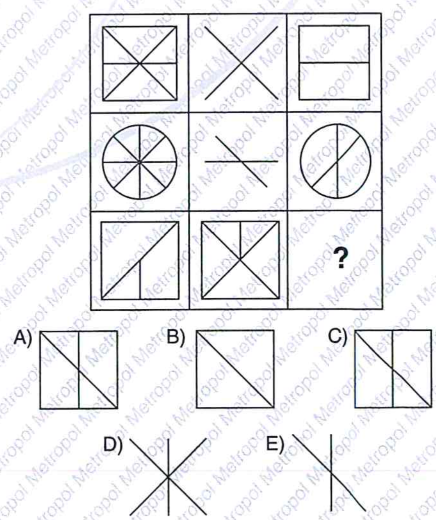

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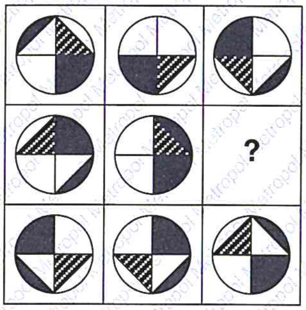

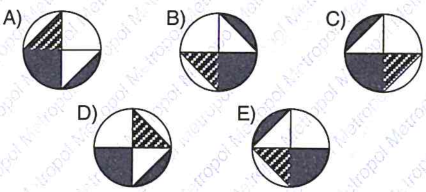

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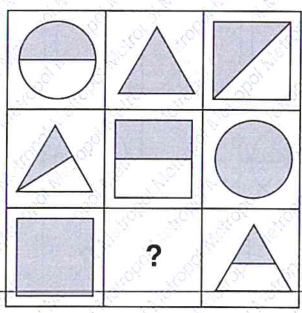

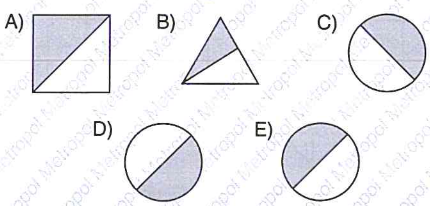

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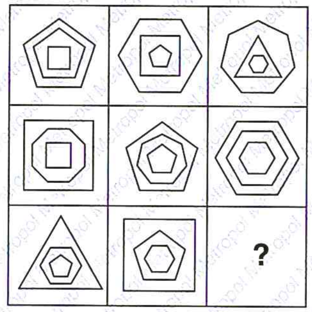
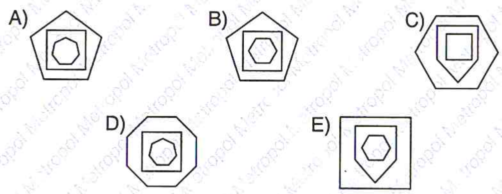
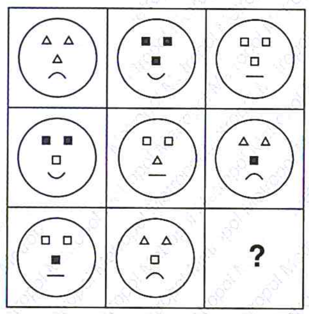
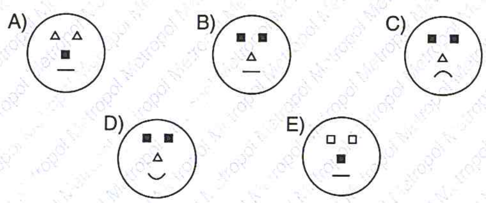




8.

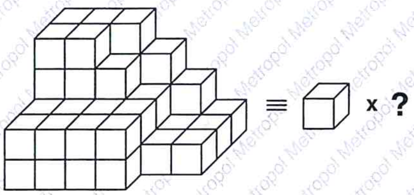




YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	E	E	E	C	E	A	D

1.



A) 51
B) 52
C) 53
D) 54
E) 55

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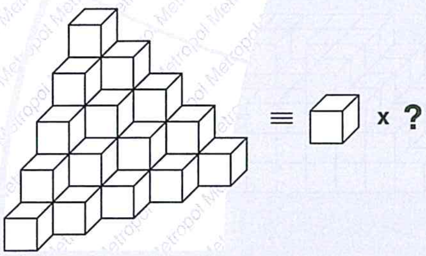
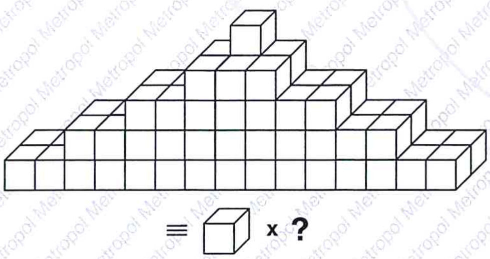


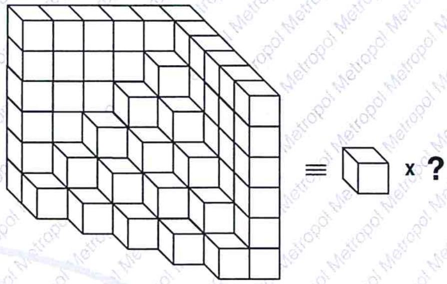
A) 32
B) 33
C) 34
D) 35
E) 36

3.



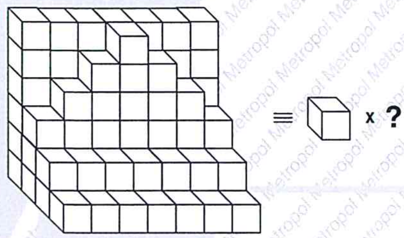
A) 72
B) 73
C) 74
D) 75
E) 76

4.



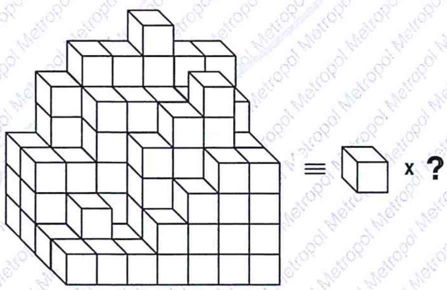
A) 99
B) 100
C) 101
D) 102
E) 103

5.



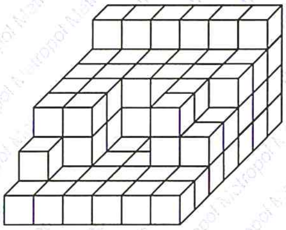
A) 90
B) 91
C) 92
D) 93
E) 94

6.



A) 107
B) 108
C) 109
D) 110
E) 111

7.



A) 96
B) 97
C) 98
D) 99
E) 100

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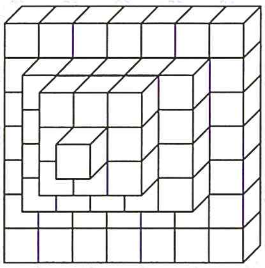
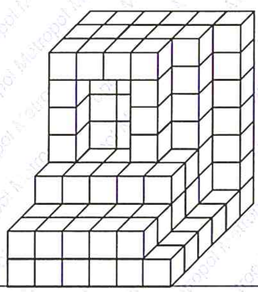


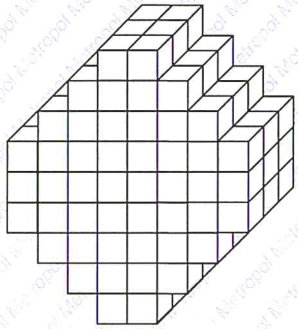
A) 78
B) 79
C) 80
D) 81
E) 82

9.



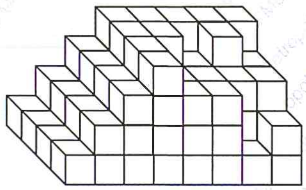
A) 140
B) 142
C) 144
D) 146
E) 148

10.



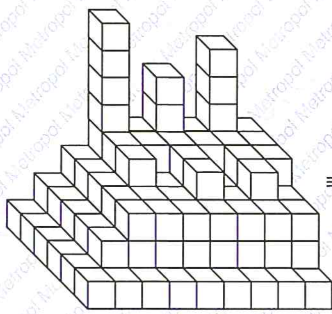
A) 140 B) 142 C) 144
D) 146 E) 148

11.



A) 90
B) 91
C) 92
D) 93
E) 94

12.

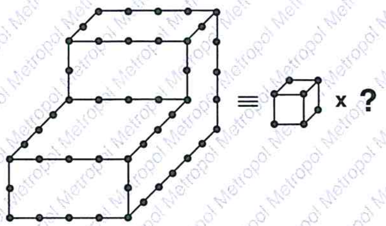


A) 155 B) 156 C) 157
D) 158 E) 159

YANITLAR / ANSWERS

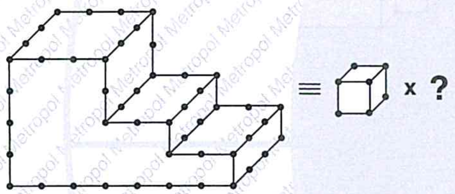
1	2	3	4	5	6	7	8	9	10	11	12
A	D	B	C	D	C	D	B	B	C	B	B

1.



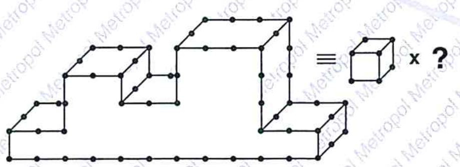
A) 62
B) 64
C) 66
D) 68
E) 70

2.



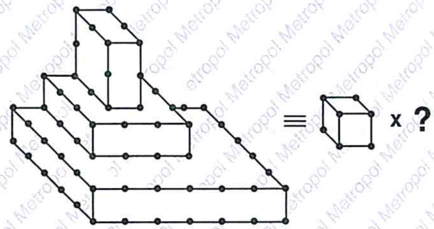
A) 50
B) 52
C) 54
D) 56
E) 58

3.



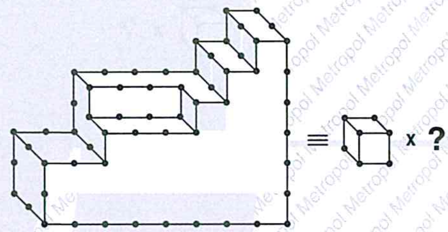
A) 44
B) 46
C) 48
D) 50
E) 52

4.



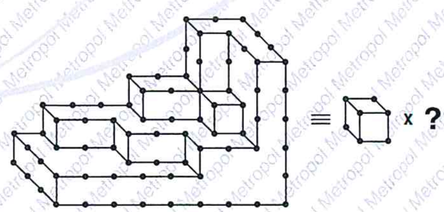
A) 39
B) 40
C) 41
D) 42
E) 43

5.



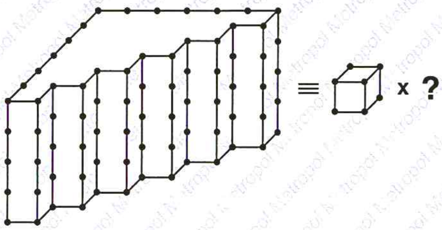
A) 57
B) 58
C) 59
D) 60
E) 61

6.



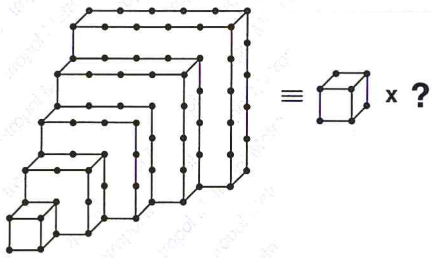
A) 52
B) 54
C) 56
D) 58
E) 60

7.



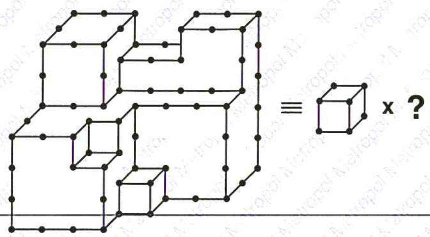
A) 80
B) 82
C) 84
D) 86
E) 88

8.



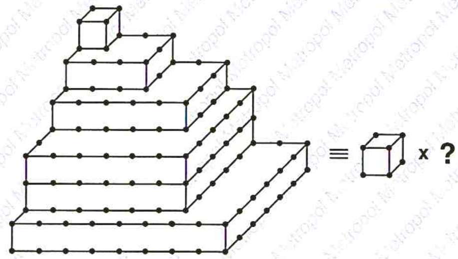
A) 51
B) 52
C) 53
D) 54
E) 55

9.



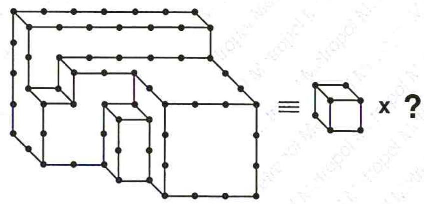
A) 66
B) 67
C) 68
D) 69
E) 70

10.



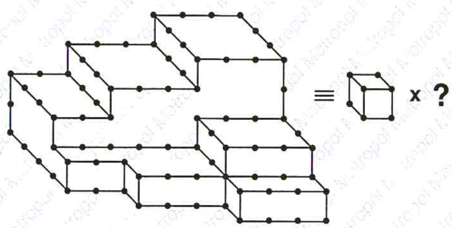
A) 129 B) 130 C) 131
D) 132 E) 133

11.



A) 58
B) 59
C) 60
D) 61
E) 62

12.

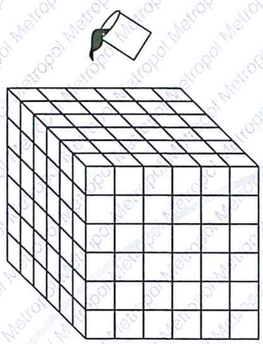


A) 95 B) 96 C) 97
D) 98 E) 99

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	E	E	C	B	C	E	C	B	D	D

1 – 3 soruları aşağıdaki bilgilere göre cevaplayınız.
According to information below, answer the questions 1 – 3.



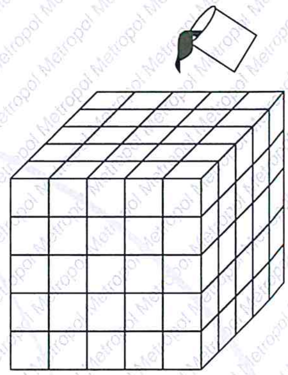
Yukarıdaki şekil birbirine eş 216 küpten oluşmuştur. Oluşan büyük küpün bütün yüzeyleri kırmızıya boyanmıştır.
Figure above is made from 216 small cubes equaling to each other. All surfaces of cube made are painted with red.

1. **Üç yüzü boyalı kaç küçük küp oluşur?**
How many small cubes with painted three surfaces are made?
A) 3 B) 4 C) 6 D) 8 E) 10

2. **Sadece bir yüzü boyalı kaç küçük küp oluşur?**
How many small cubes with painted only one surface are made?
A) 96 B) 64 C) 48 D) 32 E) 16

3. **Boyasız kaç küçük küp vardır?**
How many small paintless cubes are there?
A) 72 B) 64 C) 56 D) 48 E) 40

4 – 5 soruları aşağıdaki bilgilere göre cevaplayınız.
According to information below, answer the questions 4 – 5.

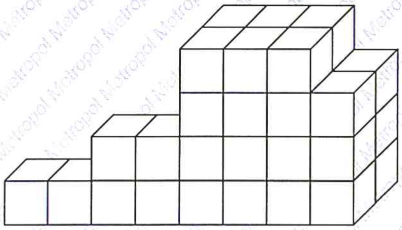


Yukarıdaki birbirine eş 125 küçük küpten oluşmuştur. Bu küpün bütün yüzeyleri maviye boyanmıştır.
Figure above is made from 125 small cubes equaling to each other. All surfaces of this cube are painted with blue.

4. **En az bir yüzeyi mavi olan kaç küçük küp oluşur?**
How many cubes with one blue surface at least are made?
A) 96 B) 98 C) 100 D) 102 E) 104

5. **En fazla bir yüzeyi mavi olan kaç küçük küp oluşur?**
How many cubes with one blue surface at most are made?
A) 63 B) 72 C) 81 D) 90 E) 98

6.

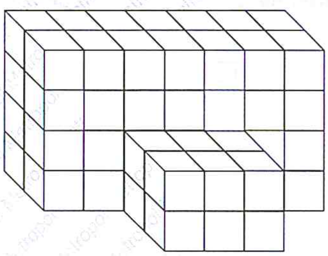


Yukarıda eş küplerden oluşan şeklin tüm yüzeyleri boyanırsa, sadece tek yüzeyi boyalı kaç küp vardır?

If all surfaces of the object above consisting of small cubes gets painted, how many of those small cubes will have only one painted surface?

A) 5 B) 10 C) 12 D) 14 E) 20

7.

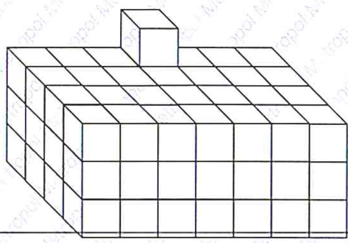


Yukarıda eş küplerden oluşan şeklin tüm yüzeyleri boyanırsa, sadece bir yüzü boyalı kaç küp vardır?

If all surfaces of the object above consisting of small cubes gets painted, how many of those small cubes will have only one painted surface?

A) 17 B) 18 C) 19 D) 20 E) 21

8.



Yukarıda eş küplerden oluşan şeklin tüm yüzeyleri boyanırsa, iki yüzü boyalı kaç küp vardır?

If all surfaces of the object above consisting of small cubes gets painted, how many of those small cubes will have two painted surface?

A) 31 B) 32 C) 33 D) 34 E) 35

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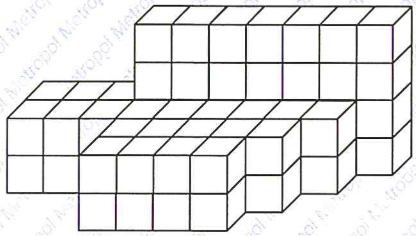
9.

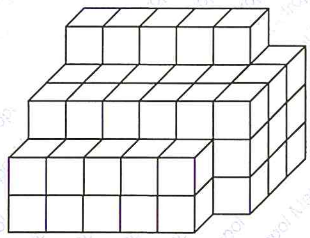


Yukarıda eş küplerden oluşan şeklin tüm yüzeyleri boyanırsa üç yüzeyi boyalı kaç küp vardır?

If all surfaces of the object above consisting of small cubes gets painted, how many of those small cubes will have three painted surface?

A) 18 B) 19 C) 20 D) 21 E) 22

10.



Yukarıda eş küplerden oluşan şeklin tüm yüzeyleri boyanırsa, üç yüzeyi boyalı kaç küp vardır?

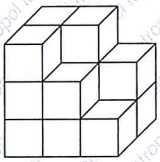
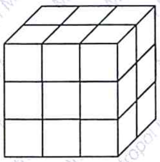
If all surfaces of the object above consisting of small cubes gets painted, how many of those small cubes will have three painted surface?

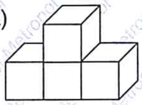
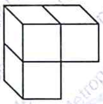
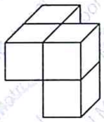
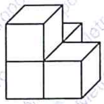
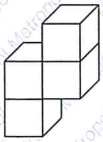
A) 12 B) 13 C) 14 D) 15 E7 16

YANITLAR / ANSWERS

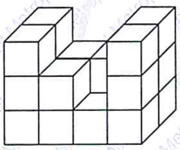
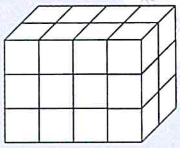
1	2	3	4	5	6	7	8	9	10
D	A	B	B	C	B	C	A	C	B

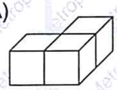
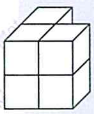
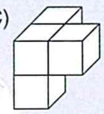
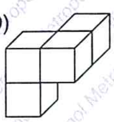
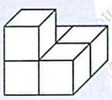
1\. I. + II. ? ≡ III.

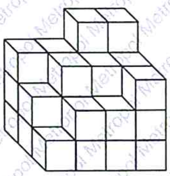
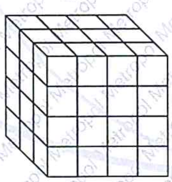
A) 
B) 
C) 
D) 
E) 

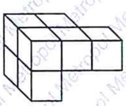
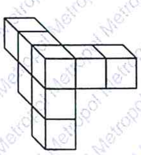
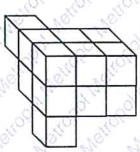
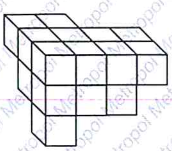
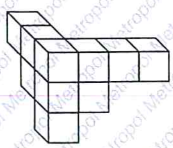
2\. I. + II. ? ≡ III.

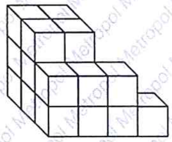
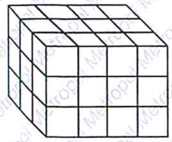
A) 
B) 
C) 
D) 
E) 

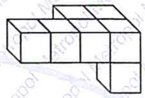
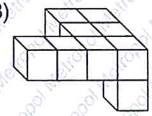
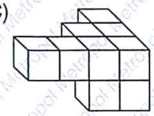
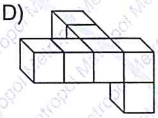
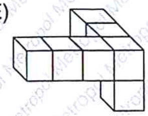
3\. I. + II. ? ≡ III.

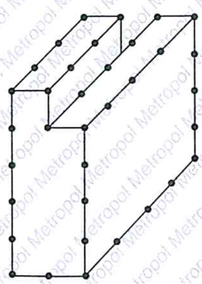
A) 
B) 
C) 
D) 
E) 

4\. I. + II. ? ≡ III.

A) 
B) 
C) 
D) 
E) 

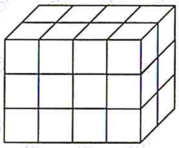
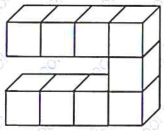
5\.

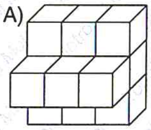


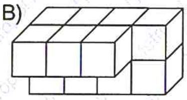
≡ •—• x ?

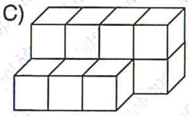
A) 40 B) 41 C) 42 D) 43 E) 44

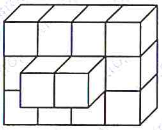
6.

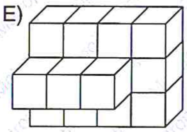
I.  – ? ≡ III. 

A) 

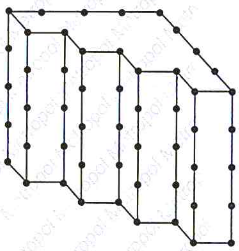
B) 

C) 

D) 

E) 

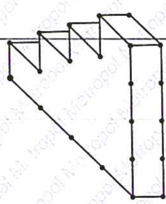
7.



≡ •—• x ?

A) 52 B) 56 C) 64 D) 68 E) 72

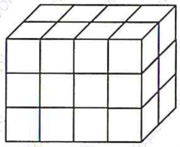
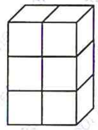
8.

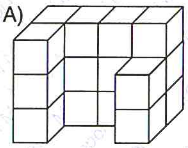


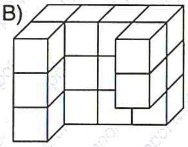
≡ •—• x ?

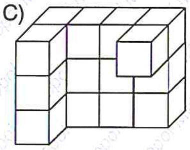
A) 37 B) 39 C) 42 D) 44 E) 45

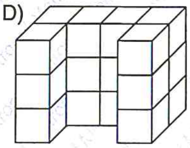
9.

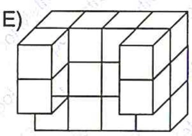
I.  – II.  ≡ III. ?

A) 

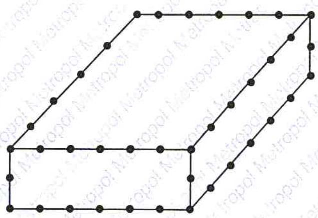
B) 

C) 

D) 

E) 

10.



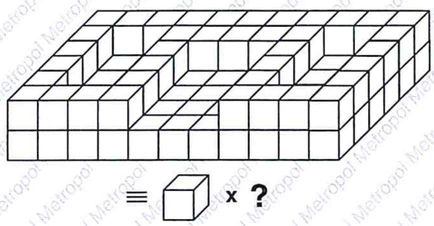
≡ •—• x ?

A) 56 B) 60 C) 64 D) 68 E) 72

YANITLAR / ANSWERS

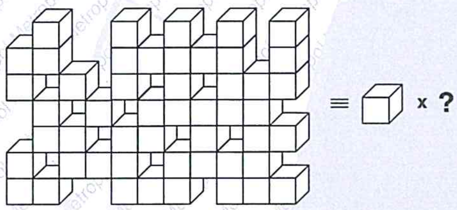
1	2	3	4	5	6	7	8	9	10
D	E	D	B	E	E	E	C	D	A

1.



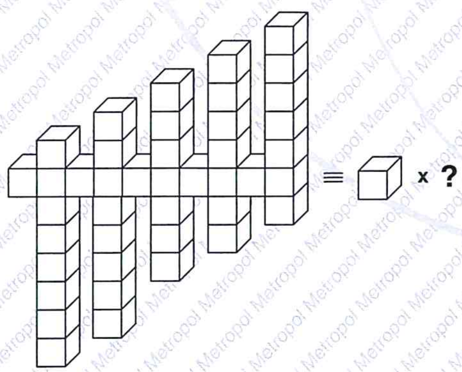
A) 100
B) 102
C) 104
D) 106
E) 108

2.



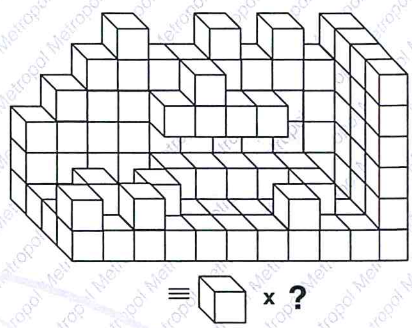
A) 50
B) 51
C) 52
D) 53
E) 54

3.



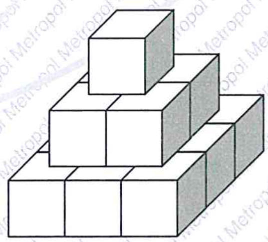
A) 41
B) 42
C) 43
D) 44
E) 45

4.



A) 114
B) 116
C) 118
D) 120
E) 122

5.

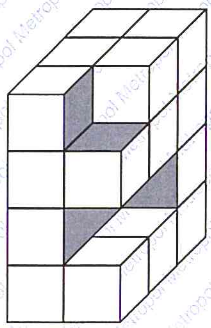


Yukarıda eş küplerden oluşmuş şekle göre; toplam kaç yüzey vardır?

According to the object above consisting of equal shaped cubes, how many surfaces exist in total?

A) 80 B) 82 C) 84 D) 90 E) 92

6.

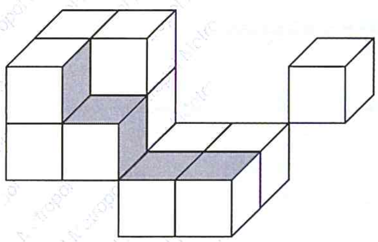


Yukarıda eş küplerden oluşmuş şekle göre görünen yüzey sayısı kaçtır?

According to the shape above consisting of equally shaped cubes, how many surfaces are visible?

A) 25 B) 26 C) 27 D) 28 E) 29

7.

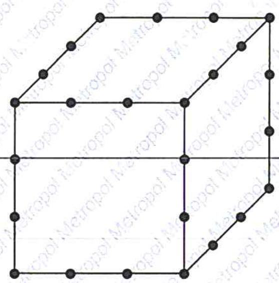


Yukarıdaki eş küplerden oluşmuş şekle göre görünmeyen yüzey sayısı kaçtır?

According to the shape above consisting of equally shaped cubes, how many surfaces are not visiblef?

A) 46 B) 47 C) 48 D) 49 E) 50

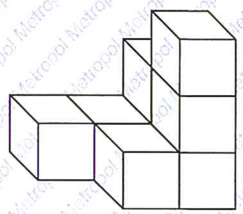
8.



⇒ •——• = ?

A) 12 B) 16 C) 24 D) 36 E) 48

9.

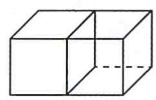


Yukarıda eş küplerden oluşmuş şekle göre görünen kaç kenar vardır?

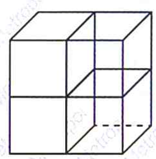
According to the shape above consisting of equally shaped cubes, how many edges are visible?

A) 34 B) 35 C) 36 D) 37 E) 38

10.



= 5



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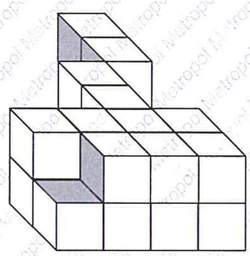


A) 25

B) 26

C) 27

D) 28

E) 29

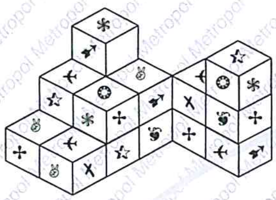
YANITLAR / ANSWERS

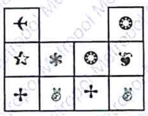
1	2	3	4	5	6	7	8	9	10
C	A	B	D	C	D	D	D	C	D

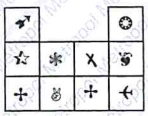
1. ve 2. sorularda verilen cisimlerin soldan görüntüsünü bulunuz.

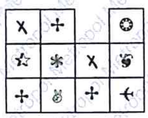
In the questions 1 and 2, find the left view of the given solid objects.

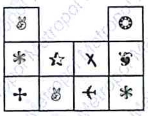
1.

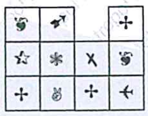


A) 

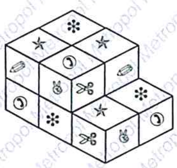
B) 

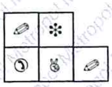
C) 

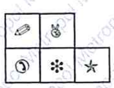
D) 

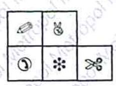
E) 

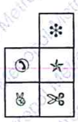
2.



A) 

B) 

C) 

D) 

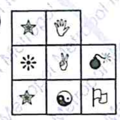
E) 

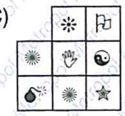
3. ve 4. sorularda verilen cisimlerin sağdan görüntüsünü bulunuz.

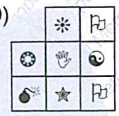
In the questions 3 and 4, find the right view of the given solid objects.

3.

A) 

B) 

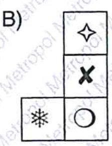
C) 

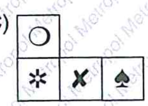
D) 

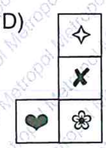
E) 

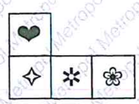
4.

A) 

B) 

C) 

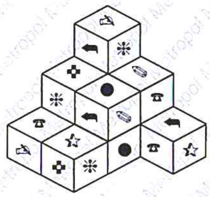
D) 

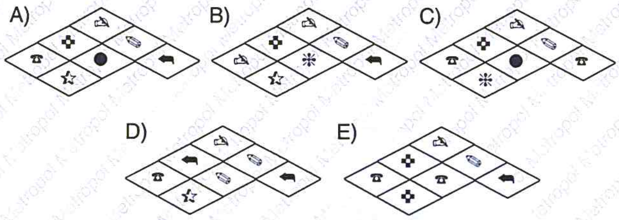
E) 

5, 6, 7 ve 8. sorularda verilen cisimlerin kuş bakışı görüntüsünü bulunuz.

In the questions 5, 6, 7 and 8, find the bird's eye view of the given solid objects.

5.





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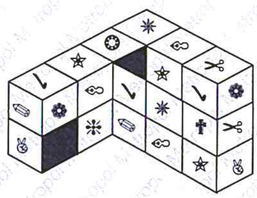
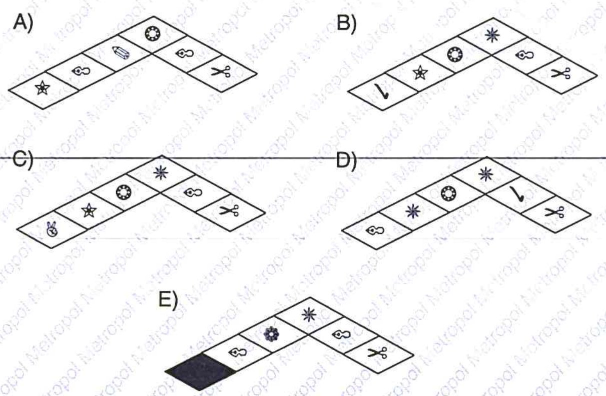
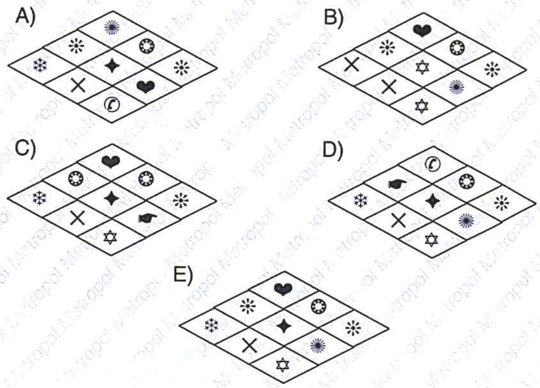
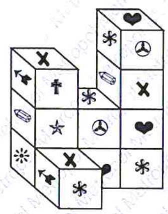


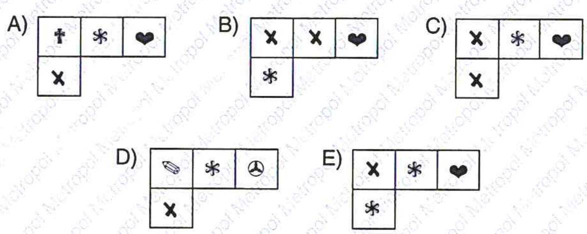


7.



8.





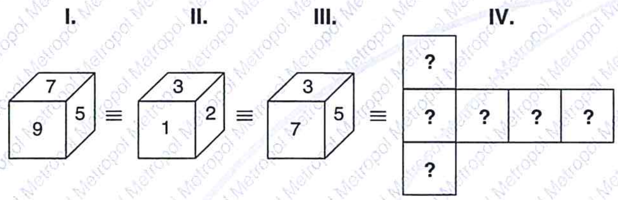
YANITLAR / ANSWERS

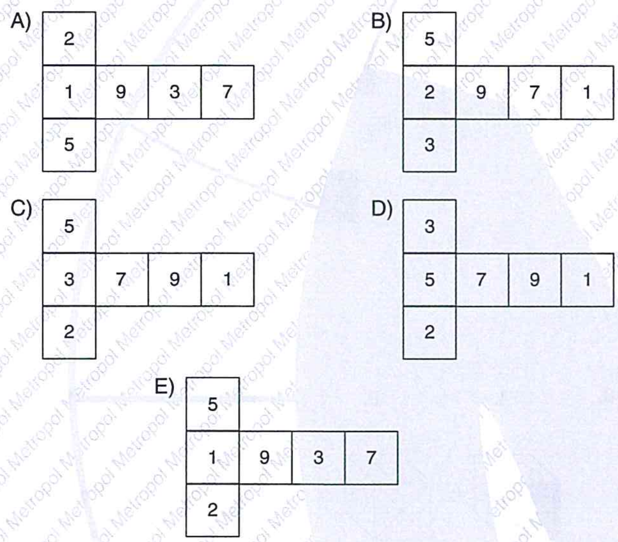
1	2	3	4	5	6	7	8
B	C	A	D	A	B	E	C

Aşağıdaki sorularda, tüm yüzeyleri saydam olan küplerin I, II ve III. adımlarda farklı açılardan kapalı görüntüleri verilmiştir. Buna göre, bu küplerin IV. adımlardaki açık görüntülerini bulunuz.

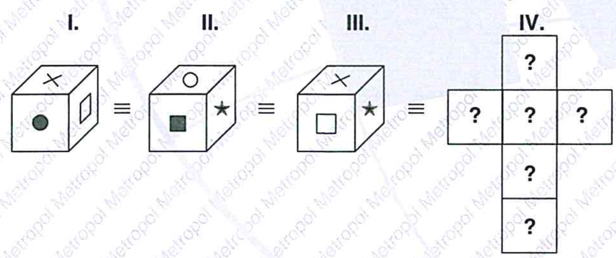
In the following questions, folded forms from different angles of the cubes whose all sides are transparent are given in steps I, II and III. Accordingly, find the open forms of these cubes in steps IV.

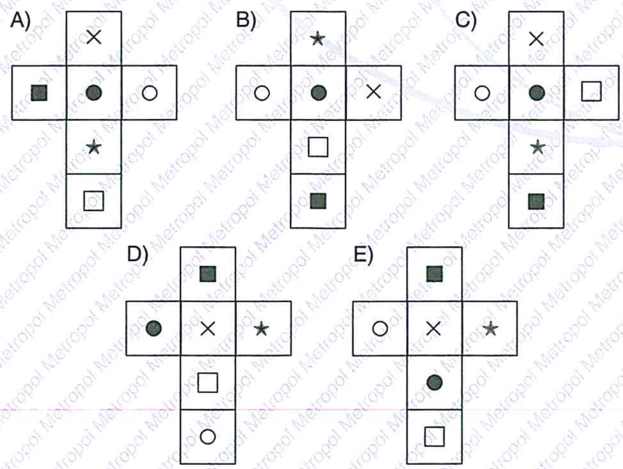
1.



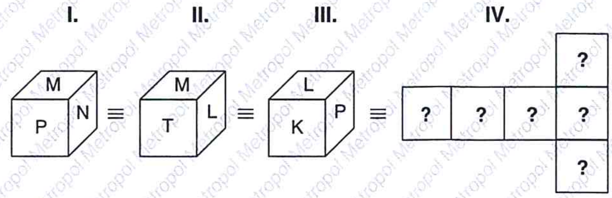


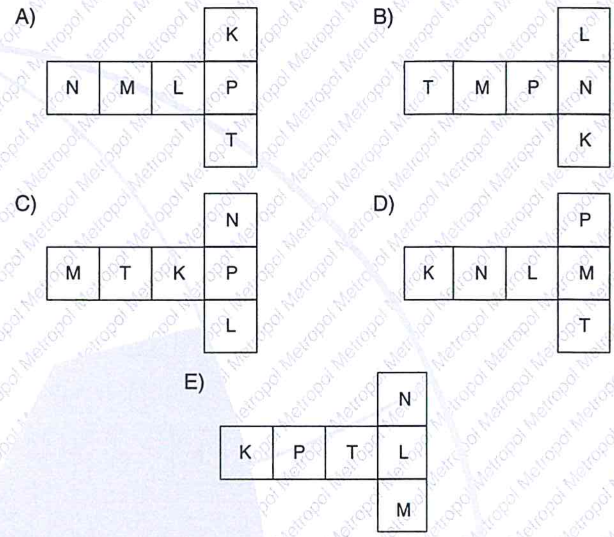
2.



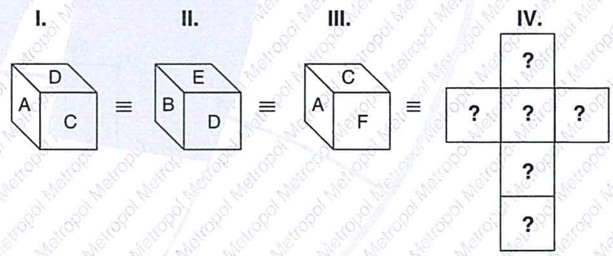


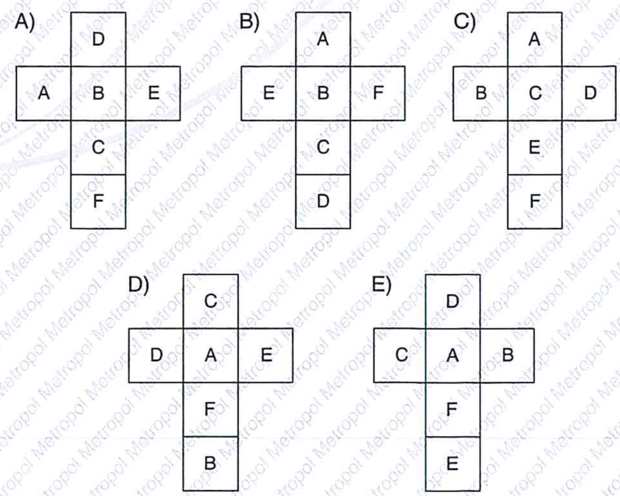
3.



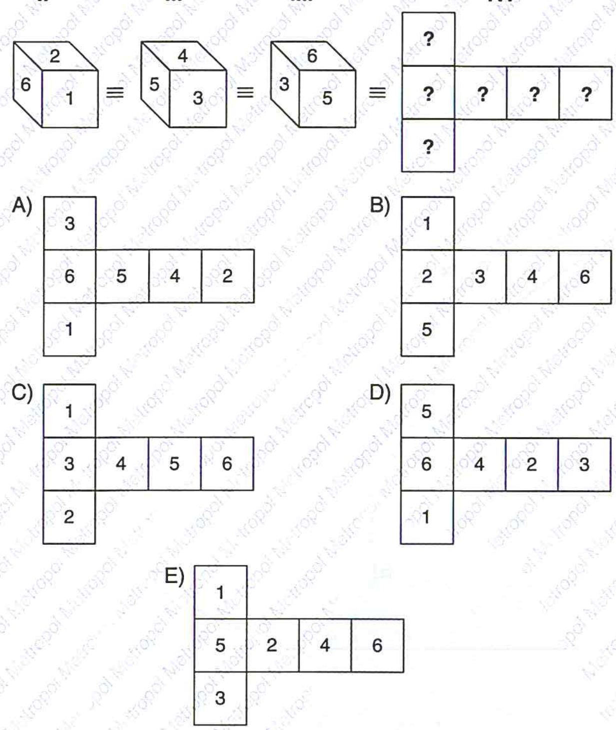


4.

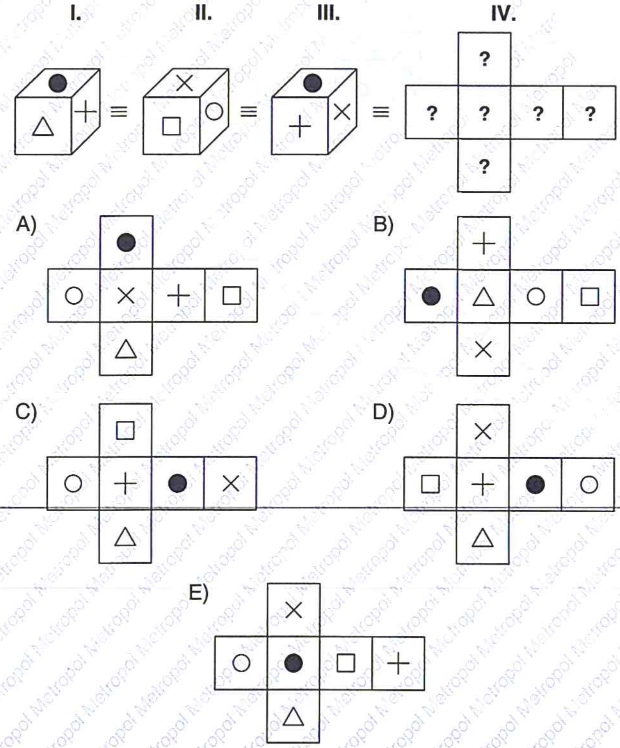




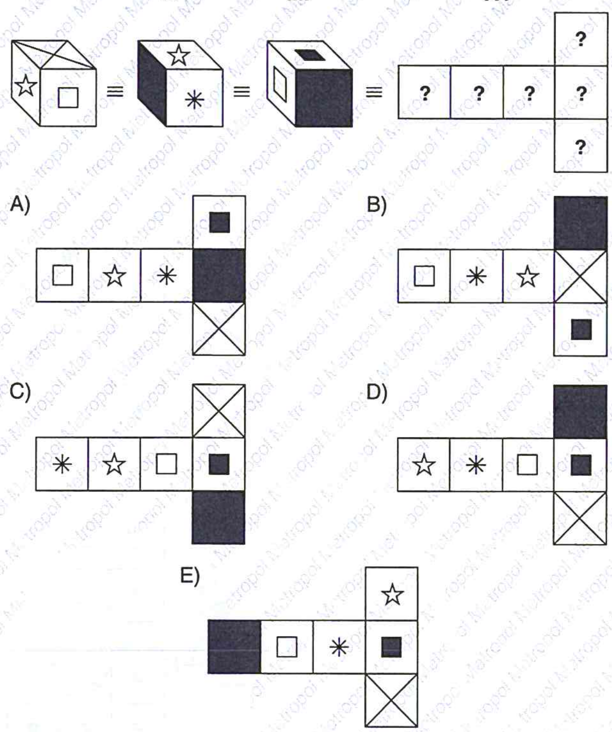
5.



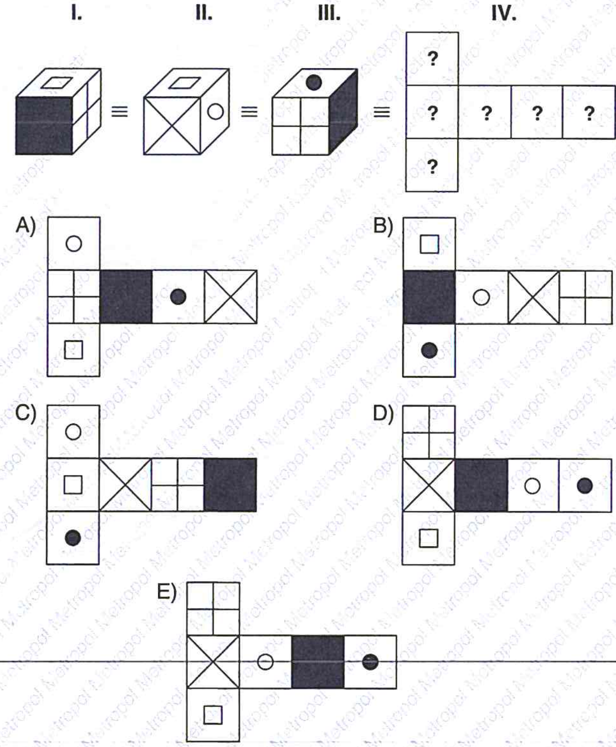
6.



7.



8.



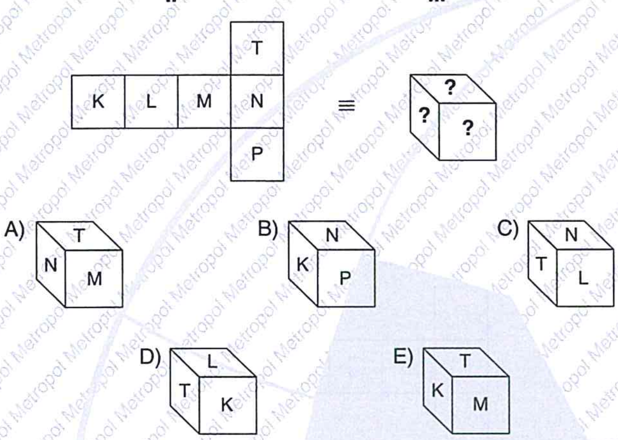
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	D	C	E	A	D	C	B

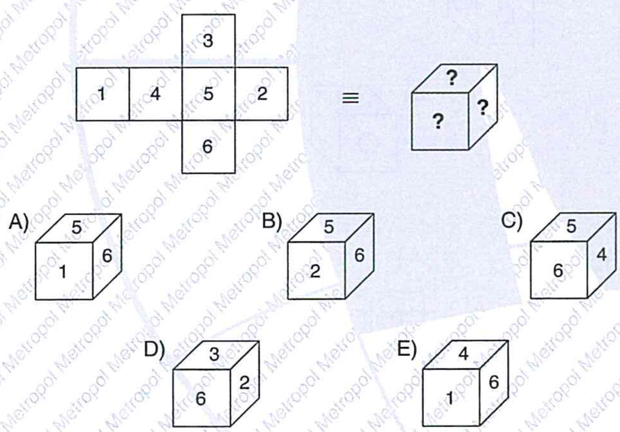
Aşağıdaki sorulardaki I. adımlarda, tüm yüzeyleri saydam <u>olmayan</u> küplerin açık halleri verilmiştir. Buna göre bu küplerin II. adımlardaki kapalı görüntülerini bulunuz.

In the following questions, the open forms of the cubes whose all sides are <u>not</u> transparent are given in steps I. Accordingly, find the folded forms of these cubes in steps II.

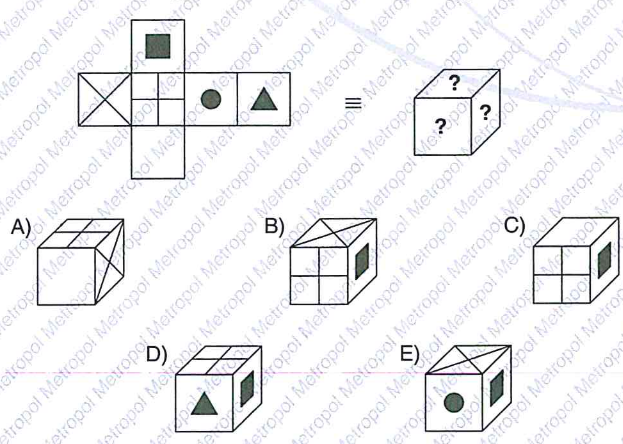
1. I. II.



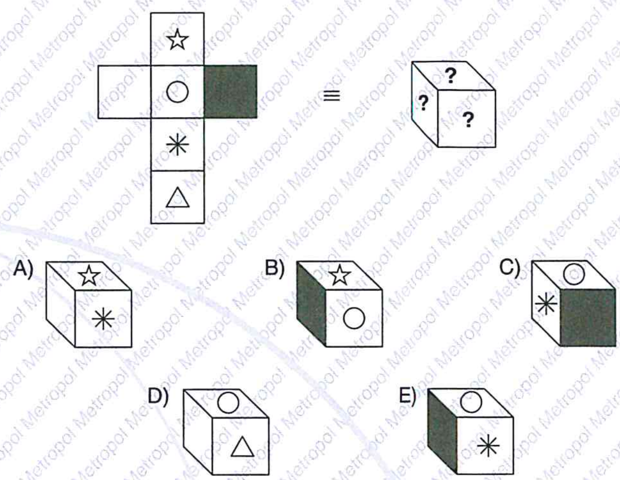
2. I. II.



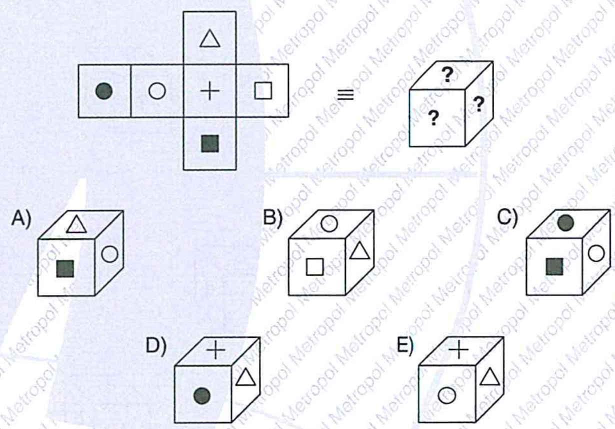
3. I. II.



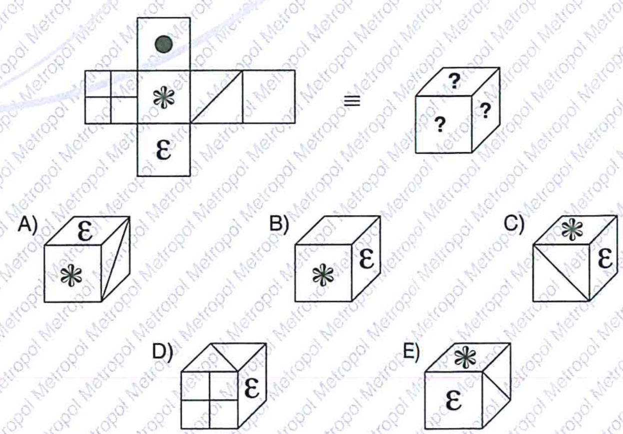
4. I. II.



5. I. II.



6. I. II.



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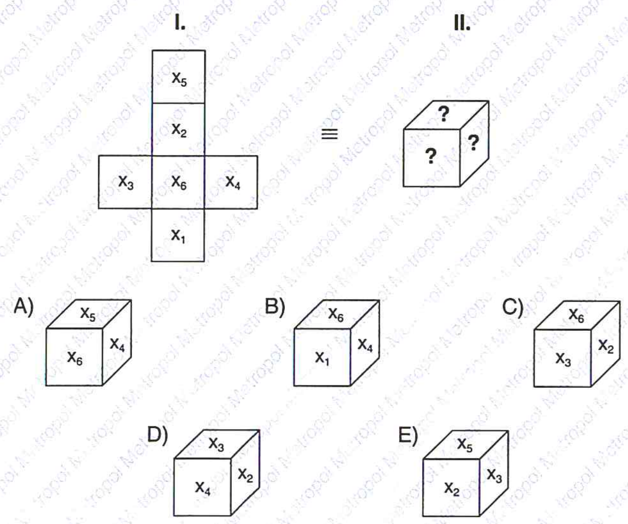

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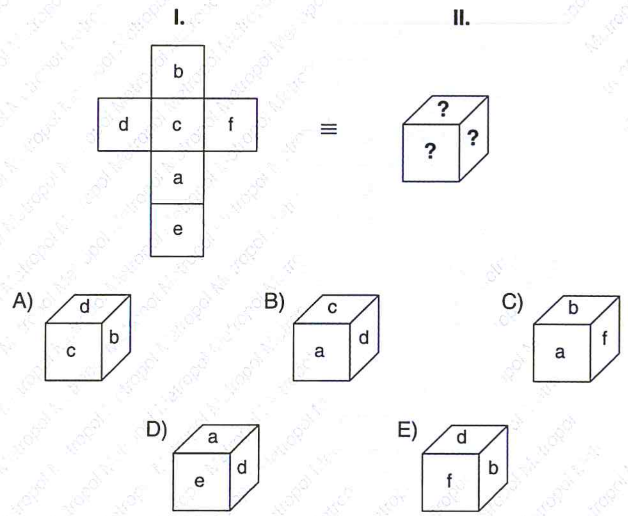
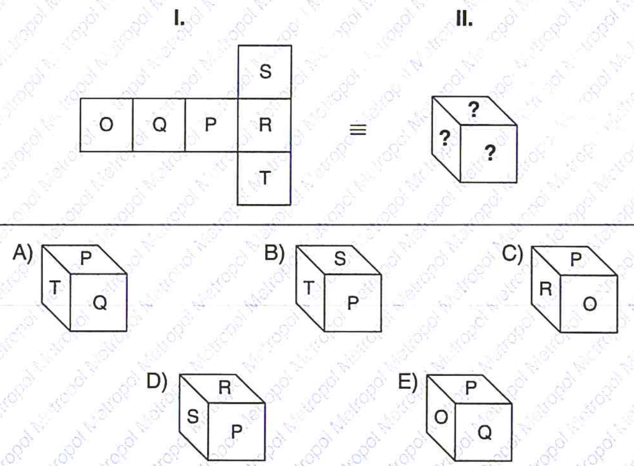
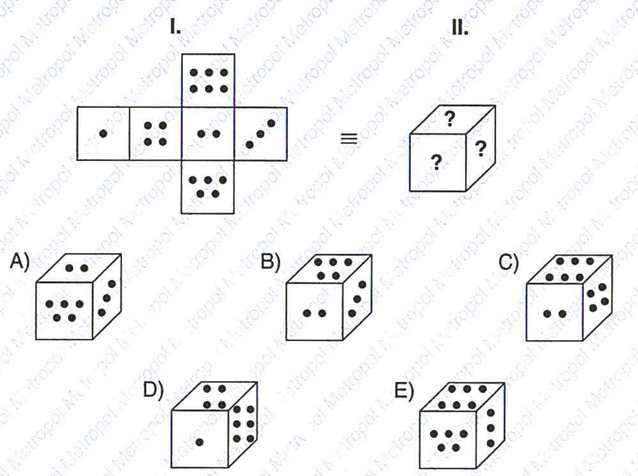


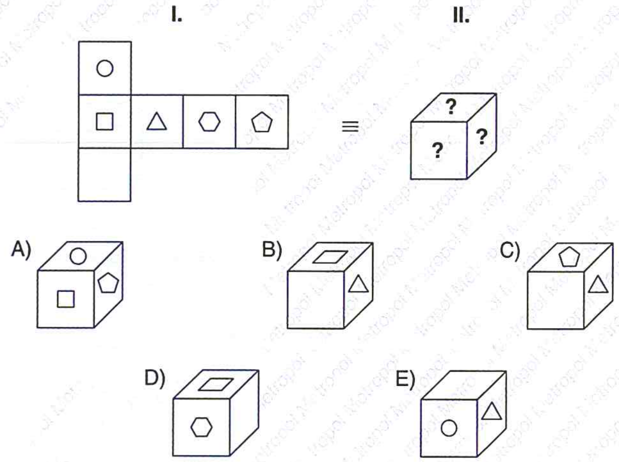
9.



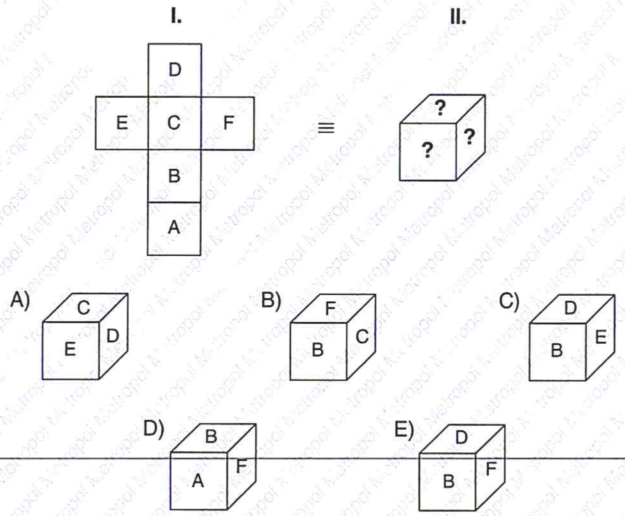
10.



11.



12.



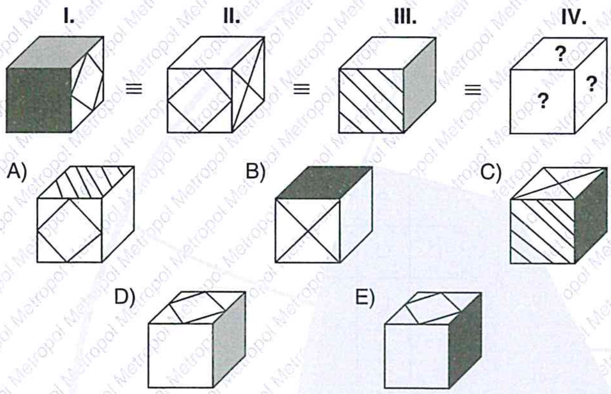
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	B	C	C	E	B	A	D	A	B	D

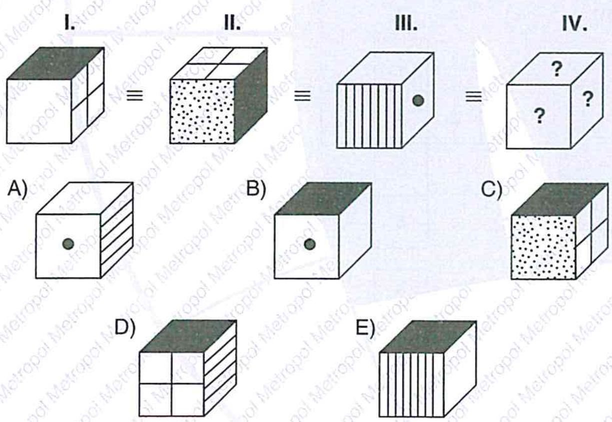
1 - 6. soruları aşağıdaki metne göre cevaplayınız.
Answer questions 1 - 6 according to the following text.

Aşağıdaki sorularda, tüm yüzeyleri saydam <u>olmayan</u> küplerin I, II ve III. adımlarda farklı açılardan kapalı görüntüleri verilmiştir. Buna göre, bu küplerin IV. adımlardaki farklı kapalı görüntülerini bulunuz.
In the following questions folded forms from different angles of the cubes whose all sides are <u>not</u> transparent are given in steps I, II and III. Accordingly, find the folded forms of these cubes in steps IV.

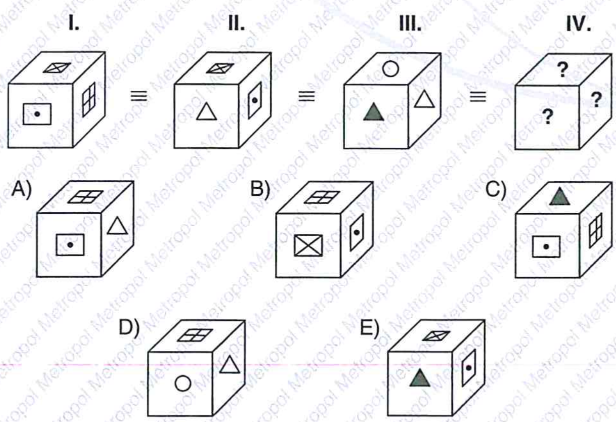
1.



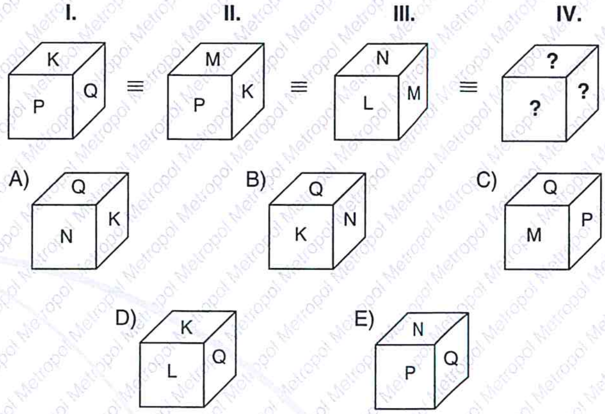
2.



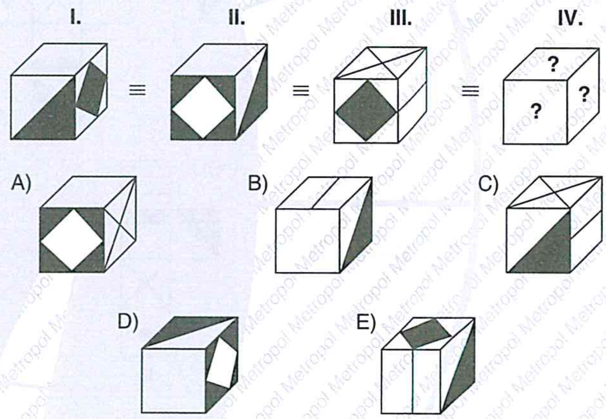
3.



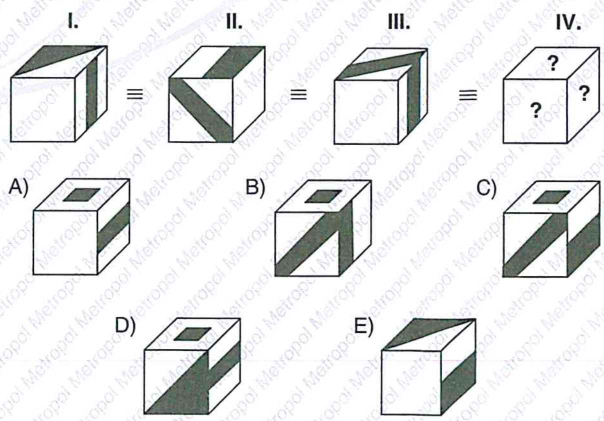
4.



5.



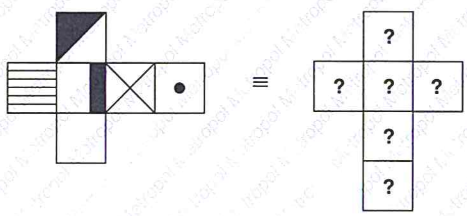
6.

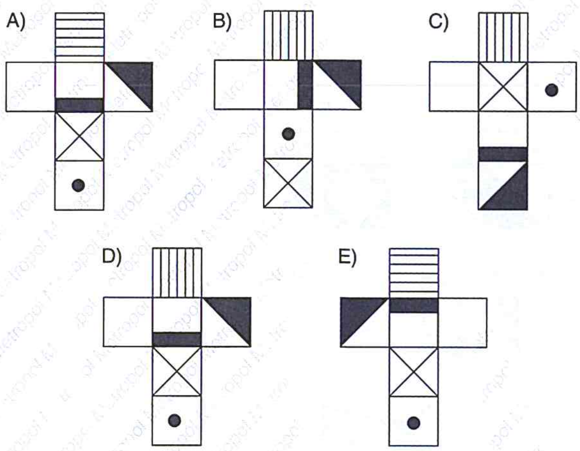


7 - 10. soruları aşağıdaki metne göre cevaplayınız.
Answer questions 7 - 10 according to the following text.

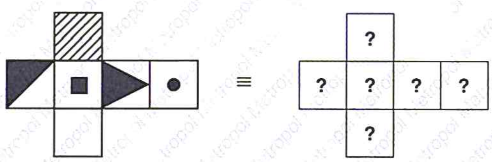
Aşağıdaki sorulardaki I. adımlarda, tüm yüzeyleri saydam <u>olmayan</u> küplerin açık halleri verilmiştir. Buna göre bu küplerin II. adımlardaki farklı bir açık görüntülerini bulunuz.
In the following questions, the open forms of the cubes whose all sides are <u>not</u> transparent are given in steps I. Accordingly, find the a different open forms of these cubes in steps II.

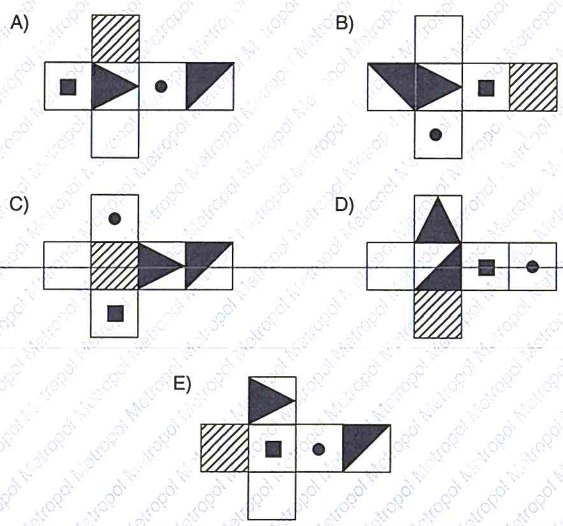
7. I. II.



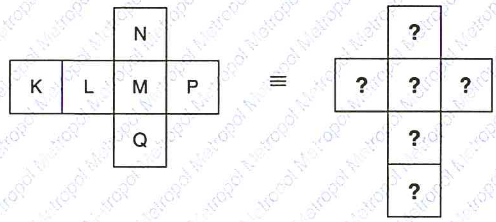


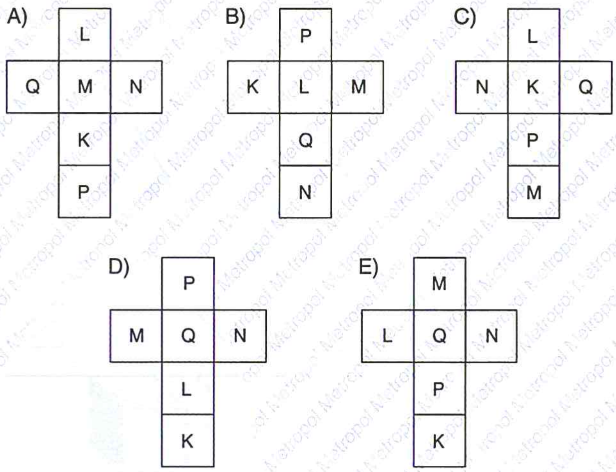
8. I. II.



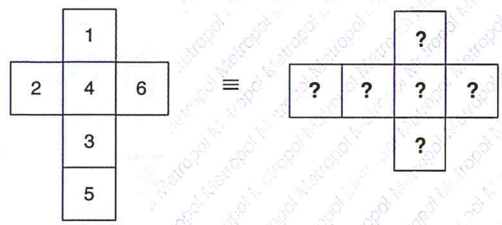


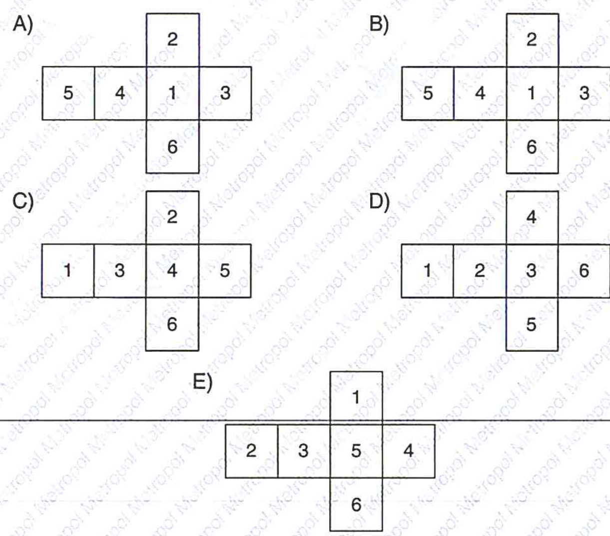
9. I. II.





10. I. II.





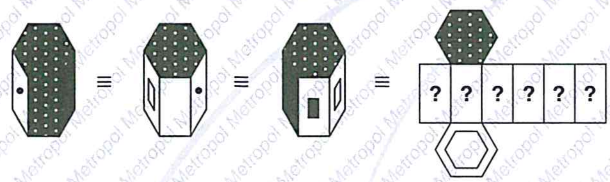
YANITLAR / ANSWERS

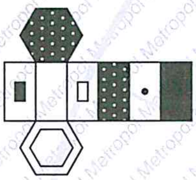
1	2	3	4	5	6	7	8	9	10
D	E	B	A	D	B	D	A	C	D

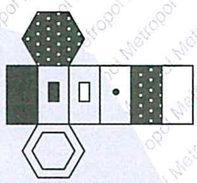
Aşağıdaki sorularda, tüm yüzeyleri saydam olmayan üç boyutlu cisimlerin I, II ve III. adımlarda farklı açılardan kapalı görüntüleri verilmiştir. Buna göre, üç boyutlu cisimlerin IV. adımlardaki açık görüntülerini bulunuz.

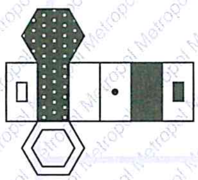
In the following questions folded forms from different angles of three dimensional objects whose all sides are not transparent are given in steps I, II and III. Accordingly, find the open forms of the three dimensional objects in steps IV.

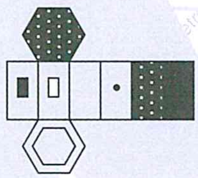
1. I. II. III. IV.

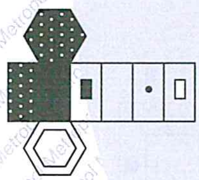


A) 

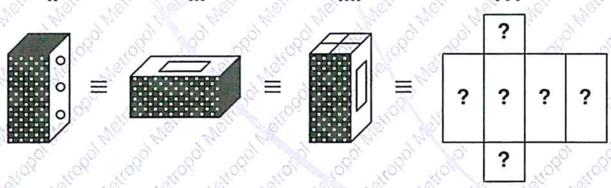
B) 

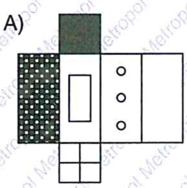
C) 

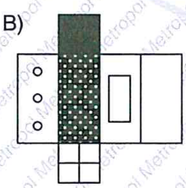
D) 

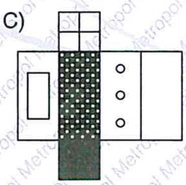
E) 

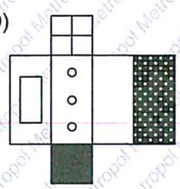
2. I. II. III. IV.

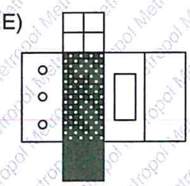


A) 

B) 

C) 

D) 

E) 

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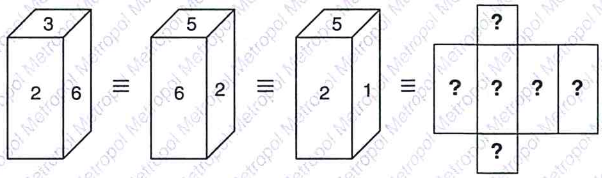
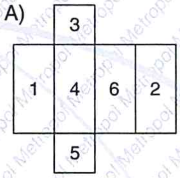
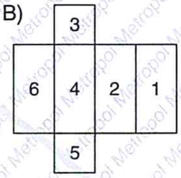
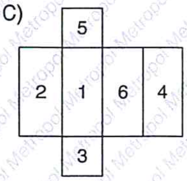
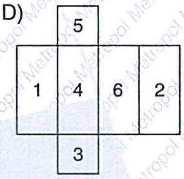
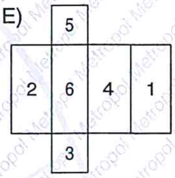


A) 

B) 

C) 

D) 

E) 

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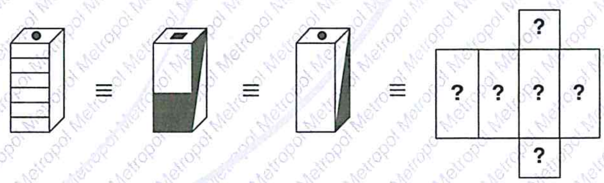
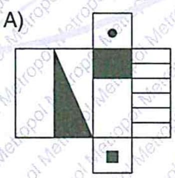
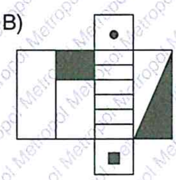
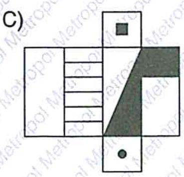
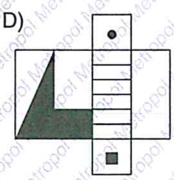
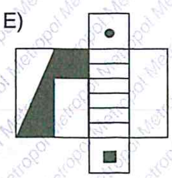


A) 

B) 

C) 

D) 

E) 

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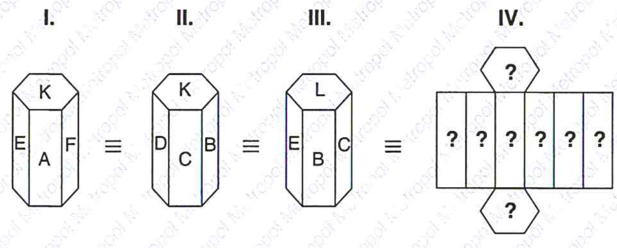

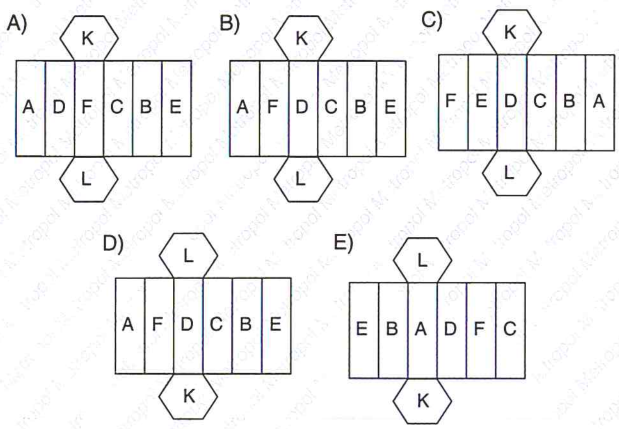

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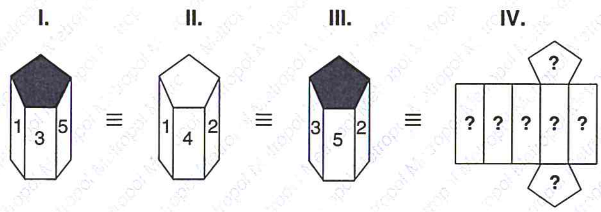

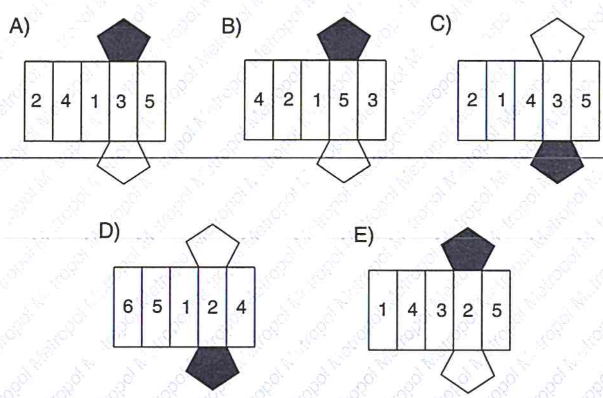

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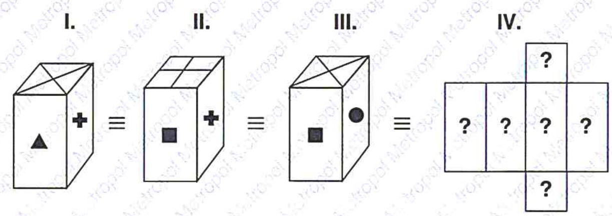

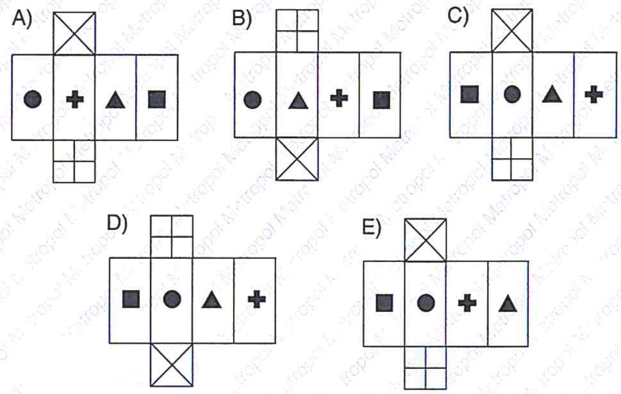

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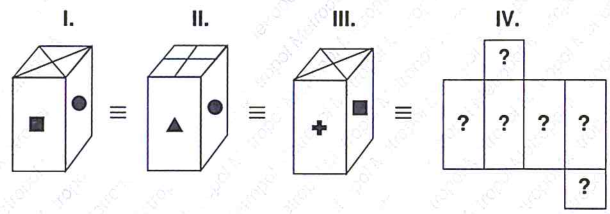
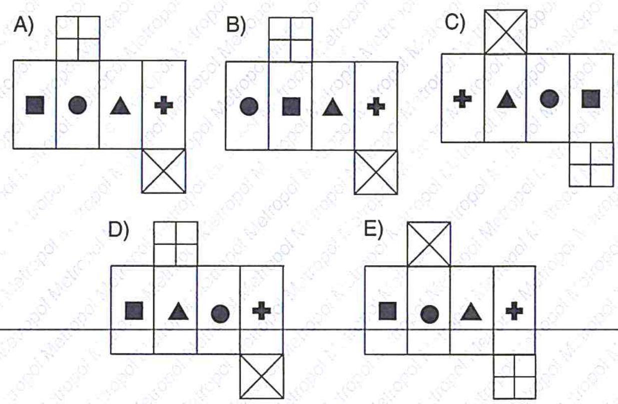
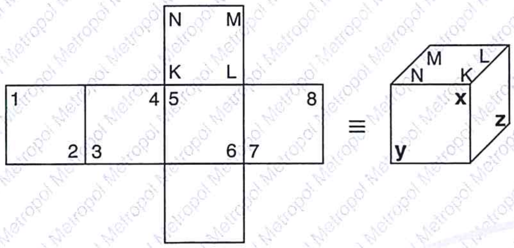




YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	E	D	E	B	A	C	E

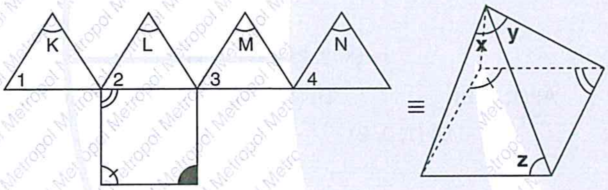
1. I. II.



$\Rightarrow$ **(x, y, z) = (?, ?, ?)**

A) (4, 3, 5) B) (5, 6, 8) C) (5, 6, 7)
D) (4, 3, 6) E) (3, 4, 6)

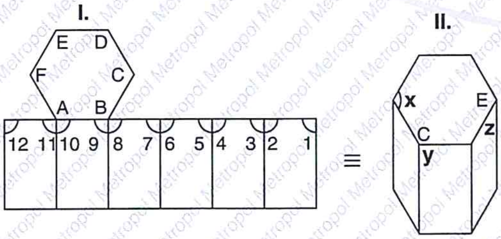
2. I. II.



$\Rightarrow$ **(x, y, z) = (?, ?, ?)**

A) (L, K, 2) B) (K, L, 1) C) (K, L, 2)
D) (M, L, 2) E) (M, L, 3)

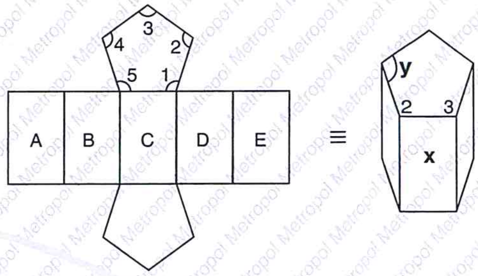
3. I. II.



$\Rightarrow$ **(x, y, z) = (?, ?, ?)**

A) (B, 7, 4) B) (F, 7, 5) C) (B, 6, 3)
D) (B, 7, 5) E) (B, 3, 6)

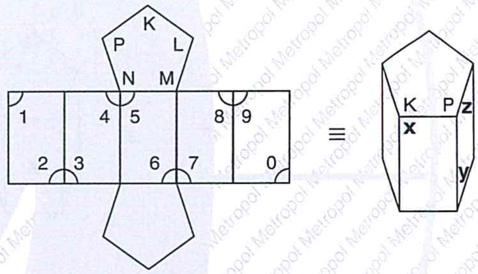
4. I. II.



$\Rightarrow$ **(x, y) = (?, ?)**

A) (E, 1) B) (E, 2) C) (D, 1)
D) (C, 3) E) (E, 4)

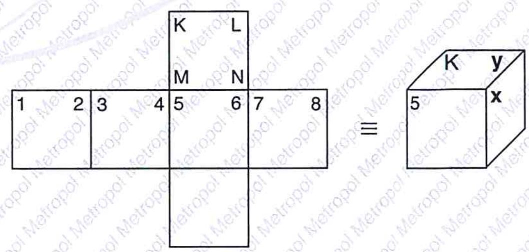
5. I. II.



$\Rightarrow$ **(x, y, z) = (?, ?, ?)**

A) (2, 3, 4) B) (1, 3, 4) C) (1, 2, 6)
D) (1, 2, 3) E) (1, 4, 3)

6. I. II.



$\Rightarrow$ **(x, y) = ?**

A) (4, K) B) (7, N) C) (4, L)
D) (7, L) E) (6, N)

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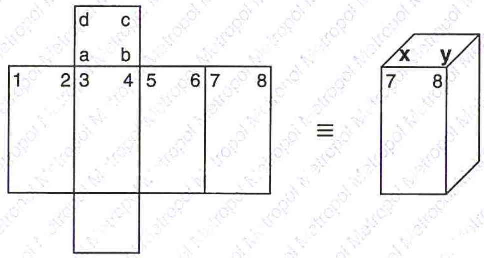
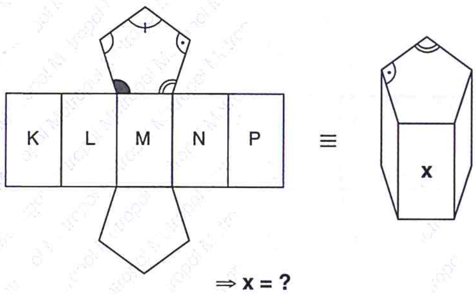
7. I. II.



⇒ (x, y) = ?

A) (d, c) B) (c, d) C) (a, d) D) (b, c) E) (c, a)

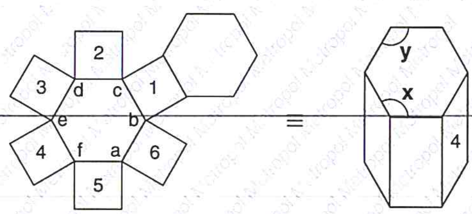
8. I. II.



⇒ x = ?

A) K B) L C) M D) N E) P

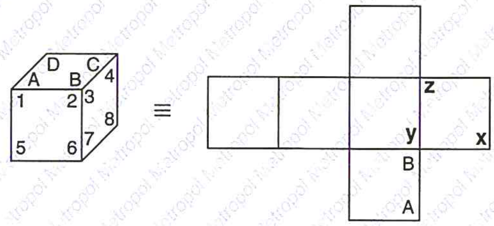
9. I. II.



⇒ (x, y) = ?

A) (a, b) B) (d, b) C) (b, d) D) (e, b) E) (c, b)

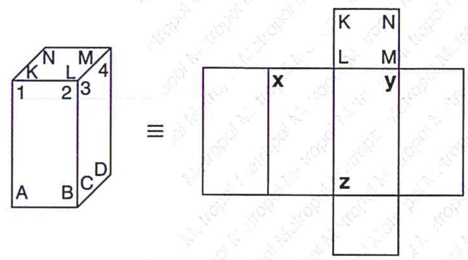
10. I. II.



⇒ (x, y, z) = (?, ?, ?)

A) (5, 7, 4) B) (1, 2, 3) C) (1, 3, 6) D) (2, 3, 8) E) (1, 6, 7)

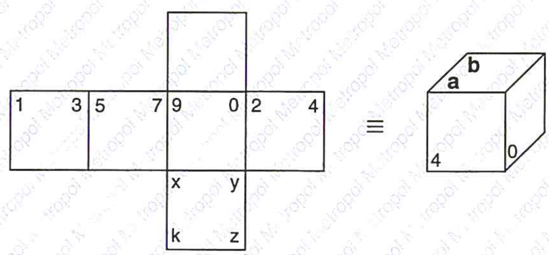
11. I. II.



⇒ (x, y, z) = (?, ?, ?)

A) (1, 4, B) B) (1, 4, C) C) (1, 3, C) D) (1, 2, B) E) (2, 3, D)

12. I. II.



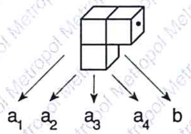
⇒ (a, b) = ?

A) (k, y) B) (z, y) C) (z, k) D) (x, k) E) (x, y)

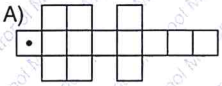
YANITLAR / ANSWERS

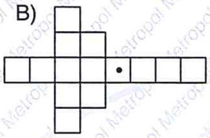
1	2	3	4	5	6	7	8	9	10	11	12
D	E	C	A	B	D	B	A	D	C	B	C

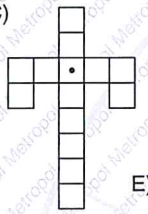
1.

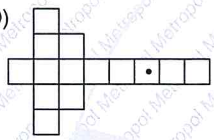


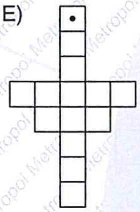
$a_1 \equiv a_2 \equiv a_3 \equiv a_4 \not\equiv b \quad \Rightarrow$ **b = ?**

A) 

B) 

C) 

D) 

E) 

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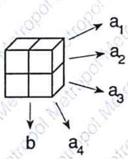
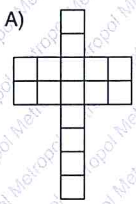
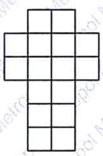
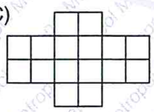


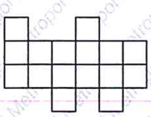
$a_1 \equiv a_2 \equiv a_3 \equiv a_4 \not\equiv b$

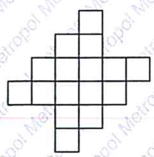
$\Rightarrow$ **b = ?**

A) 

B) 

C) 

D) 

E) 

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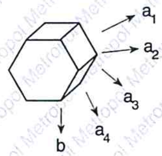
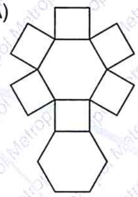
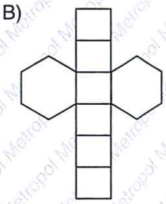
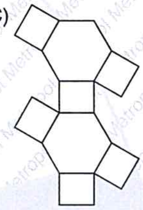


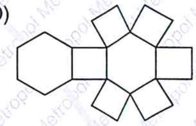
$a_1 \equiv a_2 \equiv a_3 \equiv a_4 \not\equiv b$

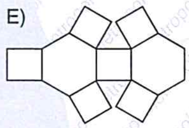
$\Rightarrow$ **b = ?**

A) 

B) 

C) 

D) 

E) 

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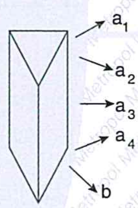
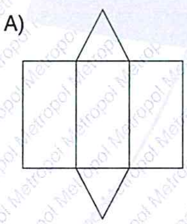
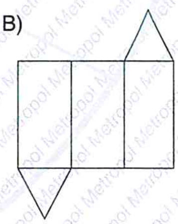
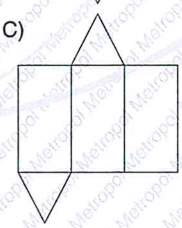
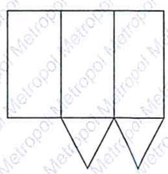


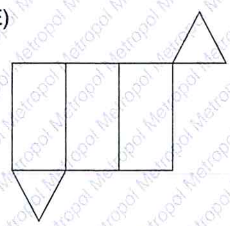
$a_1 \equiv a_2 \equiv a_3 \equiv a_4 \not\equiv b$

A) 

B) 

C) 

D) 

E) 

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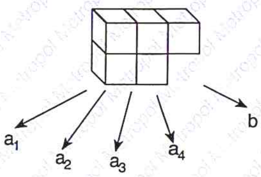
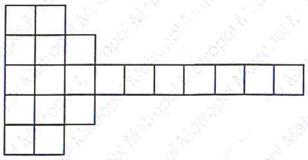
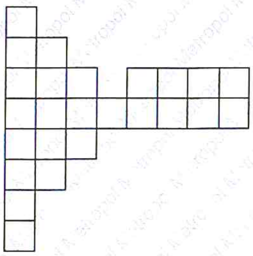


$a_1 \equiv a_2 \equiv a_3 \equiv a_4 \not\equiv b \Rightarrow$ **b = ?**

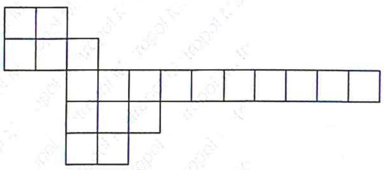
A)



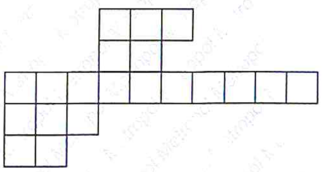
B)



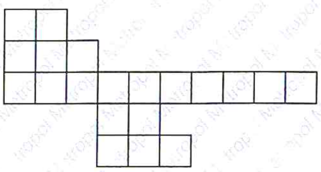
C)



D)



E)



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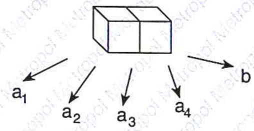
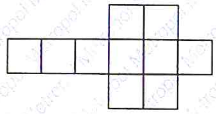
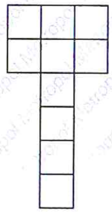


$a_1 \equiv a_2 \equiv a_3 \equiv a_4 \not\equiv b \Rightarrow$ **b = ?**

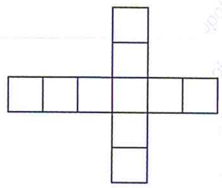
A)



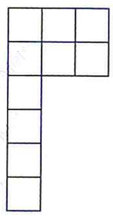
B)



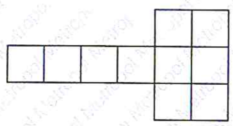
C)



D)



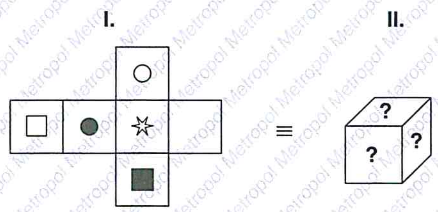
E)



YANITLAR / ANSWERS

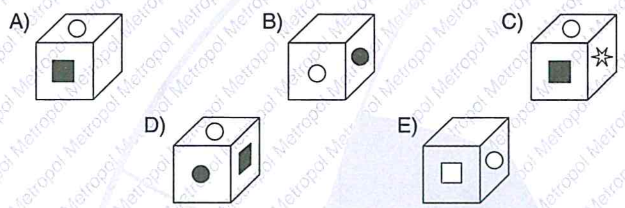
1	2	3	4	5	6
D	E	E	D	B	D

1.

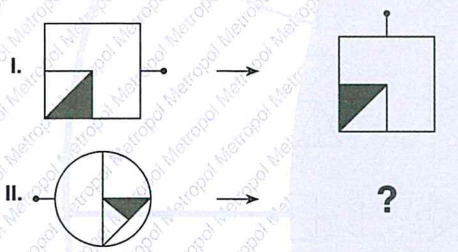


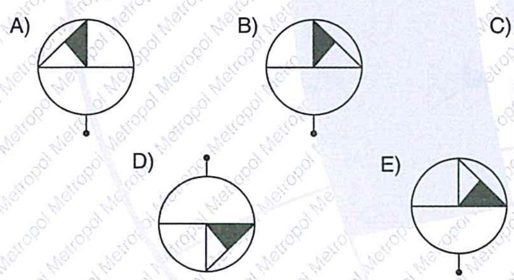
Yukarıdaki soruda I. adımda tüm yüzeyleri saydam <u>olmayan</u> küpün açık hali verilmiştir. Buna göre, bu küpün II. adımdaki kapalı görüntüsünü bulunuz.

In the question above, the open view of a cube whose all sides are <u>not</u> transparent is given in step I. Accordingly, find the folded form of the cube in step II.



2.





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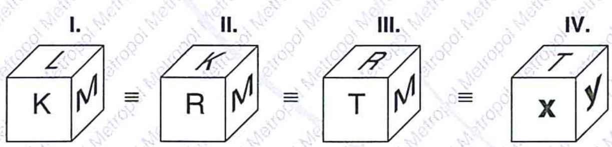


⇒ x ; y = ?

Yukarıdaki soruda tüm yüzeyleri saydam <u>olmayan</u> bir küpün I, II, III ve IV. adımda farklı kapalı görüntüleri verilmiştir. Buna göre x ve y aşağıdakilerden hangisidir?

The different folded forms of a cube whose all sides are <u>not</u> transparent are given in steps I, II, III and IV. above. Accordingly, which of the following is x and y?

A) L ; M

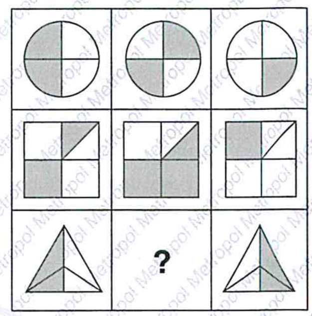
B) L ; R

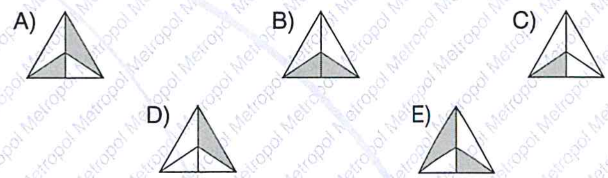
C) R ; L

D) M ; K

E) R ; M

4.





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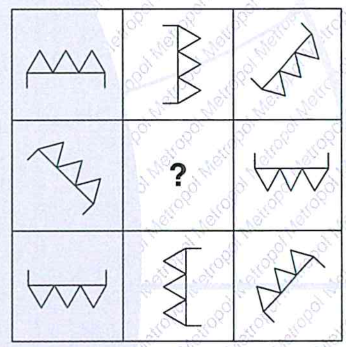

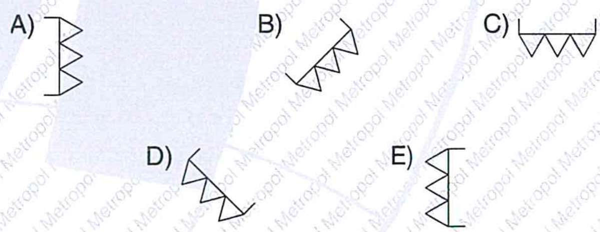

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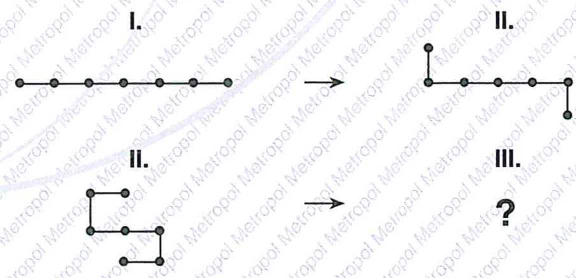

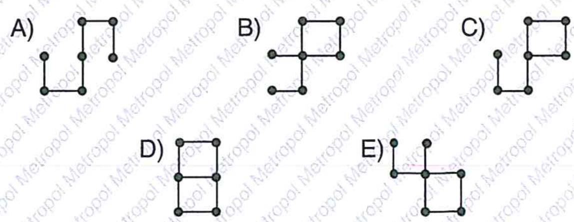

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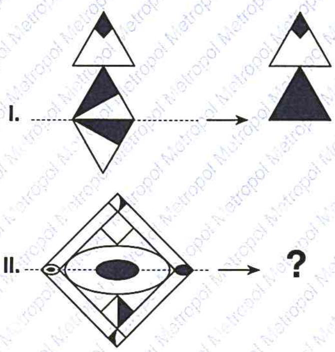

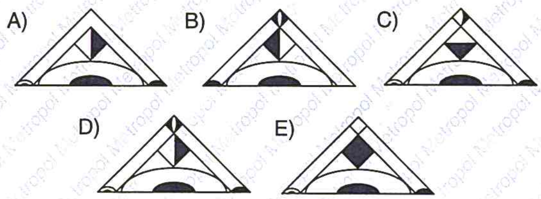

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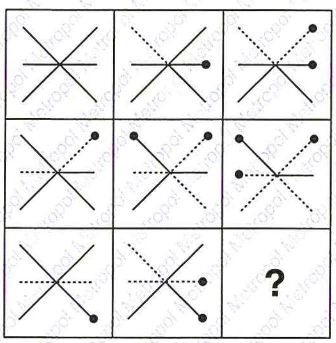

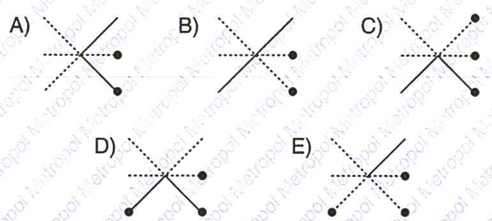

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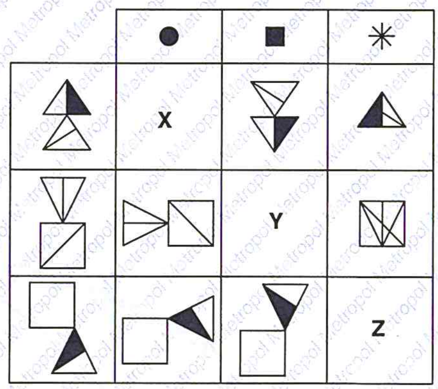
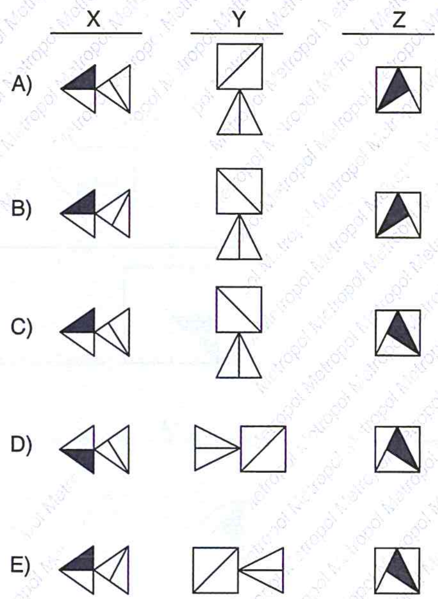


⇒ X = ? ; Y = ? ; Z = ?



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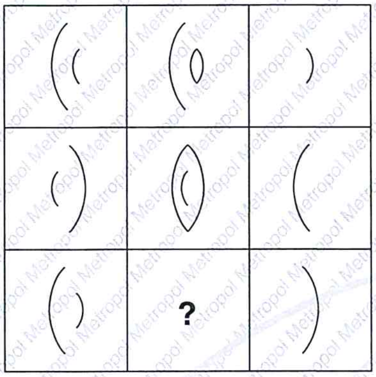
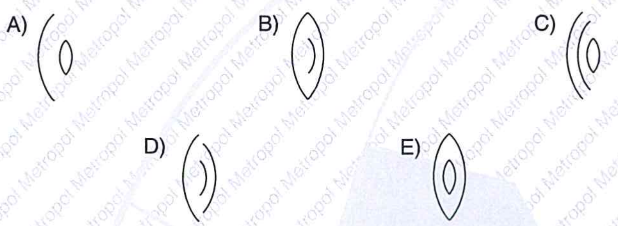
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9
E	A	A	C	B	A	D	C	C

1.





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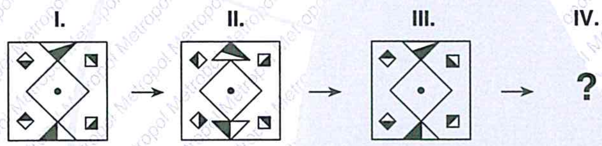
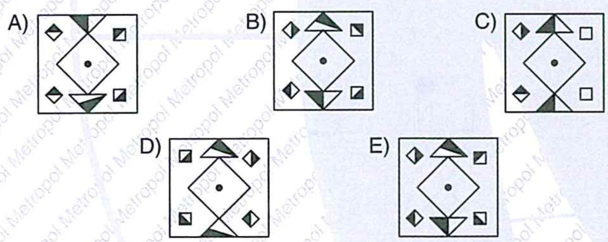
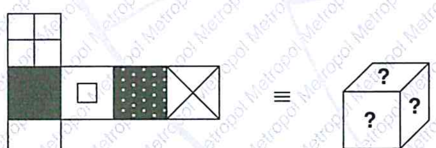




3.



Yukarıdaki soruda I. adımda tüm yüzeyleri saydam <u>olmayan</u> küpün açık hali verilmiştir. Buna göre, bu küpün II. adımdaki kapalı görüntüsünü bulunuz.

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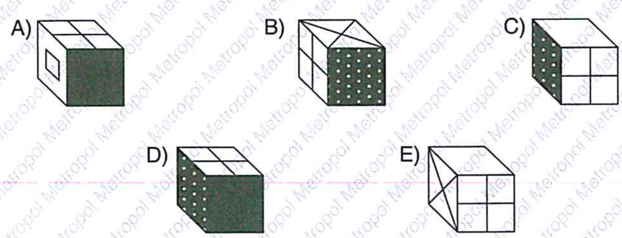

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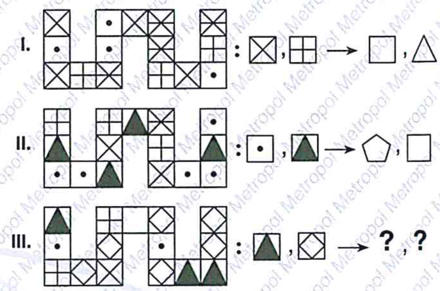
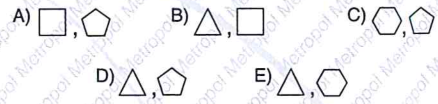
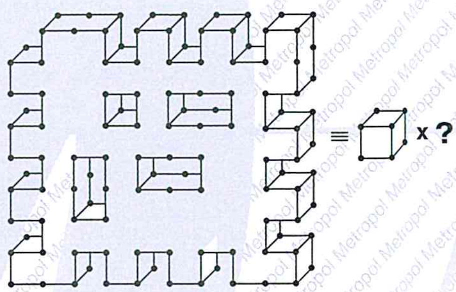


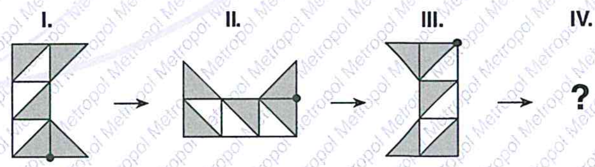


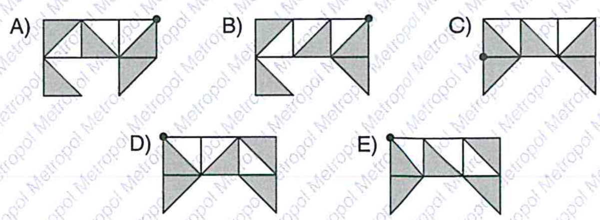
5.



A) 50 B) 51 C) 52 D) 53 E) 54

6.





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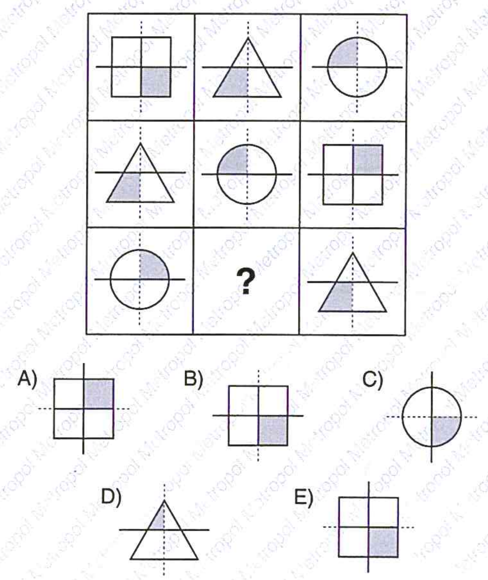

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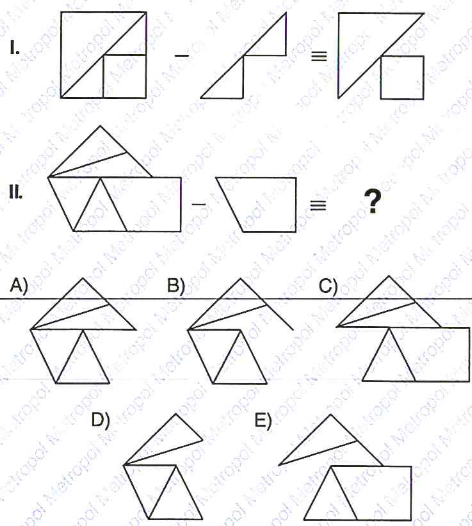

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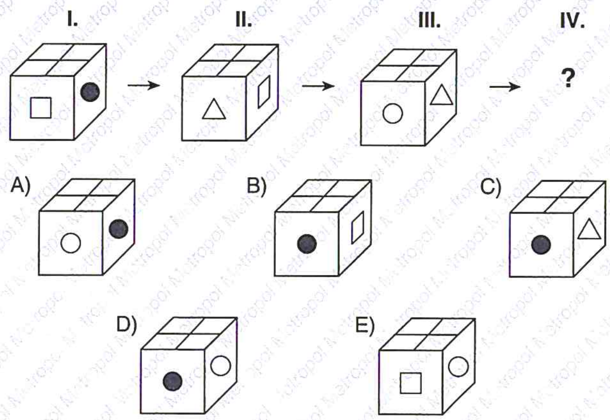

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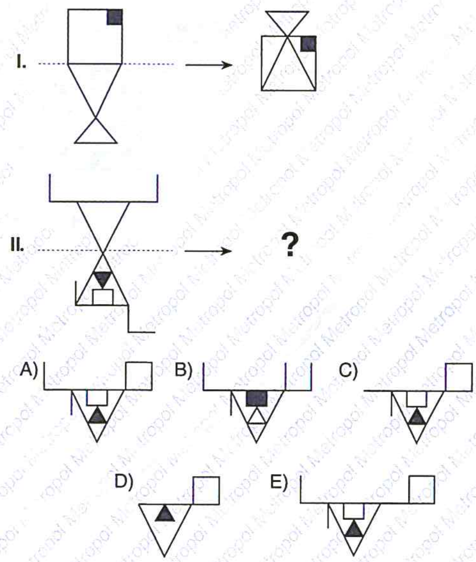
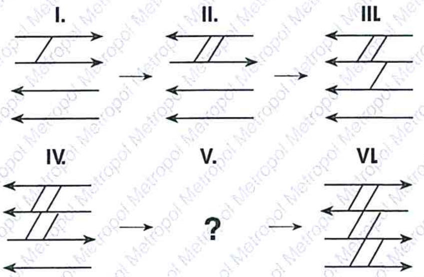
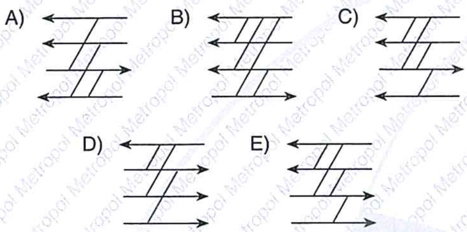


YANITLAR / ANSWERS

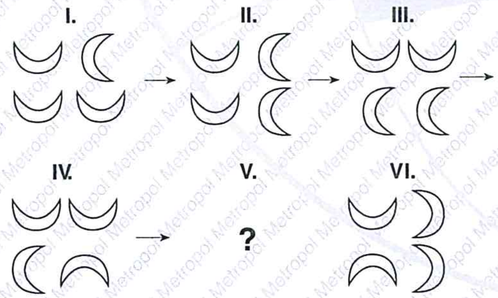
1	2	3	4	5	6	7	8	9	10
B	E	B	E	C	E	B	B	D	A

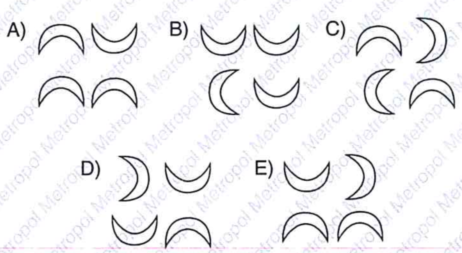
1.


I.
II.
III.
IV.
V.
VI.
?

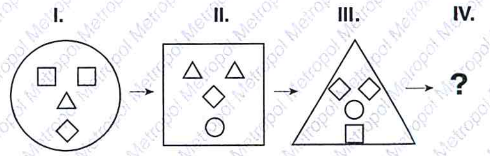

A)
B)
C)
D)
E)

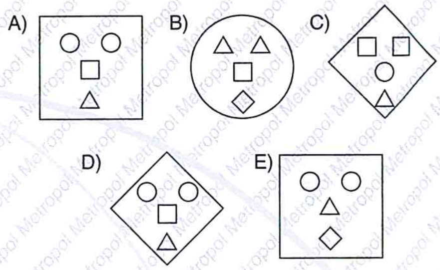
2.


I.
II.
III.
IV.
V.
VI.
?

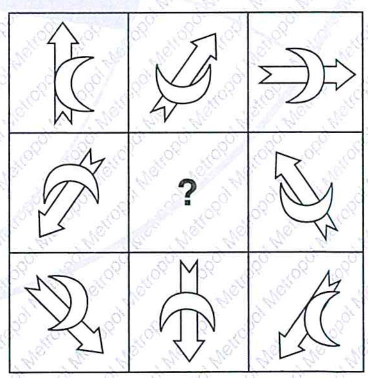

A)
B)
C)
D)
E)

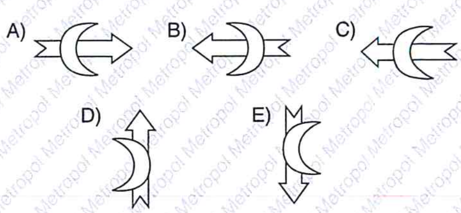
3.


I.
II.
III.
IV.
?

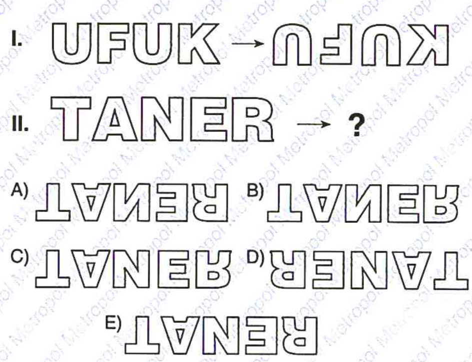

A)
B)
C)
D)
E)

4.


?


A)
B)
C)
D)
E)

5.



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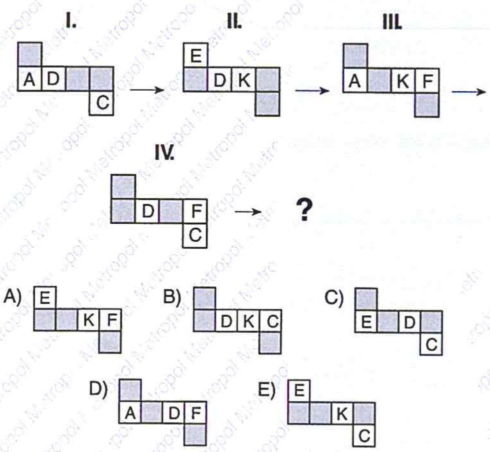

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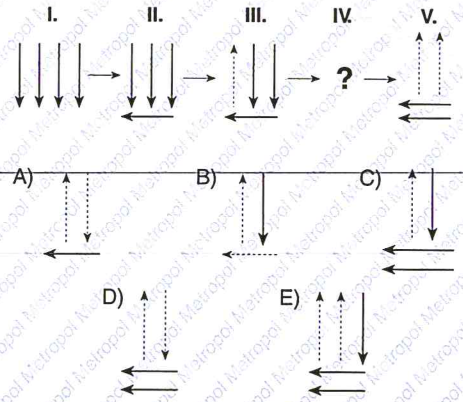

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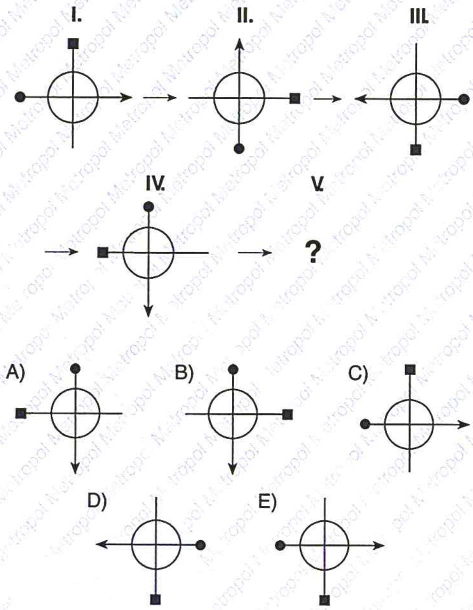

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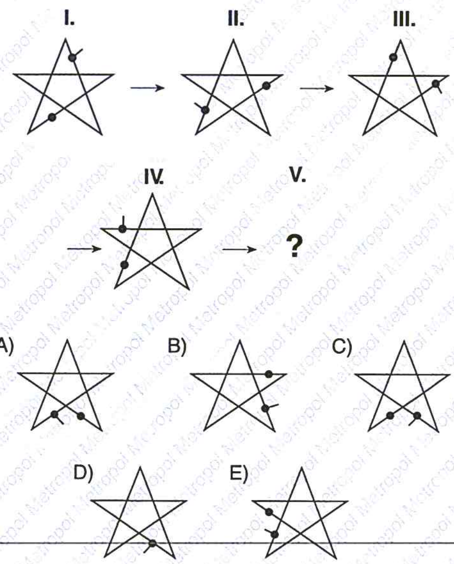
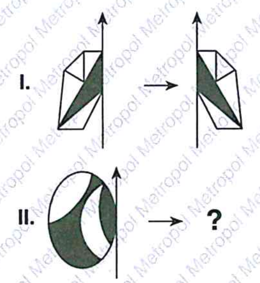
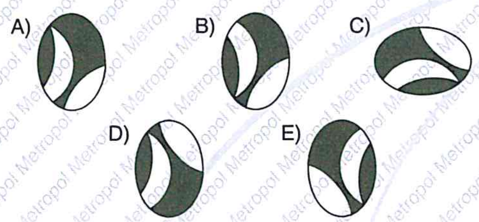


YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9
E	E	D	C	E	E	C	C	D

1.





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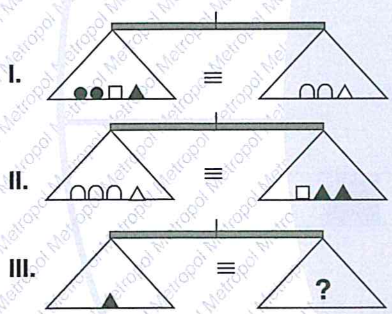

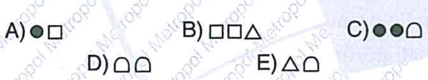

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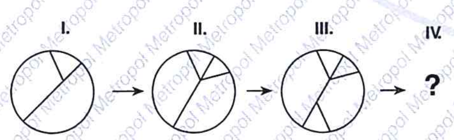
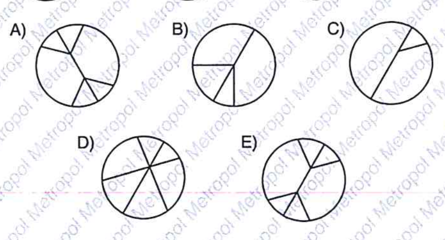
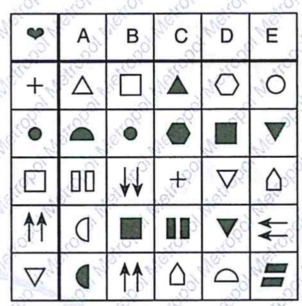


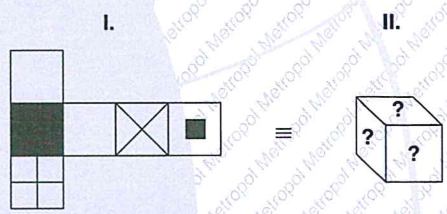


4.



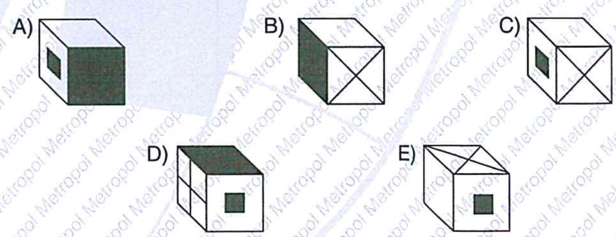
$\Rightarrow \left[(C ❤ \square) ❤ B\right] ❤ E = ?$

5.



Yukarıdaki soruda I. adımda tüm yüzeyleri saydam <u>olmayan</u> küpün açık hali verilmiştir. Buna göre, bu küpün II. adımdaki kapalı görüntüsünü bulunuz.

In the question above, the open view of a cube whose all sides are <u>not</u> transparent is given in step I. Accordingly, find the folded form of the cube in step II.



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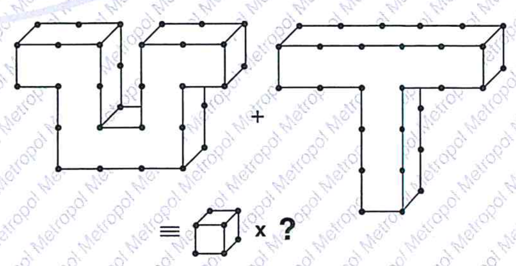
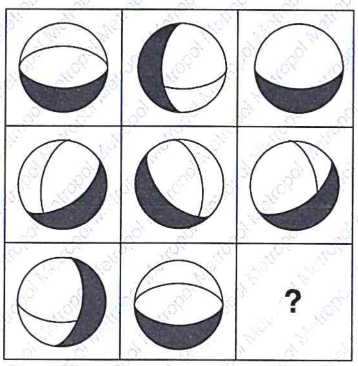
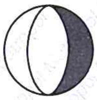


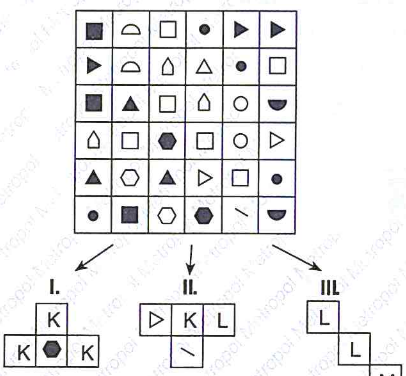
A) 15 B) 16 C) 17 D) 18 E) 19

7.



A) 
B) 
C) 
D) 
E) 

8.



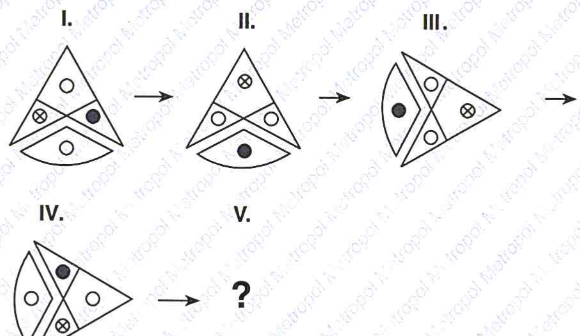
⇒ L= ? ; M = ?

I, II ve III yukarıdaki tablonun farklı birer parçasıdır. Buna göre, L ve M nin yerine aşağıdakilerden hangisi gelmelidir?

I, II and III are different parts of the figure above. Accordingly, which of the following combinations should replace L and M?

	L	M
A)	⌓	○
B)	●	▷
C)	□	○
D)	●	◒
E)	□	◓

9.



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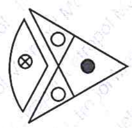
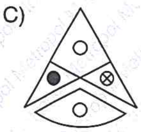
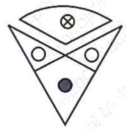
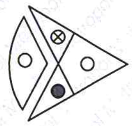
B) 
C) 
D) 
E) 

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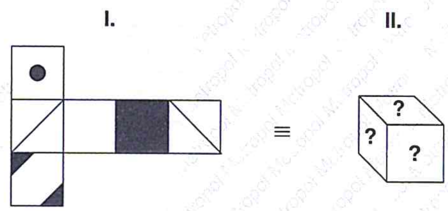
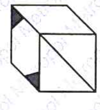
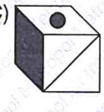
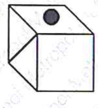
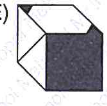


Yukarıdaki soruda I. adımda tüm yüzeyleri saydam <u>olmayan</u> küpün açık hali verilmiştir. Buna göre, bu küpün II. adımdaki kapalı görüntüsünü bulunuz.

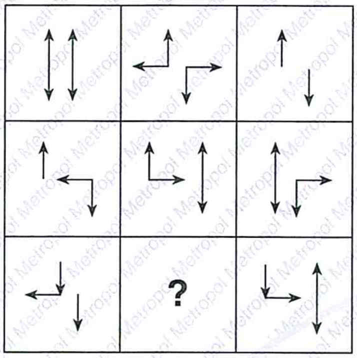
In the question above, the open view of a cube whose all sides are <u>not</u> transparent is given in step I. Accordingly, find the folded form of the cube in step II.

A) 
B) 
C) 
D) 
E) 

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
D	C	E	E	A	C	B	D	A	D

1.



A) 

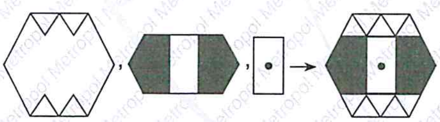
B) 

C) 

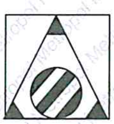
D) 

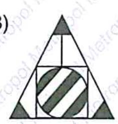
E) 

2.

I. 

II. 

A) 

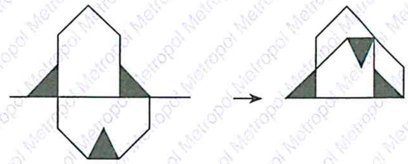
B) 

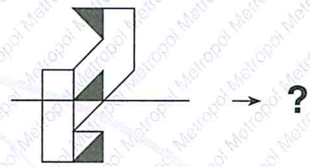
C) 

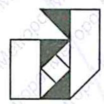
D) 

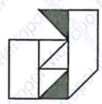
E) 

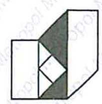
3.

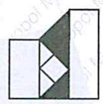
I. 

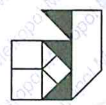
II. 

A) 

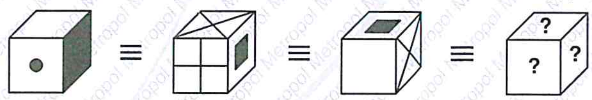
B) 

C) 

D) 

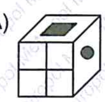
E) 

4. I. II. III. IV.

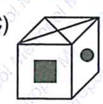


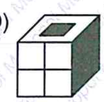
Yukarıdaki soruda tüm yüzeyleri saydam <u>olmayan</u> bir küpün I, II, III ve IV. adımda farklı kapalı görüntüleri verilmiştir. Buna göre bu küpün IV. adımdaki kapalı hali aşağıdakilerden hangisidir?

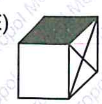
The different folded forms of a cube whose all sides are <u>not</u> transparent are given in steps I, II, III and IV above. Accordingly, which of the following is the folded form of this cube in step IV?

A) 

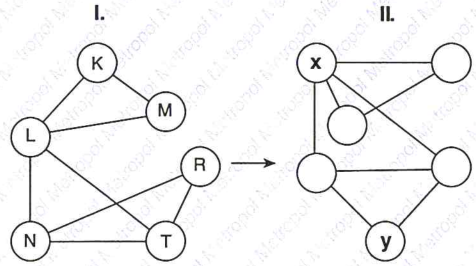
B) 

C) 

D) 

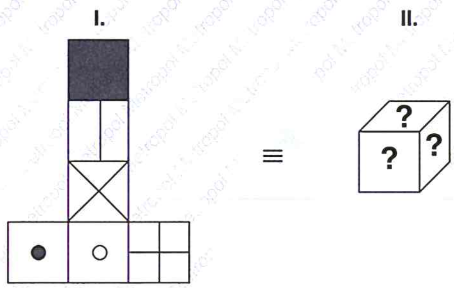
E) 

5.



A) L ; M B) N ; R C) L ; K
D) N ; K E) L ; R

6.



Yukarıdaki soruda I. adımda tüm yüzeyleri saydam <u>olmayan</u> küpün açık hali verilmiştir. Buna göre, bu küpün II. adımdaki kapalı görüntüsünü bulunuz.

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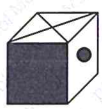
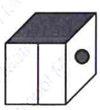
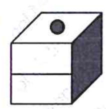
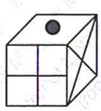
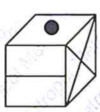
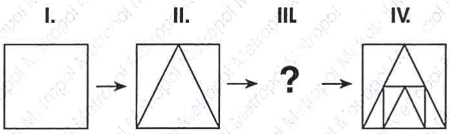
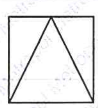
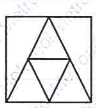
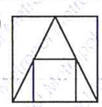
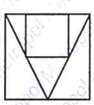
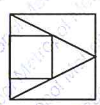
A)  B)  C) 

D)  E) 

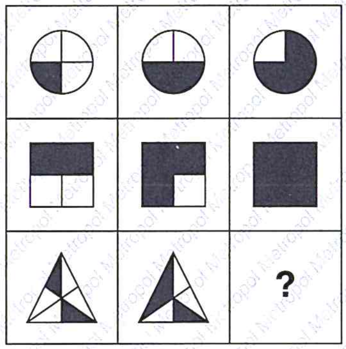
7.

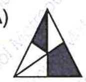
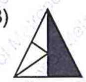
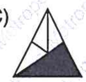


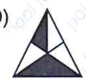
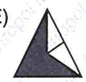
A)  B)  C) 

D)  E) 

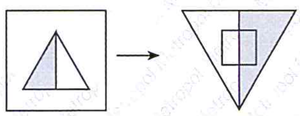
8.

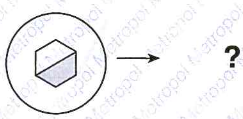


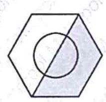
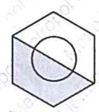
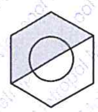
A)  B)  C) 

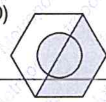
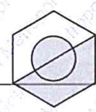
D)  E) 

9.

I. 

II. 

A)  B)  C) 

D)  E) 

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9
C	C	E	A	E	C	C	E	C

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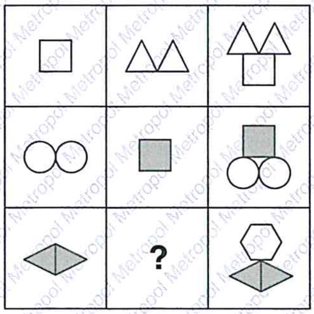
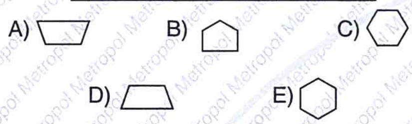
1.





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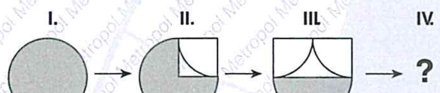

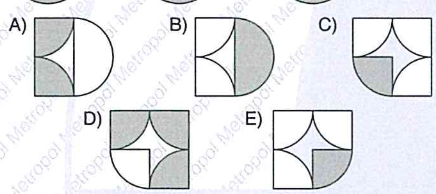

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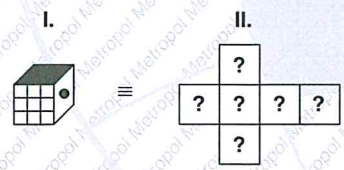
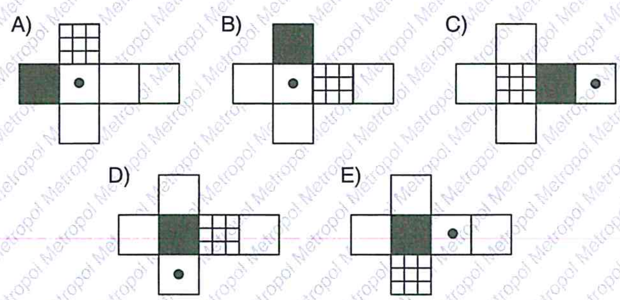


Yukarıdaki soruda I. adımda tüm yüzeyleri saydam <u>olmayan</u> küpün kapalı hali verilmiştir. Buna göre, bu küpün II. adımdaki açık görüntüsünü bulunuz.

In the question above, the folded form of a cube whose all sides are <u>not</u> transparent is given in step I. Accordingly, find the open view of the cube in step II.



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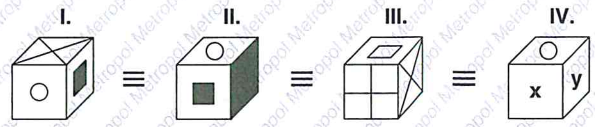
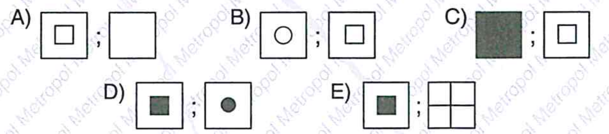


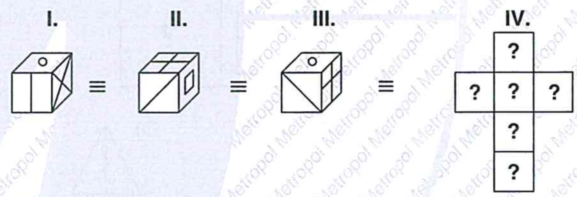
$\Rightarrow$ x; y = ?

Yukarıdaki soruda tüm yüzeyleri saydam <u>olmayan</u> bir küpün I, II, III ve IV. adımda farklı kapalı görüntüleri verilmiştir. Buna göre x ve y aşağıdakilerden hangisidir?

The different folded forms of a cube whose all sides are <u>not</u> transparent are given in steps I, II, III and IV. above. Accordingly, which of the following is x and y?

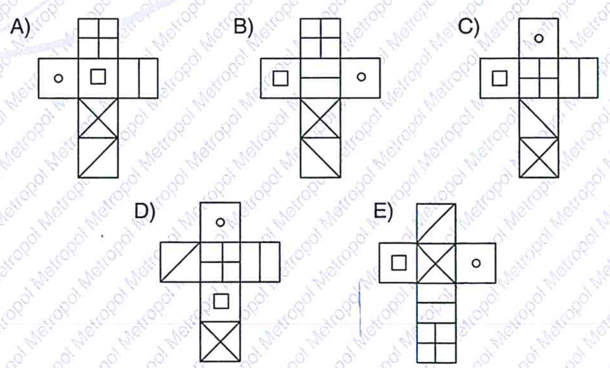


5.

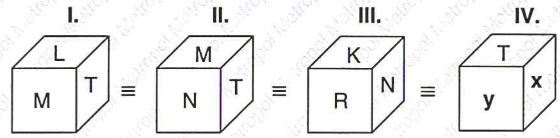


Yukarıdaki soruda tüm yüzeyleri saydam <u>olmayan</u> küpün I, II ve III adımda farklı açılardan kapalı görüntüleri, IV. adımda da açık görüntüsü verilmiştir. Buna göre bu küpün açık hali aşağıdakilerden hangisidir?

The folded forms from different angles of a cube whose all sides are <u>not</u> transparent are given in steps I, II, and III and the open form is given in step IV. Accordingly, which of the following is the open view of this cube?



6.



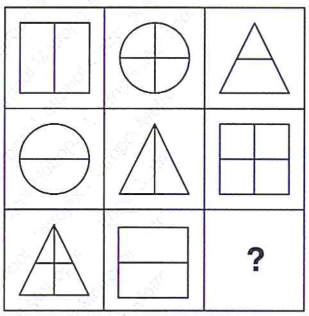
⇒ x ; y = ?

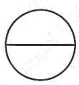
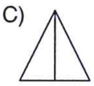
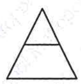
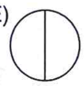
Yukarıdaki soruda tüm yüzeyleri saydam olmayan bir küpün I, II, III ve IV. adımda farklı kapalı görüntüleri verilmiştir. Buna göre x ve y aşağıdakilerden hangisidir?

The different folded forms of a cube whose all sides are not transparent are given in steps I, II, III and IV. above. Accordingly, which of the following is x and y?

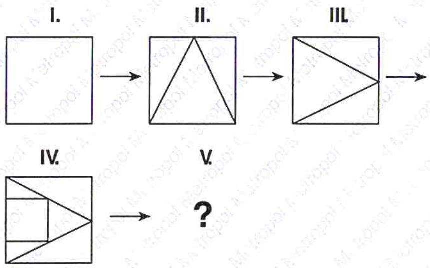
A) L ; M
B) L ; R
C) K ; M
D) M ; L
E) M ; R

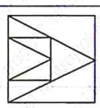
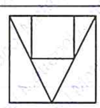
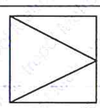
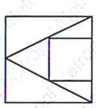
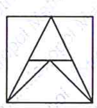
7.



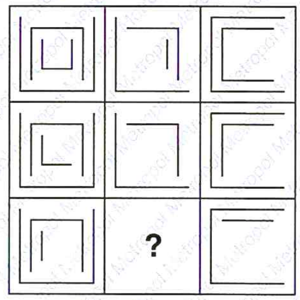
A) 
B) 
C) 
D) 
E) 

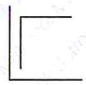
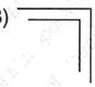
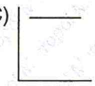
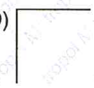
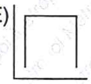
8.



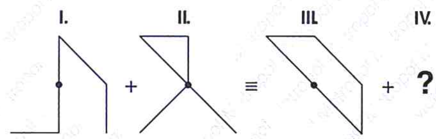
A) 
B) 
C) 
D) 
E) 

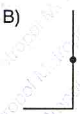
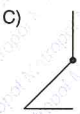
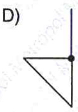
9.



A) 
B) 
C) 
D) 
E) 

10.

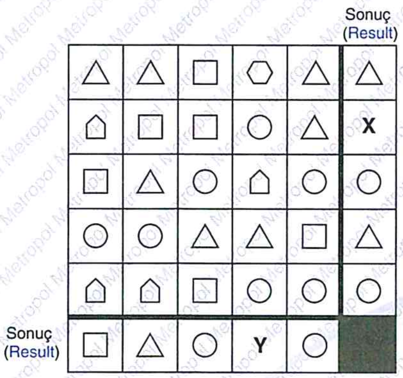


A) 
B) 
C) 
D) 
E) 

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	E	E	C	C	B	E	B	C	E

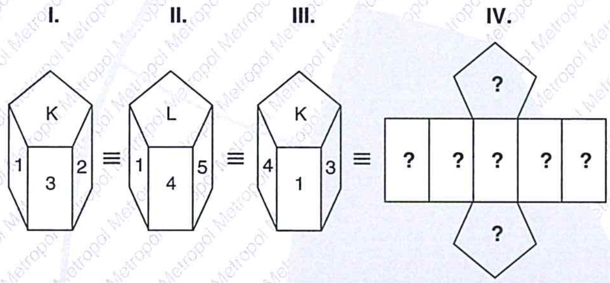
1.



⇒ X ;Y= ?

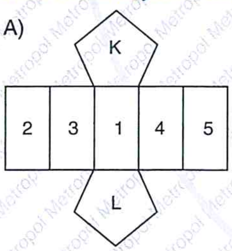
A) □ ; ○ B) △ ; ⌂ C) □ ; ⌂
D) ⬡ ; ○ E) △ ; ○

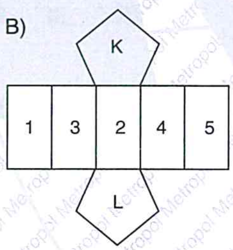
2.

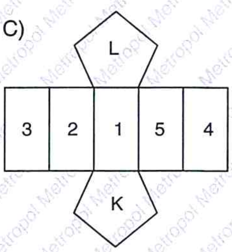


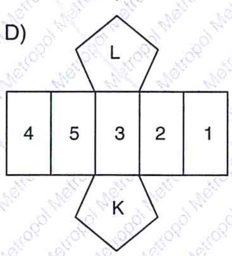
Yukarıdaki soruda, tüm yüzeyleri saydam <u>olmayan</u> üç boyutlu cismin I, II ve III. adımlarda farklı açılardan kapalı görüntüleri verilmiştir. Buna göre, üç boyutlu cismin IV. adımdaki açık görüntüsünü bulunuz.

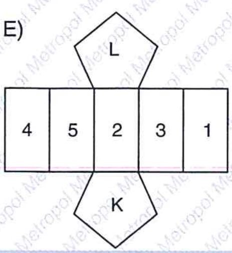
In the question above folded form from different angles of three dimensional object whose all sides are <u>not</u> transparent are given in steps I, II and III. Accordingly, find the open form of the three dimensional object in steps IV.

A)


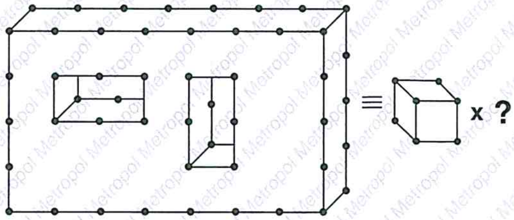
B)


C)


D)


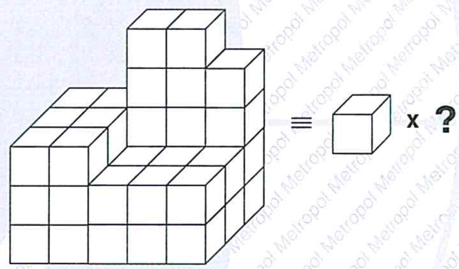
E)


3.



A) 18 B) 20 C) 22
D) 24 E) 26

4.

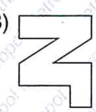


A) 44 B) 45 C) 46 D) 47 E) 48

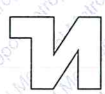
5. **Aşağıdaki soruda farklı olan şekli bulunuz.**

Find the different figure in the following question.

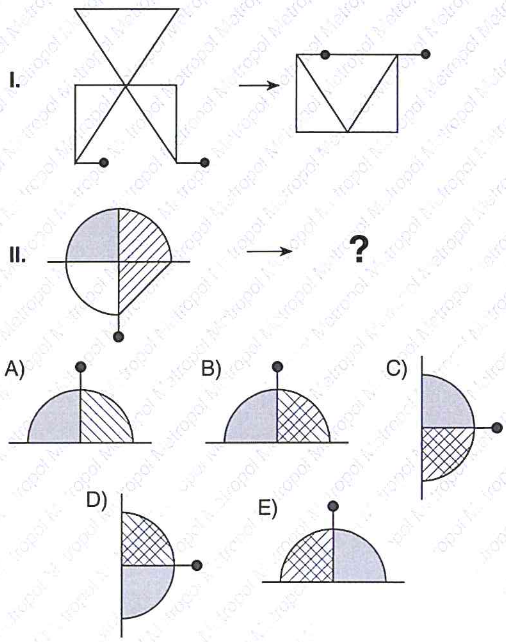
A)

B)

C)

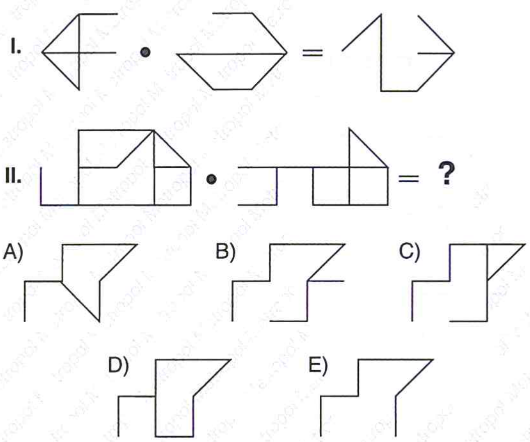

D)

E)


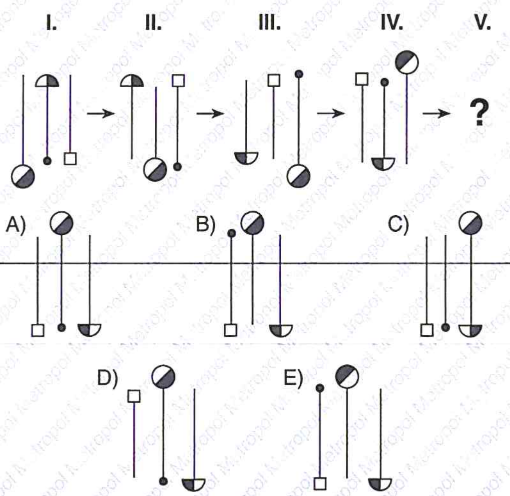
6.



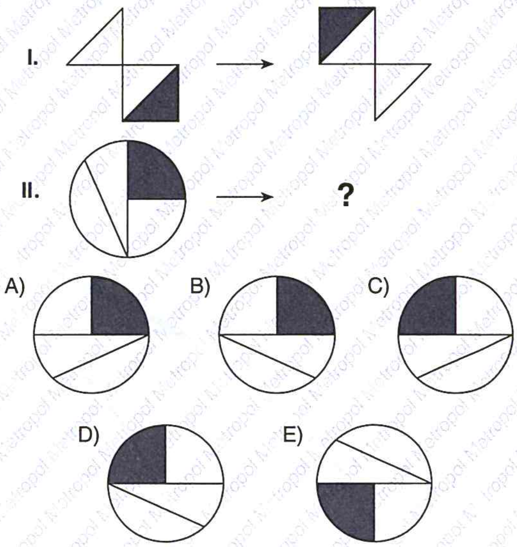
7.



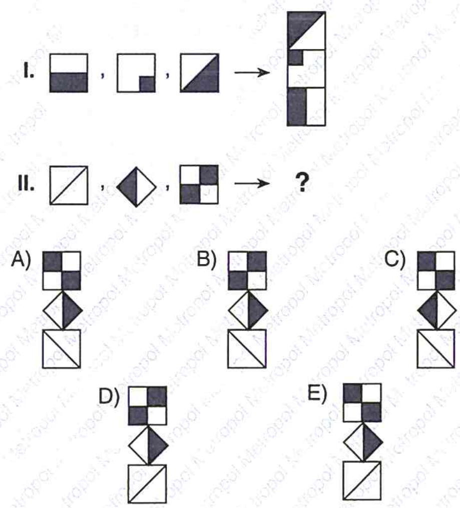
8.



9.



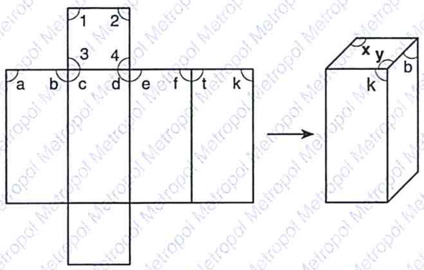
10.



YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	E	D	A	E	B	B	E	B	B

1.

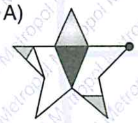


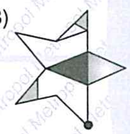
$\Rightarrow$ x ; y = ?

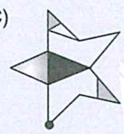
A) 1 ; 2 B) 2 ; 4 C) 3 ; 4 D) 1 ; 4 E) 2 ; 3

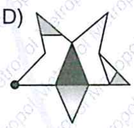
2. **Aşağıdaki soruda farklı olan şekli bulunuz.**

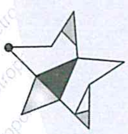
Find the different figure in the following question.

A) 

B) 

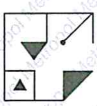
C) 

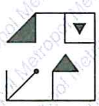
D) 

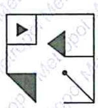
E) 

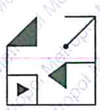
3. **Aşağıdaki soruda farklı olan şekli bulunuz.**

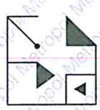
Find the different figure in the following question.

A) 

B) 

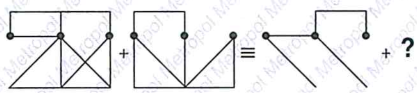
C) 

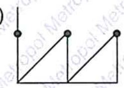
D) 

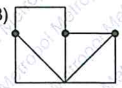
E) 

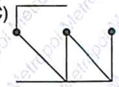
4.

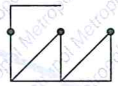
I. II. III. IV.

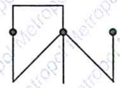


A) 

B) 

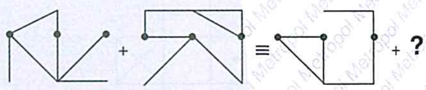
C) 

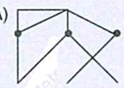
D) 

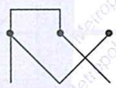
E) 

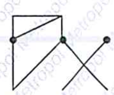
5.

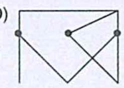
I. II. III. IV.

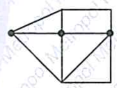


A) 

B) 

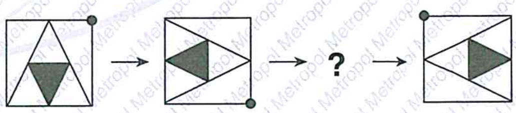
C) 

D) 

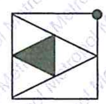
E) 

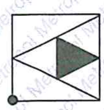
6.

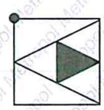
I. II. III. IV.

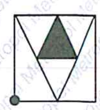


A) 

B) 

C) 

D) 

E) 

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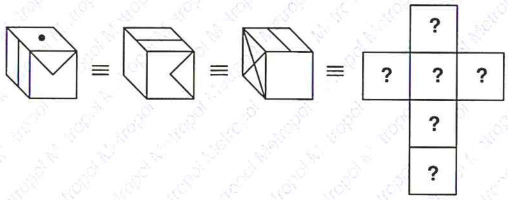
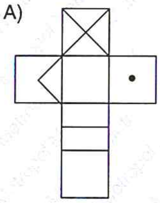
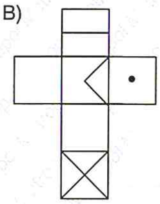
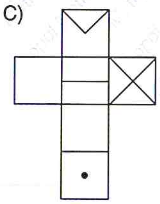
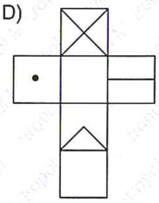
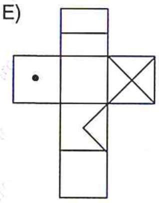
7.

I. II. III. IV.



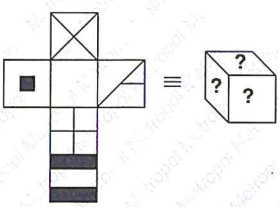
Yukarıdaki soruda, tüm yüzeyleri saydam olmayan küpün I, II ve III. adımlarda farklı açılardan kapalı görüntüleri verilmiştir. Buna göre, küpün IV. adımdaki açık görüntüsünü bulunuz.

In the question above folded form from different angles of cube whose all sides are not transparent are given in steps I, II and III. Accordingly, find the open form of the cube in steps IV.

A) 
B) 
C) 
D) 
E) 

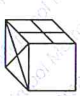
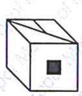
8.

I. II.



Yukarıdaki soruda I. adımda tüm yüzeyleri saydam olmayan küpün açık hali verilmiştir. Buna göre, bu küpün II. adımdaki kapalı görüntüsünü bulunuz.

In the question above, the open view of a cube whose all sides are not transparent is given in step I. Accordingly, find the folded form of the cube in step II.

A) 
B) 
C) 
D) 
E) 

9.

□	⬡	■	↑	▲	↑
□	□	=	=	▲	□
=	⬡	↑	=	↓	+
▲	⬡	△	△	+	□
↑	■	↑	□	▲	△
■	↓	=	+	□	+

K	K
↑	K

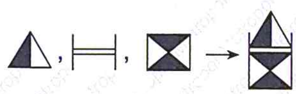
L	L
↑	M

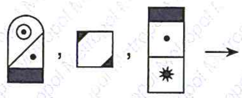
T	L
M	+

⇒ L ; T = ?

A) + ; ↓ B) ▲ ; ↓ C) □ ; ⬡
D) △ ; ⬡ E) △ ; ▲

10.

I. 

II.  ?

A) 
B) 
C) 
D) 
E) 

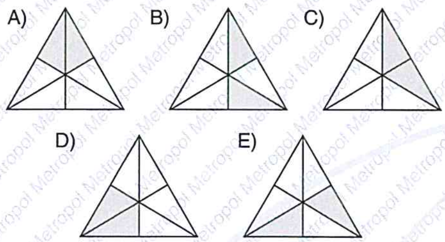
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
D	C	D	D	A	E	B	A	E	A

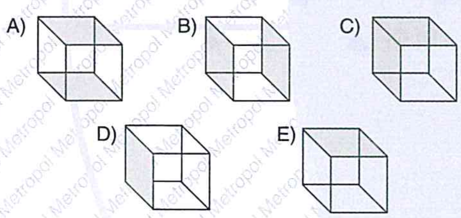
1 – 10. sorularda farklı olan şekli bulunuz.

Find the different figure in the questions 1 – 10.

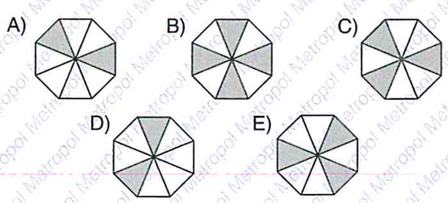
1.



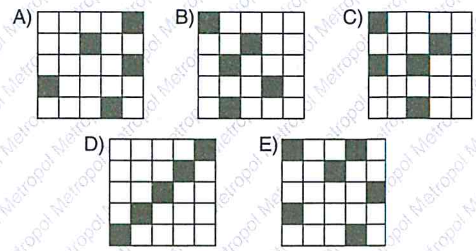
2.



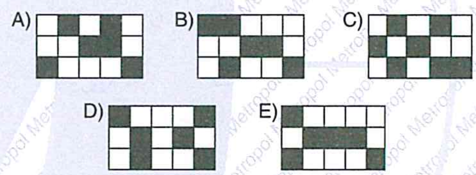
3.



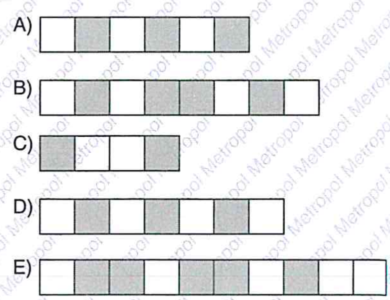
4.



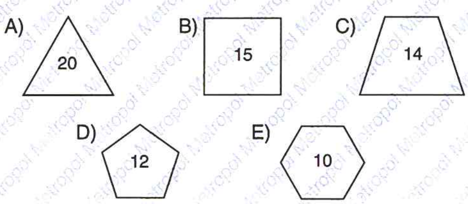
5.



6.



7.



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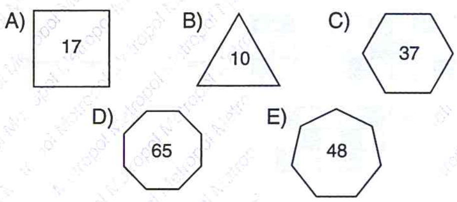

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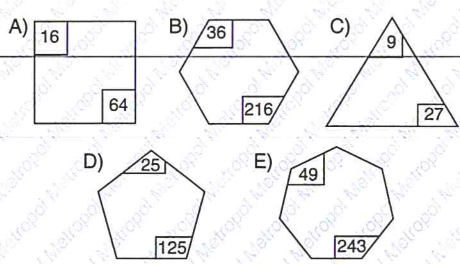
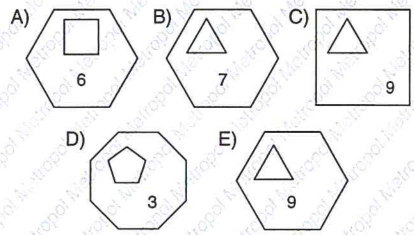
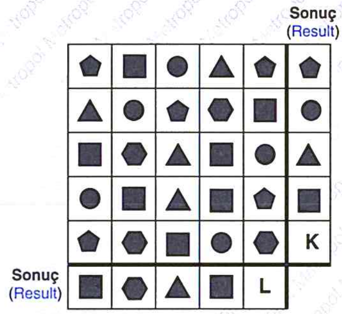


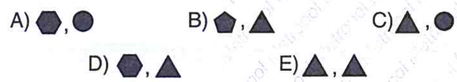
10.



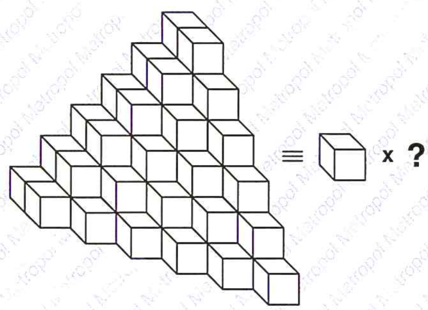
11.



⇒ K = ? , L = ?



12.

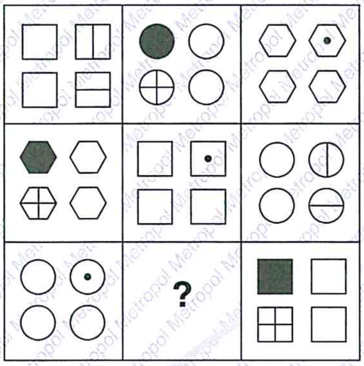


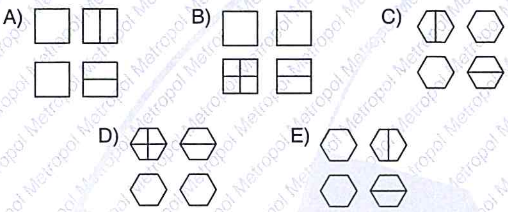
A) 76 B) 77 C) 78 D) 79 E) 80

YANITLAR / ANSWERS

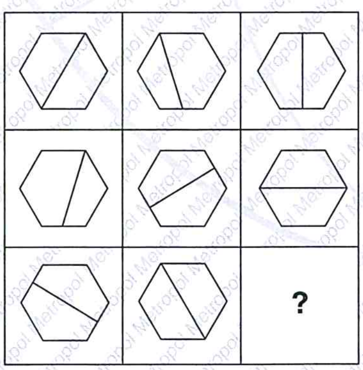
1	2	3	4	5	6	7	8	9	10	11	12
C	C	B	E	C	D	C	E	E	E	A	B

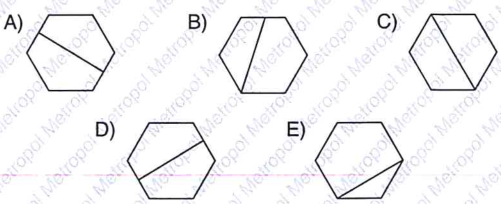
1.



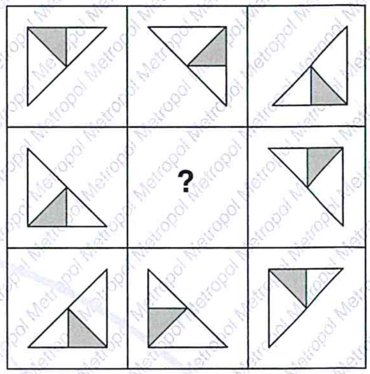


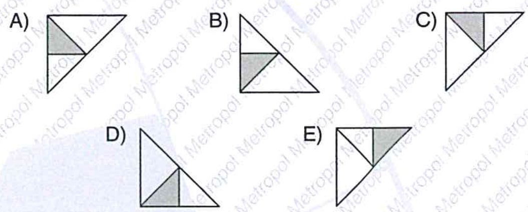
2.



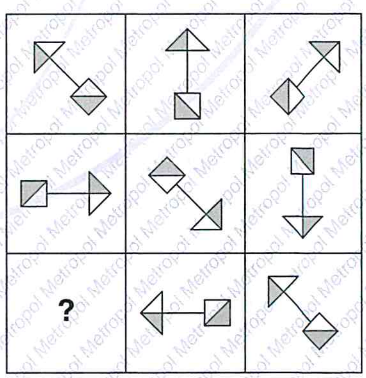


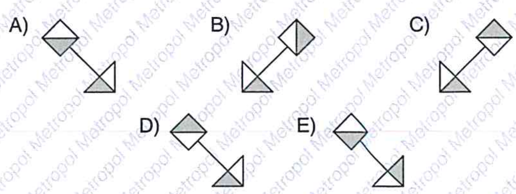
3.





4.





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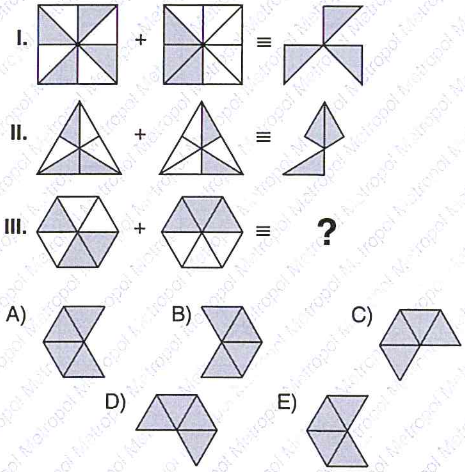
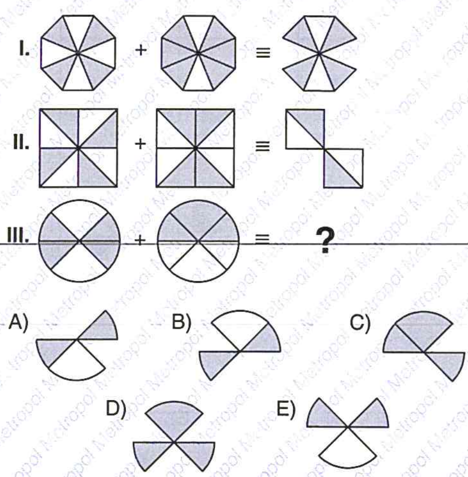


6.



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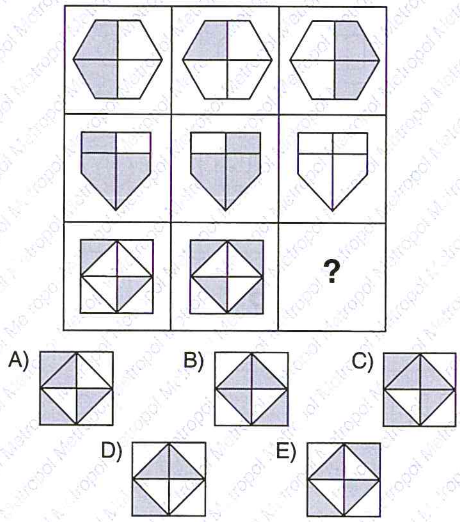

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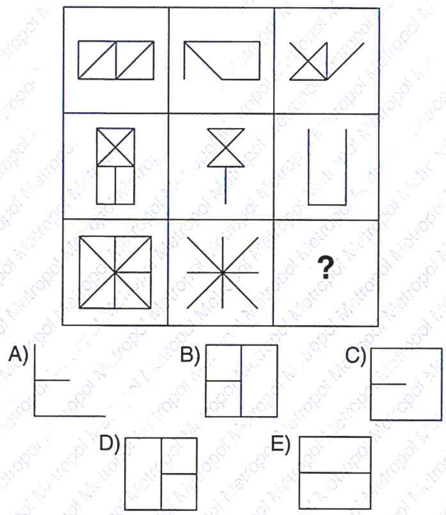
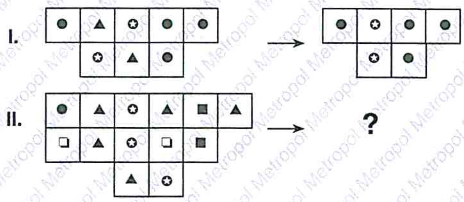
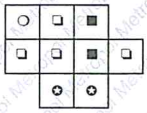


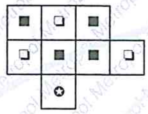
YANITLAR / ANSWERS

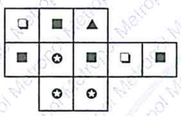
1	2	3	4	5	6	7	8
E	B	A	B	B	E	D	C

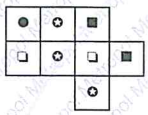
1.

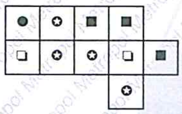


A)


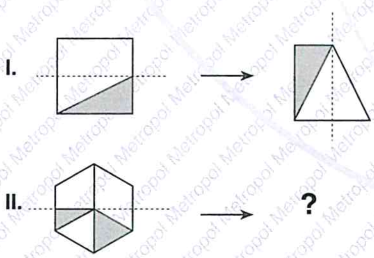
B)


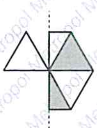
C)


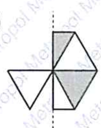
D)


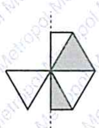
E)


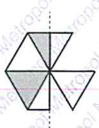
2.

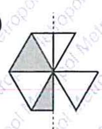


A)


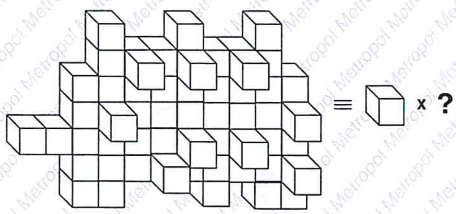
B)


C)


D)


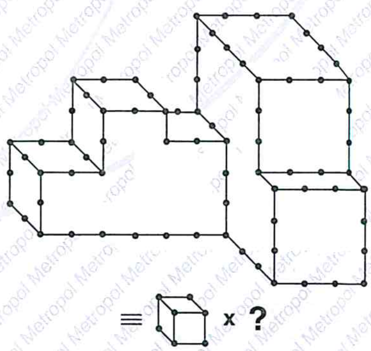
E)


3.



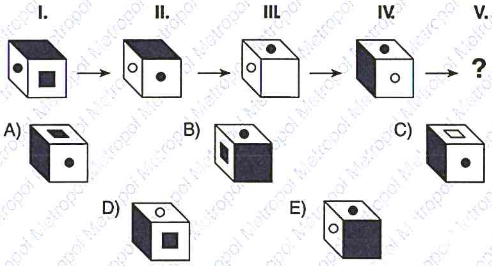
A) 60
B) 61
C) 62
D) 63
E) 64

4.

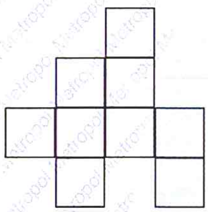


A) 117
B) 118
C) 119
D) 120
E) 121

5.

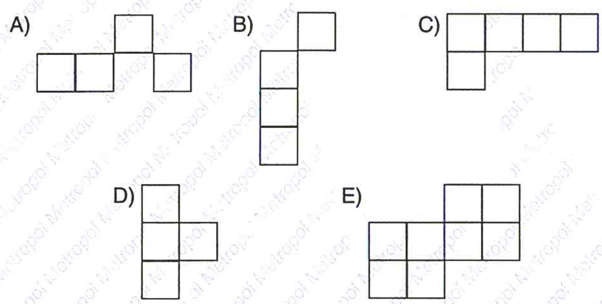


6.

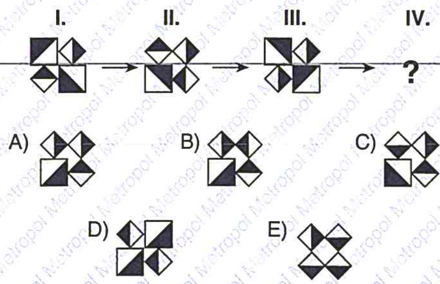


Aşağıdakilerden hangisi verilen şeklin bir parçası değildir?

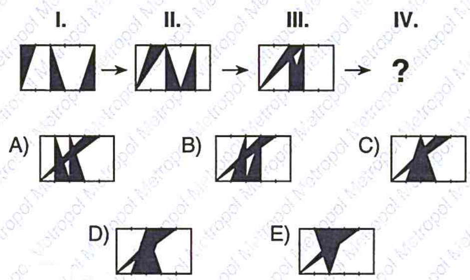
Which of the following is not a part of the figure above?



7.



8.



9.

I. 

II. | A | B | | X | Y | | B | X | → ?

A) | A | X | Y | B |

B) | A | B | Y | Y |

C) | A | X | Y | B |

D) | A | B | X | Y |

E) | A | B | Y | X |

10.

≥ □ ≥ ■ ○ ≥ ω ε π ≥ ? ≥

A) M 8 ●●

B) ∞ Q ∧ ∨

C) □ ○ ω

D) ω π ● +

E) X ⊞ △ ○

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
D	E	C	A	D	E	A	C	D	B

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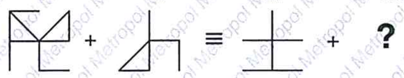
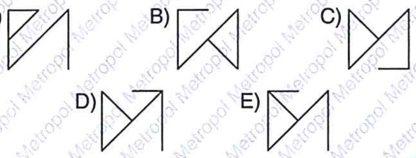
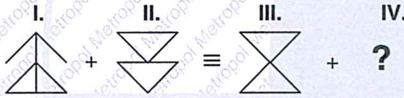
1. I. II. III. IV.



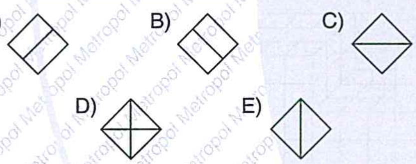
A) B) C) D) E)



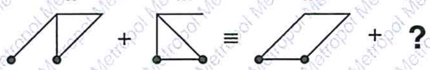
2. I. II. III. IV.



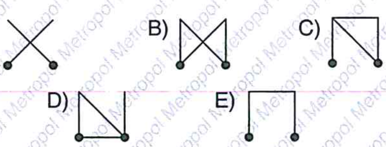
A) B) C) D) E)



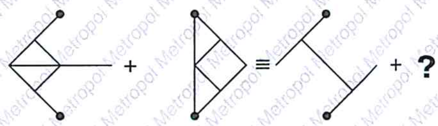
3. I. II. III. IV.



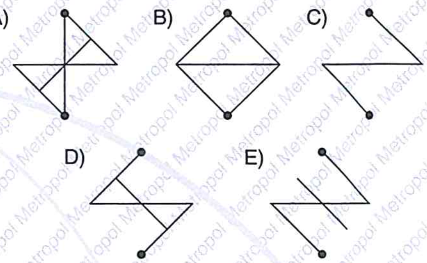
A) B) C) D) E)



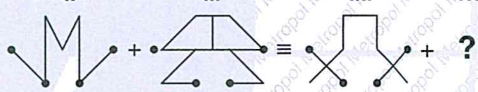
4. I. II. III. IV.



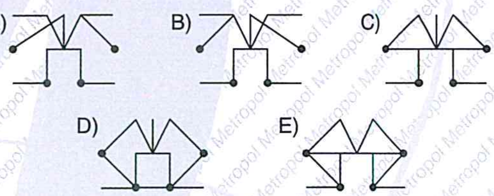
A) B) C) D) E)



5. I. II. III. IV.

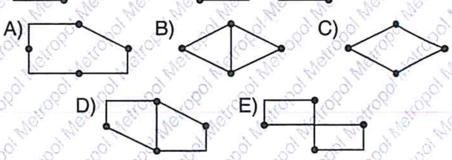


A) B) C) D) E)



6. I. II. III. IV.

A) B) C) D) E)



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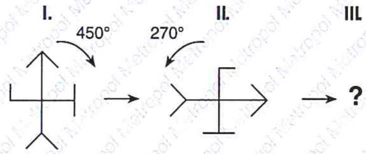

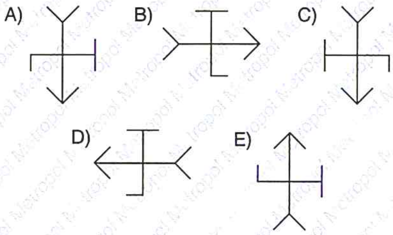

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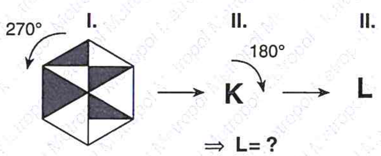
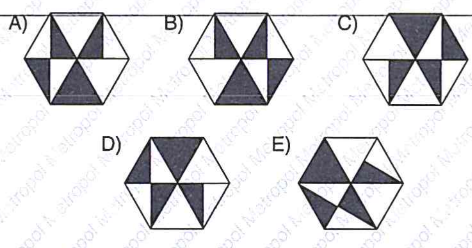


⇒ L= ?



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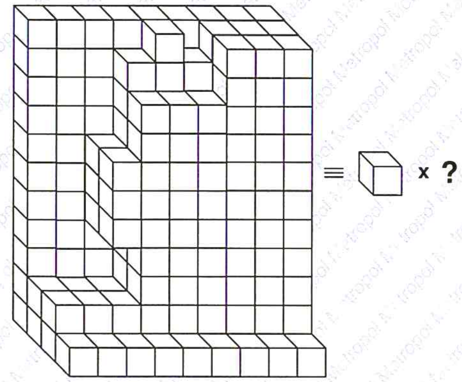
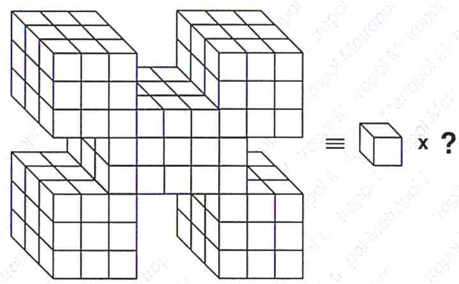


A) 248 B) 250 C) 252 D) 254 E) 256

10.

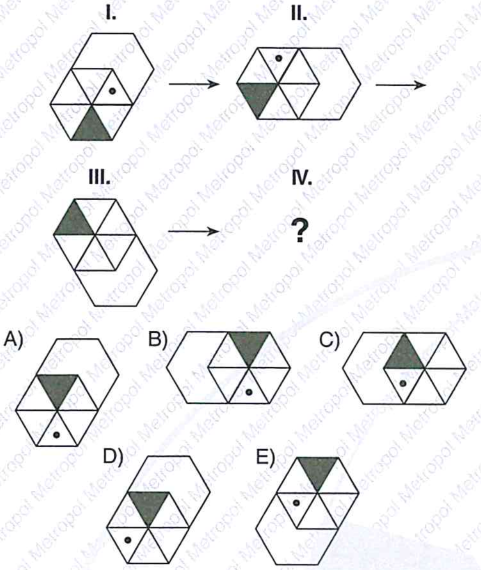


A) 144 B) 147 C) 150 D) 153 E) 156

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
E	D	C	A	C	D	C	A	B	B

1.



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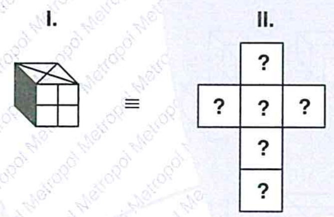
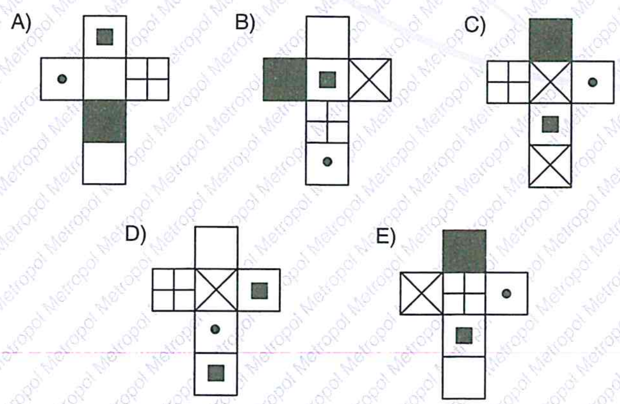
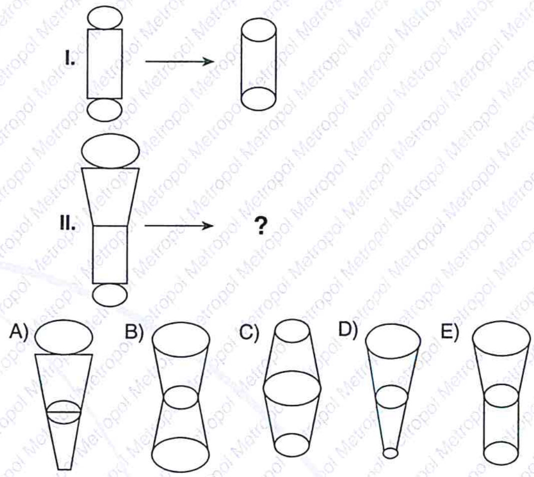


Yukarıdaki soruda I. adımda tüm yüzeyleri saydam olmayan küpün kapalı hali verilmiştir. Buna göre, bu küpün II. adımdaki açık görüntüsünü bulunuz.

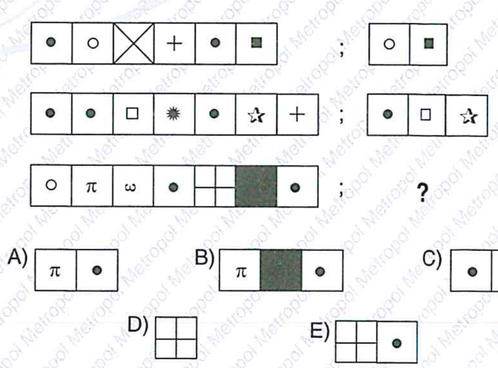
In the question above, the folded form of a cube whose all sides are not transparent is given in step I. Accordingly, find the open view of the cube in step II.



3.



4.



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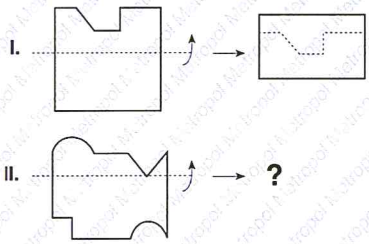
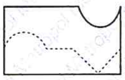
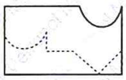
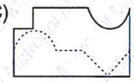
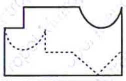
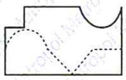
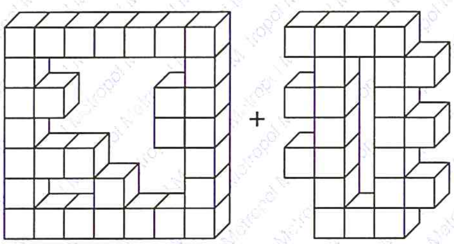
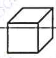


A) 
B) 
C) 
D) 
E) 

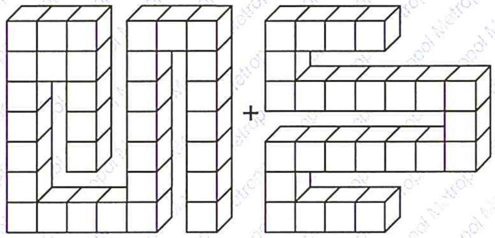
6.



≡  x ?

A) 48
B) 49
C) 50
D) 51
E) 52

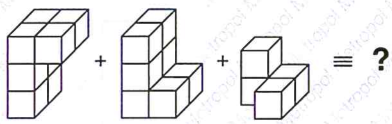
7.

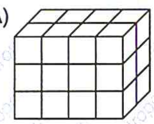
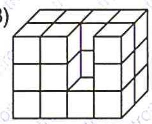
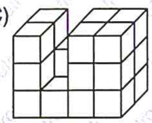
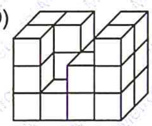
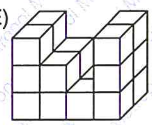


≡  x ?

A) 54
B) 55
C) 56
D) 57
E) 58

8.

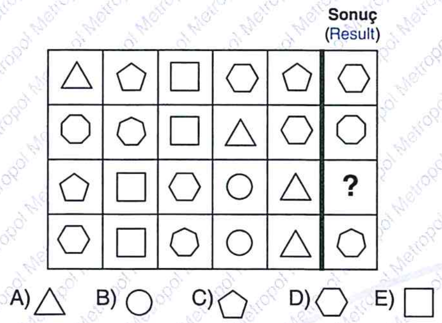


A) 
B) 
C) 
D) 
E) 

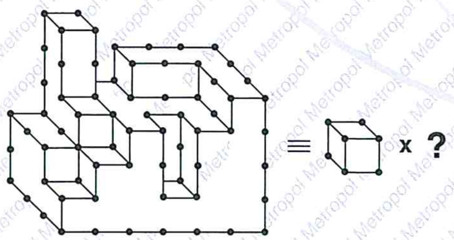
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	C	E	D	C	E	D	D

1.

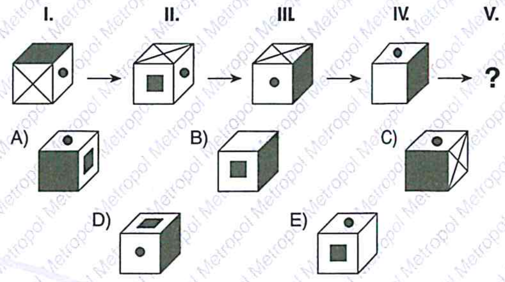


2.



A) 53
B) 54
C) 55
D) 56
E) 57

3.



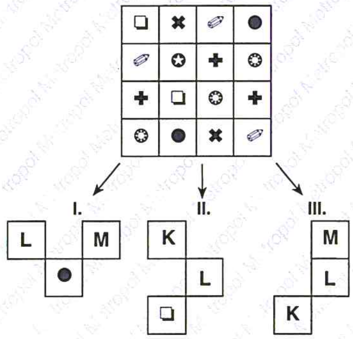
4.

✪	F	H	S	P	R
K	S	N	T	D	A
T	H	F	A	B	T
F	P	L	Y	N	H
R	H	B	U	M	C
V	R	S	M	D	E

((K✪X)✪R)✪(R✪F) = F
⇒ X = ?

A) H B) R C) S D) F E) V

5.



⇒ K ; L ; M = ?

I, II ve III yukarıdaki tablonun farklı birer parçasıdır. Buna göre, K, L VE M nin yerine aşağıdakilerden hangisi gelmelidir?

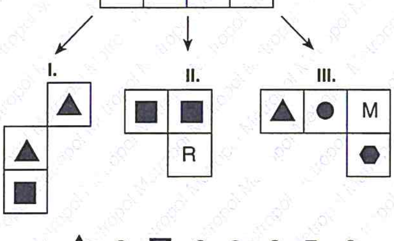
I, II and III are three different parts of the table above. Which of the following do K, L and M stand for?

A) ✖ ; ✚ ; ✪ B) ✚ ; ✪ ; ✪ C) ✖ ; ✏ ; ✚

D) ✏ ; ✚ ; ✏ E) ✪ ; ✚ ; ●

6.

K	T	M	L
N	N	L	K
M	R	K	T
L	R	N	N



⇒ ▲ = ?; ■ = ?; ● = ?; ⬢ = ?

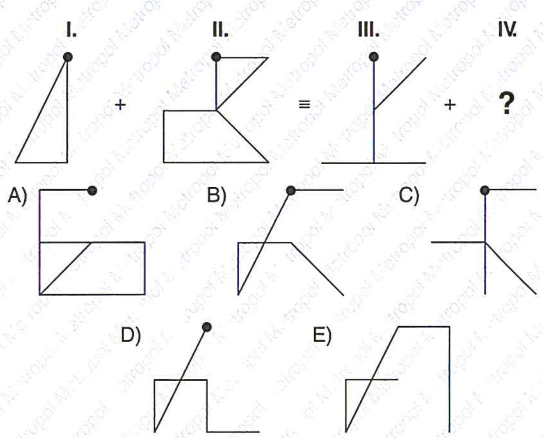
I, II ve III yukarıdaki tablonun farklı birer parçasıdır. Buna göre, ▲, ■ , ● ve ⬢ şekillerinin yerine aşağıdakilerden hangisi gelmelidir?

I, II and III are three different parts of the table above. Which of the following do ▲, ■ , ● and ⬢ stand for?

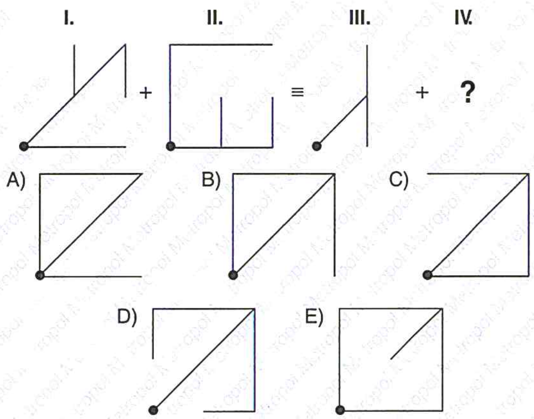
A) K; N; L; T B) L; R; K; N C) M; N; T; L

D) K; N; M; L E) K; N; T; L

7.



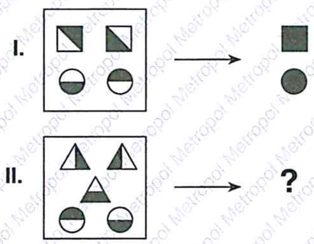
8.

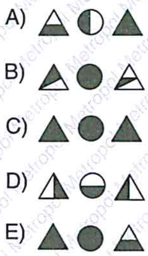


YANITLAR / ANSWERS

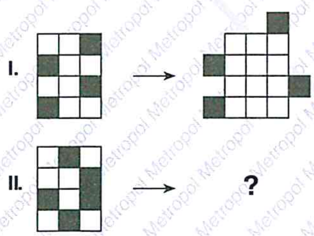
1	2	3	4	5	6	7	8
D	B	C	C	A	E	B	E

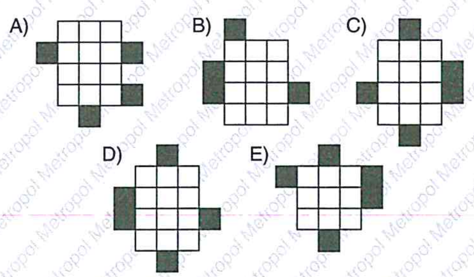
1.



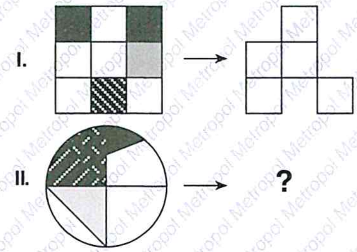


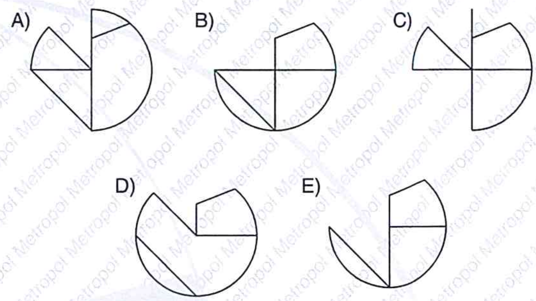
2.



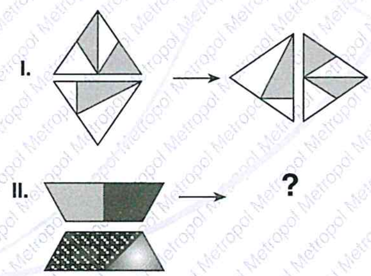


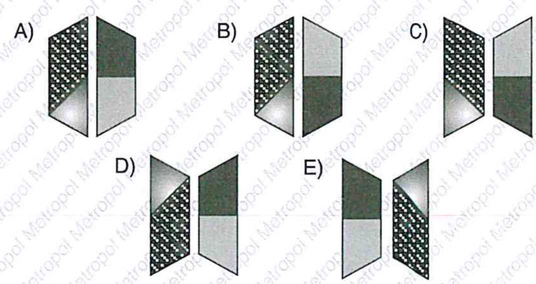
3.



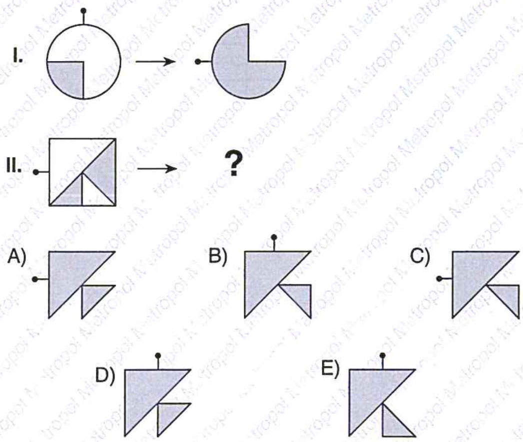


4.

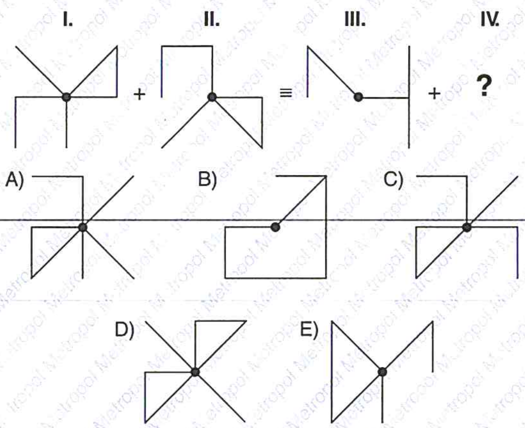




5.



6.



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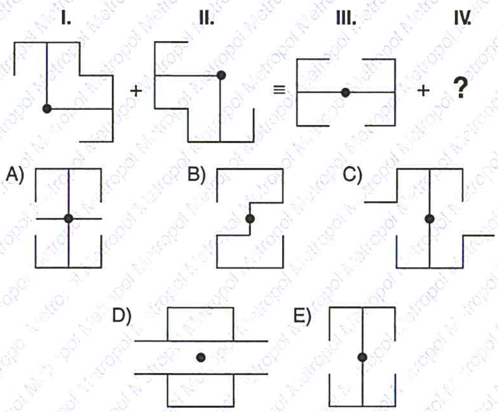

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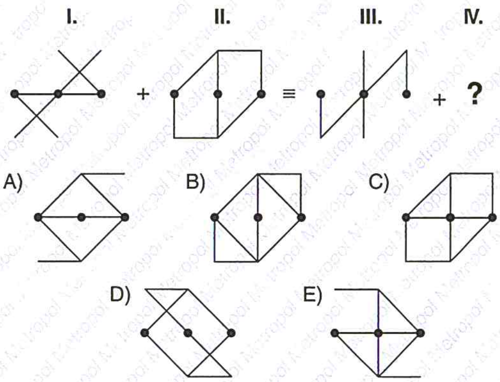
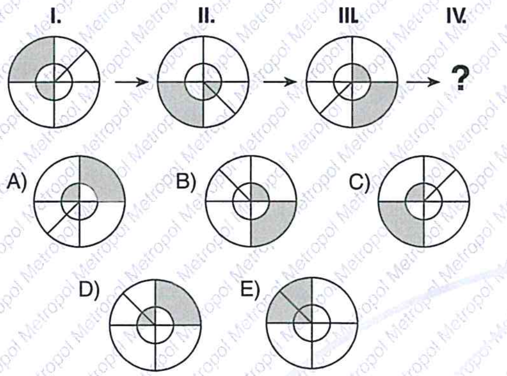


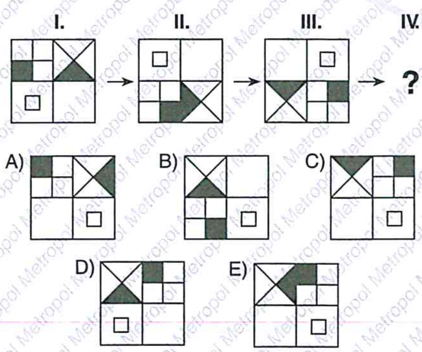
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	C	E	D	B	A	E	A

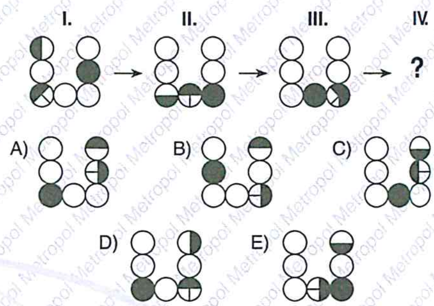
1.


I.
II.
III.
IV.
?
A)
B)
C)
D)
E)

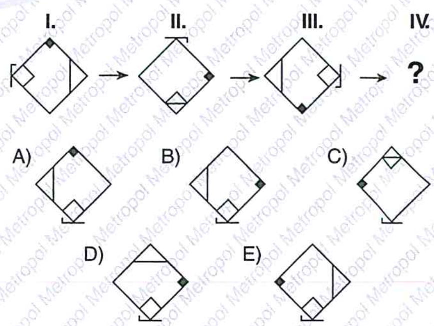
2.


I.
II.
III.
IV.
?
A)
B)
C)
D)
E)

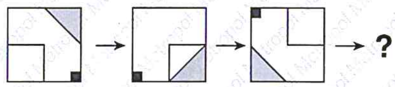
3.

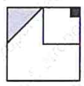
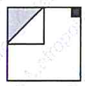
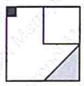

I.
II.
III.
IV.
?
A)
B)
C)
D)
E)

4.

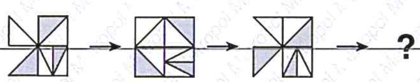

I.
II.
III.
IV.
?
A)
B)
C)
D)
E)

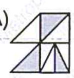
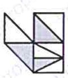
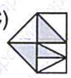
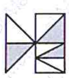
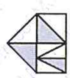
5. I. II. III. IV.



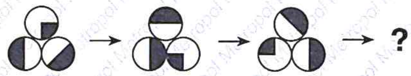
A) 
B) 
C) 
D) 
E) 

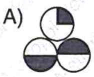
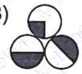
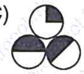
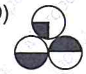
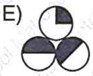
6. I. II. III. IV.



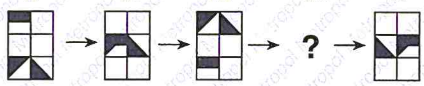
A) 
B) 
C) 
D) 
E) 

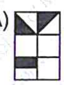
7. I. II. III. IV.



A) 
B) 
C) 
D) 
E) 

8. I. II. III. IV. V.



A) 
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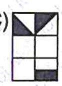
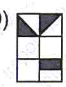
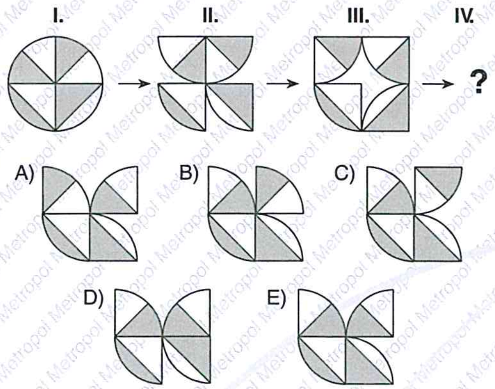
C) 
D) 
E) 

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	E	A	C	B	C	A	D

1.


I.
II.
III.
IV.
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A)
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C)
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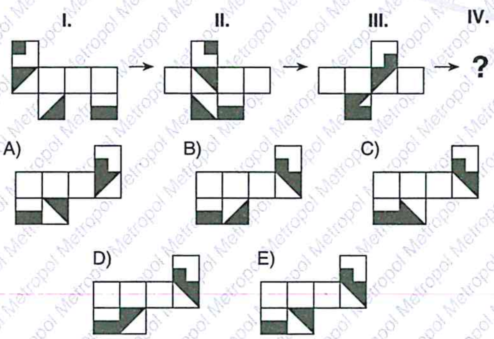
E)

2.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II.
III.
IV.
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A)
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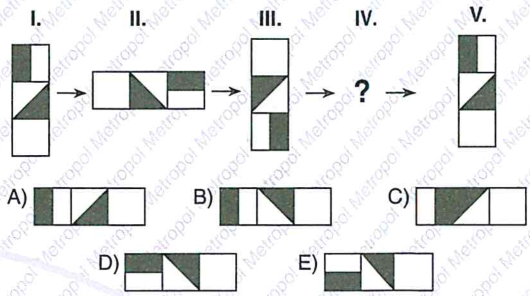
I.
II.
III.
IV.
V.
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A)
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D)
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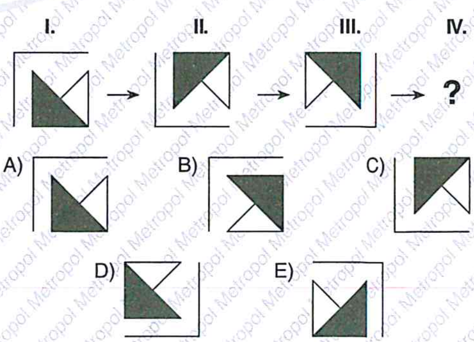
4.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II.
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IV.
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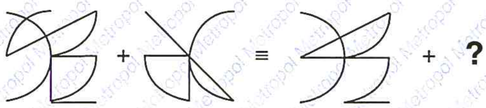
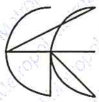
C)
D)
E)

5. I. II. III. IV.



A) 

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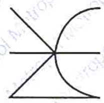
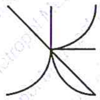
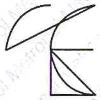
C) 

D) 

E) 

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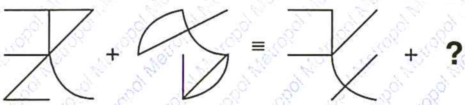
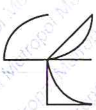
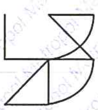
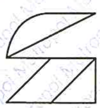
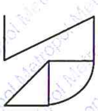


A) 

B) 

C) 

D) 

E) 

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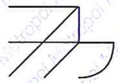
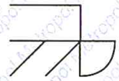
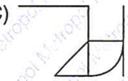
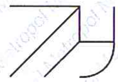
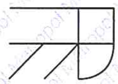
A) 

B) 

C) 

D) 

E) 

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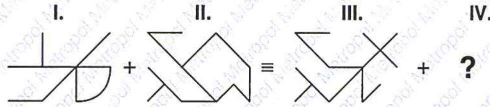
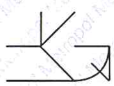
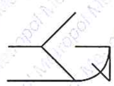
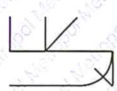
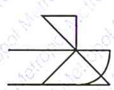
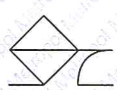


A) 

B) 

C) 

D) 

E) 

YANITLAR / ANSWERS

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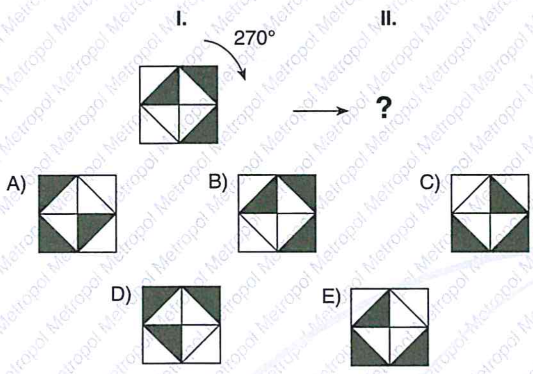
A	E	E	E	B	E	B	A

1.



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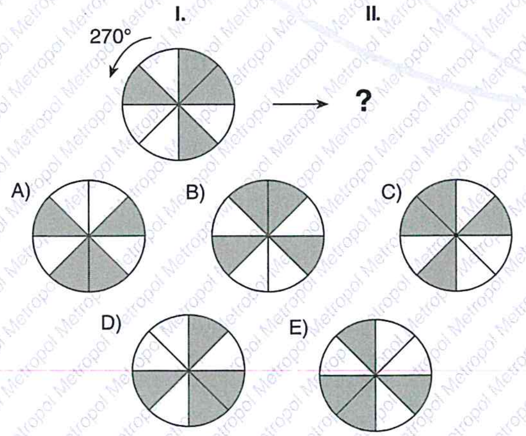

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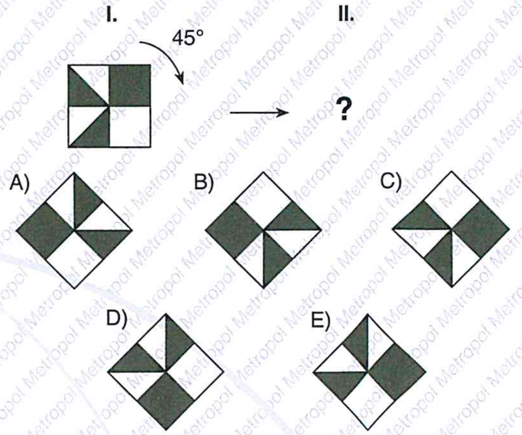

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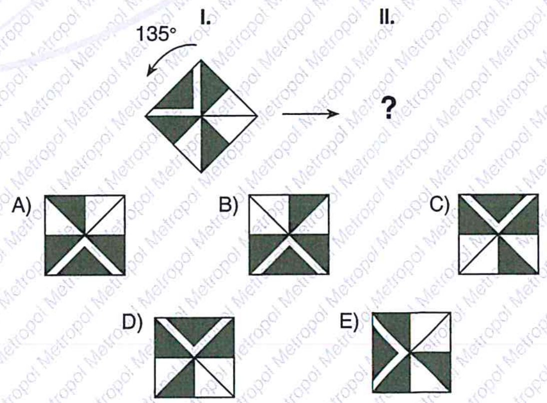

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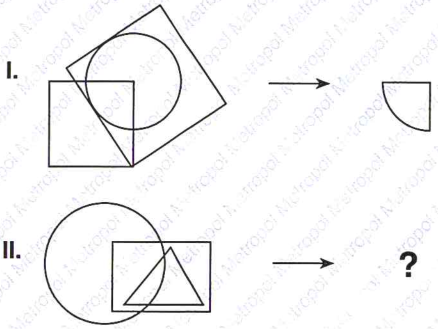
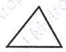


A) 

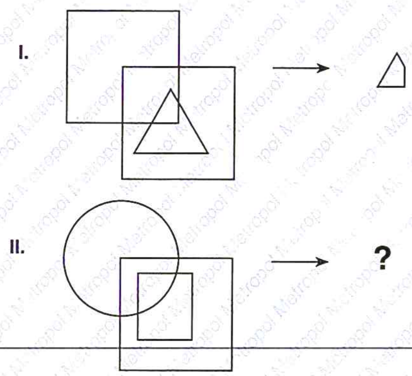
B) 

C) 

D) 

E) 

6.



A) 

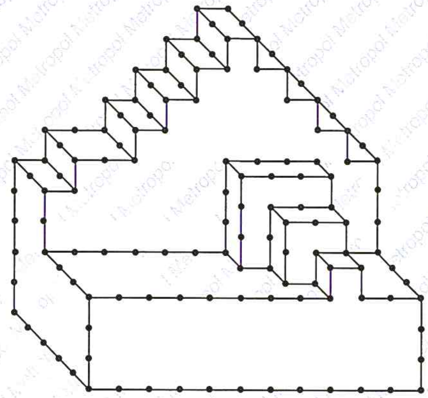
B) 

C) 

D) 

E) 

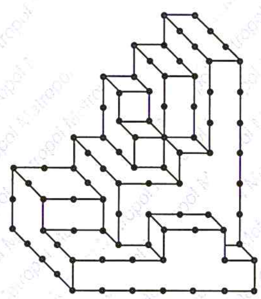
7.



≡  x ?

A) 274 B) 275 C) 276 D) 277 E) 278

8.



≡  x ?

A) 75 B) 76 C) 77 D) 78 E) 79

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	D	E	B	C	C	B	B

SAYI DİZİLERİ
NUMBER SERIES

1. 1, 1, 2, 3, **?**, 8, 13, 21

A) 4
B) 5
C) 6
D) 7
E) 8

2. 5, 14, 23, 32, **?**

A) 40
B) 41
C) 42
D) 43
E) 44

3. 10, 2, 21, 13, 32, **?**, 52

A) 43
B) 45
C) 47
D) 50
E) 51

4. 12, 19, 26, 33, **?**

A) 38
B) 39
C) 40
D) 41
E) 42

5. 3, 16, 29, 42, 55, **?**

A) 61
B) 63
C) 65
D) 68
E) 69

6. 4, 10, 22, 46, 94, **?**

A) 188
B) 190
C) 192
D) 194
E) 196

7. 17, 25, 32, 38, **?**, 47

A) 41
B) 42
C) 43
D) 44
E) 45

8. 5, 14, 41, 122, 365, **?**

A) 1091
B) 1092
C) 1093
D) 1094
E) 1095

9. 5, 12, 9, 16, 13, 20, 17, 24, **?**

A) 20
B) 21
C) 22
D) 23
E) 24

10. 13, 23, 20, 30, 27, **?**

A) 34
B) 35
C) 36
D) 37
E) 38

11. 7, 14, 10, 20, 16, 32, **?**

A) 18
B) 20
C) 22
D) 24
E) 28

12. 5, 10, 9, 14, 13, 18, 17, **?**

A) 20
B) 21
C) 22
D) 23
E) 24

13. 7, 14, 15, 30, 31, 62, **?**

A) 60
B) 62
C) 63
D) 64
E) 65

14. 5, 4, 12, 11, 33, 32, **?**

A) 88
B) 90
C) 92
D) 94
E) 96

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	B	E	C	D	B	C	D
9	10	11	12	13	14		
B	D	E	C	C	E		

1. 2, 7, ?, 8, 13, 10, 20

A) 1
B) 2
C) 3
D) 4
E) 5

2. 4, 9, 7, 14, 19, ?, 34

A) 14
B) 15
C) 17
D) 18
E) 19

3. 8, 4, 12, 18, 9, 27, ?

A) 28
B) 29
C) 30
D) 32
E) 33

4. 16, 4, 18, 12, ?, 17, 11

A) 3
B) 4
C) 5
D) 6
E) 7

5. 32, ?, 24, 14, 7, 15, 5

A) 15
B) 16
C) 17
D) 18
E) 20

6. ?, 16, 26, 24, 8, 18, 16

A) 46
B) 47
C) 48
D) 49
E) 50

7. 7, 15, 22, ?, 33, 37, 40, 42

A) 26
B) 28
C) 30
D) 31
E) 32

8. 82, 70, 60, 52, 46, ?, 40

A) 38
B) 39
C) 40
D) 42
E) 44

9. 84, **?**, 51, 36, 22, 9

A) 62
B) 64
C) 65
D) 66
E) 67

10. 1, **?**, 16, 22, 27, 31, 34, 36, 37

A) 9
B) 10
C) 11
D) 12
E) 13

11. 4, 6, 10, **?**, 24, 34, 46, 60

A) 15
B) 16
C) 18
D) 19
E) 20

12. 56, 46, 38, **?**, 28, 26

A) 30
B) 32
C) 33
D) 34
E) 35

13. 14, 28, **?**, 53, 64, 74, 83, 91, 98

A) 38
B) 40
C) 41
D) 42
E) 44

14. 8, 19, 31, 44, 58, **?**, 89

A) 72
B) 73
C) 74
D) 75
E) 76

15. 108, 86, **?**, 48, 32, 18, 6

A) 62
B) 64
C) 65
D) 66
E) 67

16. 72, 70, 66, 58, 42, **?**

A) 6
B) 7
C) 8
D) 9
E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	C	E	A	B	C	B	D
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**
E	A	B	B	C	B	D	E

1. 8, 16, 12, **?** , 36, 32, 38

A) 16
B) 17
C) 18
D) 19
E) 20

2. 4, **?**, 7, 16, 48, 43, 52

A) 12
B) 13
C) 14
D) 15
E) 16

3. 2, 9, 4, 8, 15, **?**, 20

A) 9
B) 10
C) 11
D) 12
E) 13

4. 1, 5, 0, 3, 15, 10, **?**, 65, 60, 63

A) 10
B) 11
C) 12
D) 13
E) 14

5. 13, 20, 16, 32, **?**, 35, 70, 77, 73

A) 35
B) 36
C) 37
D) 38
E) 39

6. 2, 4, 24, 12, 24, 144, **?**

A) 132
B) 133
C) 134
D) 135
E) 136

7. 29, 42, 34, **?**, 52, 44, 49

A) 36
B) 37
C) 38
D) 39
E) 40

8. 8, 13, 20, 29, **?**, 53, 68

A) 38
B) 39
C) 40
D) 41
E) 42

9. 3, 12, 24, 20, 29, **?**, 54, 63

A) 57
B) 58
C) 59
D) 60
E) 61

10. 2, 14, 21, 7, 19, 26, **?**

A) 10
B) 11
C) 12
D) 13
E) 14

11. 3, 9, 4, 16, 11, **?**, 116

A) 120
B) 121
C) 123
D) 124
E) 125

12. 9, 18, 27, 45, **?**, 117, 189

A) 70
B) 71
C) 72
D) 73
E) 74

13. 4, 20, 10, 13, 65, 55, **?**, 290, 280, 283

A) 52
B) 53
C) 54
D) 55
E) 58

14. 7, 13, 26, 31, **?**, 74, 79, 85

A) 36
B) 37
C) 38
D) 39
E) 40

15. 10, 3, 27, 30, **?**, 207, 210, 203

A) 20
B) 21
C) 22
D) 23
E) 24

16. 5, **?**, 7, 21, 30, 15, 45, 54, 27

A) 10
B) 11
C) 12
D) 13
E) 14

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	A	B	D	E	A	D	C
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**
B	C	B	C	E	B	D	E

1. 5, **?**, 17, 34, 41, 82, 89
   A) 8
   B) 9
   C) 10
   D) 11
   E) 12

2. 3, 8, 19, 42, 89, **?**
   A) 168
   B) 176
   C) 180
   D) 184
   E) 190

3. 1, 4, **?**, 7, 5, 10, 7, 13, 9
   A) 2
   B) 3
   C) 4
   D) 7
   E) 9

4. 13, 18, 8, **?**, 3, 28, –2, 33, –7, 38
   A) 20
   B) 21
   C) 22
   D) 23
   E) 24

5. 4, **?**, 12, 22, 20, 14, 28, 6
   A) 18
   B) 20
   C) 25
   D) 30
   E) 35

6. 1, 2, 6, 17, 47, **?**
   A) 128
   B) 132
   C) 147
   D) 152
   E) 163

7. 10, 20, **?**, 31, 32, 42, 25, 17, 36
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   B) 14
   C) 41
   D) 13
   E) 30

8. 10, 13, 90, 772, **?**, 98874
   A) 987
   B) 1299
   C) 9619
   D) 9762
   E) 9890

9. 2, **?**, 5, 25, 20, 100, 95

A) 10
B) 11
C) 12
D) 13
E) 14

10. 3, 12, 15, **?**, 63, 252, 255

A) 50
B) 55
C) 60
D) 61
E) 62

11. 2, 35, 7, **?**, 12, 25, 17, 20, 22

A) 10
B) 15
C) 20
D) 25
E) 30

12. 2, 4, **?**, 18, 21, 42, **?**, 132, 135

A) 6, 44
B) 5, 44
C) 6, 43
D) 6, 47
E) 4, 44

13. 1, 9, **?**, 18, 11, 99, 92

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C) 4
D) 5
E) 6

14. 1, 2, 6, 24, **?**, 720

A) 110
B) 115
C) 120
D) 125
E) 130

15. 1, 1, 2, 4, 7, **?**, 16, 22, 29, 37

A) 8
B) 9
C) 10
D) 11
E) 12

16. 9, 36, 18, **?**, 36, 144, 72

A) 70
B) 71
C) 72
D) 73
E) 74

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	D	B	D	D	B	E	C
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**
A	C	E	A	A	C	D	C

1. 7, 20, 59, 176, 527, **?**

A) 1580
B) 1581
C) 1582
D) 1583
E) 1584

2. 10, 7, 12, 9, 14, 11, 16, **?**

A) 10
B) 11
C) 12
D) 13
E) 14

3. 0, –1, 2, 1, 4, 3, 6, 5, **?**

A) 2
B) 4
C) 6
D) 8
E) 10

4. 3, 4, 6, 9, **?**, 18, 24, 31

A) 13
B) 14
C) 15
D) 16
E) 17

5. 2, 40, 12, 30, 20, 22, 26, 16, **?**, **?**

A) 32, 12
B) 30, 14
C) 30, 10
D) 32, 14
E) 30, 12

6. 10, 12, 16, 24, 40, **?**

A) 72
B) 74
C) 76
D) 78
E) 80

7. 2, 5, 10, 18, 21, 26, **?**, 37, 42

A) 30
B) 31
C) 32
D) 33
E) 34

8. **?**, 4, 6, 5, 25, 27, 26, 676

A) 1
B) 2
C) 3
D) 4
E) 5

9. 8, **?**, 15, 21, 18, 54, 60, 57

A) 5
B) 6
C) 7
D) 8
E) 9

10. 5, 6, 8, 11, **?**, 20, 26, 33

A) 11
B) 13
C) 14
D) 15
E) 16

11. 2, 4, 12, 48, **?**, 288, 1152

A) 94
B) 95
C) 96
D) 97
E) 98

12. 4, 12, 5, 15, **?**, 24, 17, 51

A) 5
B) 6
C) 8
D) 9
E) 10

13. 17, 21, 27, **?**, 45, 57, 71, 87

A) 30
B) 32
C) 35
D) 70
E) 75

14. 5, 10, **?**, 30, 35, 70, 75

A) 15
B) 16
C) 18
D) 19
E) 20

15. 85, 80, **?**, 55, 35, 10

A) 65
B) 66
C) 68
D) 69
E) 70

16. 9, 22, **?**, 57, 79, 104, 132

A) 34 B) 35 C) 36
D) 37 E) 38

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	D	D	A	E	A	E	B
9	10	11	12	13	14	15	16
A	D	C	C	C	A	E	E

Aşağıdaki sorulardaki sayı dizilerinin her biri farklı birer kurala göre dizilmiştir. Bu dizilerin herbirinde kurala uymayan bir sayı vardır. Bu sayıları bulunuz.

Each of number series in the following questions are arranged according to a different rule. In each of these series there is a number which is not following the rule. Find that number.

1. 3 5 9 16 23 33

A) 5
B) 9
C) 16
D) 23
E) 33

2. 2 5 12 20 32 47

A) 5
B) 12
C) 20
D) 32
E) 47

3. 1 3 9 11 32 35 105

A) 9
B) 11
C) 32
D) 35
E) 105

4. 3 2 6 4 9 8 12

A) 12
B) 8
C) 9
D) 4
E) 6

5. 14, 4, 10, 5, 12, 6, 11, 7

A) 14
B) 10
C) 11
D) 7
E) 5

6. 3, 2, 5, 5, 9, 7, 15, 14, 23

A) 15
B) 7
C) 5
D) 3
E) 2

7. 7, 5, 6, 12, 9, 11, 22, 20, 21

A) 22
B) 20
C) 12
D) 11
E) 9

8. 10, 11, 13, 16, 18, 19, 22

A) 13
B) 16
C) 18
D) 19
E) 22

9. 3 4 8 17 33 59 94

A) 8
B) 17
C) 33
D) 59
E) 94

10. 9 10 14 21 32 44 60

A) 14
B) 21
C) 32
D) 44
E) 60

11. 2 5 7 12 19 32 50

A) 7
B) 12
C) 19
D) 32
E) 50

12. 11 41 33 28 515 922 642

A) 33
B) 28
C) 515
D) 922
E) 642

13. 13 32 51 25 45 36

A) 13
B) 32
C) 51
D) 25
E) 45

14. 1 6 12 17 24 30 38

A) 1
B) 6
C) 12
D) 17
E) 24

15. 11 13 17 19 23 25 33

A) 33
B) 25
C) 23
D) 19
E) 17

16. 1 4 6 11 18 29 42 59

A) 1
B) 4
C) 11
D) 29
E) 42

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
C	B	C	D	B	B	E	C
9	10	11	12	13	14	15	16
D	C	D	E	E	A	A	B

1. $\frac{1.}{1}$ $\frac{2.}{4}$ $\frac{3.}{7}$ $\frac{4.}{10}$ … $\frac{24.}{?}$

A) 58 B) 62 C) 68 D) 70 E) 72

2. $\frac{1.}{7}$ $\frac{2.}{11}$ $\frac{3.}{15}$ … $\frac{30.}{?}$

A) 102 B) 108 C) 116 D) 120 E) 123

3. $\frac{A(1)}{5}$ $\frac{A(2)}{11}$ $\frac{A(3)}{17}$ … $\frac{A(40)}{?}$

A) 239 B) 231 C) 224 D) 220 E) 218

4. $\frac{a_1}{3}$ $\frac{a_2}{10}$ $\frac{a_3}{17}$ … $\frac{a_n}{192}$ $\Rightarrow$ **n = ?**

A) 20 B) 22 C) 25 D) 27 E) 28

5. $\frac{x_1}{11}$ $\frac{x_2}{20}$ $\frac{x_3}{29}$ … $\frac{x_n}{101}$ $\Rightarrow$ **n = ?**

A) 9 B) 11 C) 13 D) 15 E) 17

6. $\frac{1.}{1}$ $\frac{2.}{12}$ $\frac{3.}{23}$ … $\frac{?}{144}$

A) 11 B) 13 C) 14 D) 15 E) 17

7. $\frac{1.}{3}$ $\frac{2.}{4}$ $\frac{3.}{6}$ $\frac{4.}{7}$ $\frac{5.}{9}$ … $\frac{39.}{?}$

A) 51 B) 54 C) 57 D) 60 E) 63

8. $\frac{S_1}{4}$ $\frac{S_2}{7}$ $\frac{S_3}{6}$ $\frac{S_4}{9}$ $\frac{S_5}{8}$ … $\frac{S_{40}}{?}$

A) 41 B) 43 C) 45 D) 47 E) 49

9. $\frac{x_1}{5}$ $\frac{x_2}{8}$ $\frac{x_3}{9}$ $\frac{x_4}{12}$ $\frac{x_5}{13}$ ... $\frac{x_{27}}{?}$

A) 53 B) 55 C) 57 D) 59 E) 61

10. $\frac{1.}{0}$ $\frac{2.}{5}$ $\frac{3.}{3}$ $\frac{4.}{8}$ $\frac{5.}{6}$ ... $\frac{?}{47}$

A) 30 B) 31 C) 32 D) 33 E) 34

11. $\frac{A_{(1)}}{3}$ $\frac{A_{(2)}}{10}$ $\frac{A_{(3)}}{24}$ $\frac{A_{(4)}}{45}$ ... $\frac{A_{(n)}}{1332}$

$\Rightarrow$ **n = ?**

A) 16 B) 17 C) 18 D) 19 E) 20

12. $\frac{a_1}{17}$ $\frac{a_2}{21}$ $\frac{a_3}{26}$ $\frac{a_4}{30}$ $\frac{a_5}{35}$ ... $\frac{a_n}{188}$ $\Rightarrow$ **n = ?**

A) 31 B) 33 C) 35 D) 37 E) 39

13. $\frac{1.}{1}$ $\frac{2.}{3}$ $\frac{3.}{7}$ $\frac{4.}{13}$ $\frac{5.}{21}$ ... $\frac{100.}{?}$

A) 9801 B) 9817 C) 9881 D) 9890 E) 9901

14. $\frac{a_1}{3}$ $\frac{a_2}{4}$ $\frac{a_3}{6}$ $\frac{a_4}{9}$ $\frac{a_5}{13}$ ... $\frac{a_{102}}{?}$

A) 5140 B) 5150 C) 5154 D) 5156 E) 5160

15. $\frac{1.}{1}$ $\frac{2.}{4}$ $\frac{3.}{10}$ $\frac{4.}{19}$ $\frac{5.}{31}$ ... $\frac{20.}{?}$

A) 569 B) 571 C) 574 D) 576 E) 580

16. $\frac{1.}{6}$ $\frac{2.}{11}$ $\frac{3.}{21}$ $\frac{4.}{36}$ $\frac{5.}{56}$ ... $\frac{25.}{?}$

A) 1497 B) 1501 C) 1504 D) 1506 E) 1510

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	E	A	E	B	C	D	C
9	**10**	**11**	**12**	**13**	**14**	**15**	**16**
C	A	E	E	E	C	B	D

Aşağıdaki sorularda, I. ve II. sayı dizileri ile III. ve IV. sayı dizileri arasında aynı sayısal ilişki bulunmaktadır. Buna göre, IV. sayı dizilerini bulunuz.

In the following questions, the numeral relation between number series I and II is the same as that of number series III and IV. Accordingly find the number series IV.

1.

I.	2	6	2	7
II.	5	15	11	16
III.	6	18	14	19
IV.	7	**?**	17	**?**

A) 20; 22
B) 21; 22
C) 23; 22
D) 20; 23
E) 21; 23

2.

I.	4	16	8	15
II.	2	4	2	9
III.	6	36	18	25
IV.	**?**	64	32	**?**

A) 8; 39
B) 8; 36
C) 7; 35
D) 7; 38
E) 8; 38

3.

I.	8	5	10	12
II.	13	10	20	22
III.	12	9	18	20
IV.	**?**	**?**	28	30

A) 13; 14
B) 14; 16
C) 17; 14
D) 14; 17
E) 13; 17

4.

I.	2	4	7	21
II.	3	6	9	27
III.	5	10	13	39
IV.	6	12	**?**	**?**

A) 16; 32
B) 15; 40
C) 16; 40
D) 15; 44
E) 15; 45

5.

I.	4	12	19	14
II.	5	15	22	17
III.	7	21	28	23
IV.	**?**	27	**?**	29

A) 9; 36
B) 8; 34
C) 8; 32
D) 9; 34
E) 34; 9

6.

I.	5	18	11	22
II.	4	17	10	20
III.	7	20	13	26
IV.	6	19	**?**	**?**

A) 10; 12
B) 12; 24
C) 12; 16
D) 14; 16
E) 12; 18

7.
I.	12	36	39	31
II.	10	30	33	25
III.	8	24	27	19
IV.	**?**	27	30	**?**

A) 8; 20
B) 8; 21
C) 8; 22
D) 9; 22
E) 9; 21

8.
I.	12	60	55	70
II.	15	75	70	85
III.	13	65	60	75
IV.	17	**?**	**?**	95

A) 85; 80
B) 80; 85
C) 80; 90
D) 85; 95
E) 75; 80

9.
I.	2	12	7	14
II.	3	18	13	26
III.	4	24	19	38
IV.	7	**?**	**?**	74

A) 40; 30
B) 42; 45
C) 37; 42
D) 42; 37
E) 47; 50

10.
I.	3	21	6	9
II.	4	28	13	16
III.	7	49	34	37
IV.	8	56	**?**	**?**

A) 41; 43
B) 41; 44
C) 40; 42
D) 40; 43
E) 41; 40

11.
I.	7	21	29	17
II.	8	24	32	20
III.	11	33	41	29
IV.	**?**	**?**	50	38

A) 14; 24
B) 14; 42
C) 42; 14
D) 14; 40
E) 14; 44

12.
I.	5	20	11	28
II.	8	32	23	40
III.	9	36	27	44
IV.	12	**?**	39	**?**

A) 48; 56
B) 56; 48
C) 46; 54
D) 52; 42
E) 44; 56

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	A	C	E	D	B	D	A	D	B	B	A

Aşağıdaki sorularda, I. ve II. sayı dizileri ile III. ve IV. sayı dizileri arasında aynı sayısal ilişki bulunmaktadır. Buna göre, IV. sayı dizilerini bulunuz.

In the following questions, the numeral relation between number series I and II is the same as that of number series III and IV. Accordingly find the number series IV.

1.

I.	2	5	10	13	26	29
II.	93	90	45	42	21	18
III.	1	6	24	29	116	121
IV.	?	?	?	?	?	?
A)	361	356	88	84	21	16
B)	361	356	89	85	21	16
C)	360	356	89	84	21	16
D)	361	356	89	84	21	16
E)	360	356	88	84	21	16

2.

I.	11	11	6	12	7	21
II.	3	9	4	16	11	55
III.	5	15	11	33	29	87
IV.	?	?	?	?	?	?
A)	4	12	16	48	84	156
B)	4	10	14	48	50	156
C)	4	12	16	72	78	156
D)	4	12	16	52	42	156
E)	2	10	6	30	26	130

3.

I.	1	1	2	3	5	8
II.	4	8	12	20	32	52
III.	7	14	21	35	56	91
IV.	?	?	?	?	?	?
A)	9	18	27	45	72	117
B)	11	20	33	55	88	143
C)	11	24	33	55	88	143
D)	13	24	36	60	96	156
E)	14	26	39	65	104	169

4.

I.	3	15	12	60	57	285
II.	2	12	8	48	44	264
III.	1	8	3	24	19	152
IV.	?	?	?	?	?	?
A)	2	18	12	108	102	918
B)	2	18	12	106	102	918
C)	2	18	12	108	104	916
D)	2	16	12	106	102	918
E)	2	18	12	108	102	916

5.

I.	14	22	16	24	18	26
II.	30	24	32	26	34	28
III.	17	26	21	30	25	34
IV.	?	?	?	?	?	?
A)	34	30	40	35	44	39
B)	36	31	40	35	40	39
C)	34	30	45	35	44	39
D)	36	31	40	35	44	39
E)	36	30	40	35	45	39

6.

I.	2	6	9	27	30	90
II.	4	8	10	20	22	44
III.	1	5	10	50	55	275
IV.	?	?	?	?	?	?
A)	3	12	16	34	69	272
B)	3	6	12	16	64	276
C)	3	12	16	64	68	272
D)	3	12	16	65	69	274
E)	3	12	16	64	68	270

7.

I.	4	16	13	52	49	196
II.	3	15	11	55	51	255
III.	2	12	4	24	16	96
IV.	?	?	?	?	?	?
A)	5	35	26	182	173	1211
B)	5	35	27	189	181	1267
C)	5	35	27	182	181	1211
D)	5	35	26	189	181	1267
E)	5	35	27	182	173	1211

8.

I.	9	18	10	20	12	24	16
II.	14	6	12	4	8	0	0
III.	3	9	5	15	11	33	29
IV.	?	?	?	?	?	?	?
A)	8	4	12	8	24	20	64
B)	8	4	12	8	24	20	60
C)	8	2	12	4	20	24	60
D)	8	4	12	4	24	20	64
E)	8	2	12	8	24	20	64

9.

I.	17	22	19	24	21	26
II.	34	37	32	35	30	33
III.	4	13	11	20	18	27
IV.	?	?	?	?	?	?
A)	20	24	15	16	7	9
B)	22	23	14	16	7	9
C)	21	23	14	16	7	9
D)	21	24	14	16	8	7
E)	21	23	12	14	7	9

10.

I.	4	28	23	161	156	1092
II.	5	25	18	90	83	415
III.	6	11	33	38	114	119
IV.	?	?	?	?	?	?
A)	7	10	50	53	265	268
B)	8	10	50	53	285	283
C)	7	10	50	54	280	286
D)	8	10	52	56	280	283
E)	7	10	50	53	280	283

11.

I.	5	10	15	25	40	65
II.	7	14	21	35	56	91
III.	2	4	6	10	16	26
IV.	?	?	?	?	?	?
A)	6	12	18	30	48	78
B)	4	8	12	20	32	52
C)	3	6	9	15	24	39
D)	1	2	3	5	8	13
E)	8	16	24	40	65	104

12.

I.	1	4	12	15	45	48
II.	3	6	18	21	63	66
III.	4	7	21	24	72	75
IV.	?	?	?	?	?	?
A)	5	8	24	27	81	84
B)	9	12	36	39	117	120
C)	6	9	27	30	90	93
D)	5	8	25	27	81	84
E)	6	12	27	30	90	93

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	A	A	D	C	A	B	C	A	B	C

Aşağıdaki sorularda, I. ve II. sayı dizileri ile III. ve IV. sayı dizileri arasında aynı sayısal ilişki bulunmaktadır. Buna göre, IV. sayı dizilerini bulunuz.

In the following questions, the numeral relation between number series I and II is the same as that of number series III and IV. Accordingly find the number series IV.

1.

I.	4	8	6	12	10
II.	10	8	16	14	28
III.	5	15	12	36	33
IV.	?	?	?	?	?
A)	12	9	27	24	72
B)	12	9	24	27	72
C)	12	8	24	26	72
D)	14	7	21	28	76
E)	12	8	24	27	72

2.

I.	10	20	22	44	46
II.	36	18	16	8	6
III.	4	8	10	20	22
IV.	?	?	?	?	?
A)	56	28	26	12	10
B)	55	28	26	13	11
C)	58	27	25	14	10
D)	56	28	26	13	11
E)	56	27	24	12	10

3.

I.	40	20	24	12	16
II.	10	20	16	32	28
III.	50	10	15	3	8
IV.	?	?	?	?	?
A)	8	45	30	180	175
B)	8	40	35	175	170
C)	7	40	35	175	170
D)	8	45	35	175	170
E)	9	40	35	170	175

4.

I.	8	9	11	14	18
II.	27	26	24	21	17
III.	4	8	16	32	64
IV.	?	?	?	?	?
A)	100	50	25	12,5	6
B)	70	30	15	7,5	3
C)	20	15	10	5,2	5
D)	40	20	10	7,5	5
E)	80	40	20	10	5

5.

I.	2	8	12	48	52
II.	64	16	12	3	–1
III.	5	25	30	150	155
IV.	?	?	?	?	?
A)	100	20	10	5	1
B)	50	25	12,5	10	70
C)	100	20	15	3	–2
D)	40	10	5	1	–5
E)	100	20	10	5	0

6.

I.	2	6	9	27	30
II.	6	24	28	112	116
III.	1	5	10	50	55
IV.	?	?	?	?	?
A)	2	6	18	96	114
B)	2	12	18	108	114
C)	2	10	15	50	55
D)	2	10	15	50	55
E)	2	12	18	102	114

7.

I.	9	18	21	42	45
II.	3	9	13	39	43
III.	4	16	21	84	89
IV.	**?**	**?**	**?**	**?**	**?**
A)	2	12	19	114	121
B)	2	12	20	114	120
C)	2	10	16	80	86
D)	4	12	16	114	121
E)	4	12	16	121	120

8.

I.	17	23	15	21	13
II.	30	22	28	20	26
III.	15	20	11	16	7
IV.	**?**	**?**	**?**	**?**	**?**
A)	20	11	17	26	30
B)	40	30	36	27	33
C)	40	31	36	27	33
D)	40	30	35	26	33
E)	40	31	36	27	32

9.

I.	20	28	14	22	11
II.	30	22	44	36	72
III.	30	40	10	20	5
IV.	**?**	**?**	**?**	**?**	**?**
A)	22	10	48	38	152
B)	22	12	46	38	152
C)	22	12	46	36	150
D)	22	12	46	36	152
E)	22	12	48	38	152

10.

I.	18	28	20	26	22
II.	50	40	48	42	46
III.	34	46	36	44	38
IV.	**?**	**?**	**?**	**?**	**?**
A)	24	12	22	10	20
B)	24	12	22	14	20
C)	24	12	20	14	20
D)	22	12	22	14	18
E)	24	12	20	14	18

11.

I.	2	8	9	36	37
II.	3	4	16	17	68
III.	8	40	41	205	206
IV.	**?**	**?**	**?**	**?**	**?**
A)	5	6	30	32	154
B)	4	5	20	21	84
C)	5	6	30	31	185
D)	5	6	30	31	155
E)	5	6	35	31	155

12.

I.	80	66	50	32	12
II.	10	30	48	64	78
III.	96	75	56	39	24
IV.	**?**	**?**	**?**	**?**	**?**
A)	16	32	56	73	88
B)	16	37	56	73	88
C)	18	39	58	78	84
D)	16	37	56	73	36
E)	16	31	48	67	88

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	D	B	E	C	B	C	E	E	B	D	E

Aşağıdaki sorularda, I. ve II. sayı dizileri ile III. ve IV. sayı dizileri arasında aynı sayısal ilişki bulunmaktadır. Buna göre, IV. sayı dizilerini bulunuz.

In the following questions, the numeral relation between number series I and II is the same as that of number series III and IV. Accordingly find the number series IV.

1.

I.	7	8	10	13	17	22
II.	42	41	39	36	32	27
III.	10	12	16	22	30	40
IV.	?	?	?	?	?	?
A)	42	41	39	36	32	27
B)	64	60	54	46	36	22
C)	40	38	36	34	32	30
D)	74	80	78	72	66	54
E)	80	78	74	68	60	50

2.

I.	52	54	51	53	50	52
II.	40	37	39	36	38	35
III.	32	37	36	41	40	45
IV.	?	?	?	?	?	?
A)	14	19	18	23	22	27
B)	31	30	35	34	39	40
C)	21	20	25	24	29	28
D)	40	41	36	37	32	31
E)	24	29	28	33	32	37

3.

I.	12	24	21	42	39	78
II.	3	9	5	15	11	33
III.	4	16	18	72	74	296
IV.	?	?	?	?	?	?
A)	1	4	20	23	115	118
B)	2	10	13	65	68	340
C)	3	15	15	60	63	232
D)	4	12	13	35	40	120
E)	6	30	33	24	48	52

4.

I.	3	7	14	18	36	40	80
II.	2	8	10	40	42	168	170
III.	6	8	8	10	10	12	12
IV.	?	?	?	?	?	?	?
A)	8	12	6	10	4	8	2
B)	8	14	10	16	12	18	14
C)	8	4	10	5	12	6	4
D)	8	12	24	28	56	60	120
E)	8	16	17	34	35	70	71

5.

I.	2	8	4	16	8	32	16
II.	24	48	12	24	6	12	3
III.	8	4	12	6	18	9	27
IV.	?	?	?	?	?	?	?
A)	6	4	8	12	6	2	8
B)	24	8	16	26	12	4	8
C)	24	8	12	8	4	12	6
D)	18	9	27	9	18	6	12
E)	54	18	36	12	24	8	16

6.

I.	2	4	12	14	42	44	132
II.	107	105	35	33	11	9	3
III.	3	6	10	20	24	48	52
IV.	?	?	?	?	?	?	?
A)	88	86	29	27	9	7	2
B)	88	86	21	18	4	2	1
C)	88	44	40	20	16	8	4
D)	88	90	30	32	16	18	6
E)	88	44	48	24	28	14	7

7.

I.	18	20	16	18	14	16	12
II.	18	22	20	24	22	26	24
III.	27	30	28	31	29	32	30
IV.	**?**	**?**	**?**	**?**	**?**	**?**	**?**
A)	27	24	26	23	25	22	24
B)	27	25	28	26	29	27	30
C)	27	29	26	28	25	27	24
D)	27	23	26	22	25	21	2
E)	27	31	29	33	31	25	33

8.

I.	5	8	6	9	7	10	8
II.	14	12	15	13	16	14	17
III.	16	12	14	10	12	8	10
IV.	**?**	**?**	**?**	**?**	**?**	**?**	**?**
A)	7	10	8	11	9	12	10
B)	9	7	10	8	11	9	12
C)	11	7	9	5	7	3	5
D)	13	15	11	13	9	11	7
E)	15	17	14	16	13	15	12

9.

I.	123	126	42	45	15	18	6
II.	279	93	90	30	27	9	6
III.	44	48	12	16	4	8	2
IV.	**?**	**?**	**?**	**?**	**?**	**?**	**?**
A)	274	720	180	176	44	40	10
B)	279	93	90	30	27	9	6
C)	528	132	128	32	28	7	3
D)	236	240	60	64	16	20	5
E)	210	70	66	22	18	6	2

10.

I.	5	10	7	12	9	14	11
II.	5	2	7	4	9	6	11
III.	27	9	18	6	12	4	8
IV.	**?**	**?**	**?**	**?**	**?**	**?**	**?**
A)	27	54	18	36	12	24	8
B)	27	1	18	28	12	16	8
C)	27	36	18	24	12	16	8
D)	27	30	15	18	9	12	4
E)	27	81	9	27	81	9	27

11.

I.	18	23	20	25	22	27
II.	19	14	17	12	15	10
III.	14	16	13	15	12	14
IV.	**?**	**?**	**?**	**?**	**?**	**?**
A)	5	9	6	10	7	11
B)	5	3	8	6	13	11
C)	5	4	8	7	11	10
D)	5	3	7	5	9	7
E)	5	3	6	4	7	5

12.

I.	96	24	48	12	24	6	12
II.	96	48	192	96	384	192	768
III.	8	24	26	78	80	240	242
IV.	**?**	**?**	**?**	**?**	**?**	**?**	**?**
A)	8	10	30	32	96	98	294
B)	8	16	19	38	41	82	85
C)	8	10	40	42	168	170	680
D)	8	16	20	40	44	88	92
E)	8	24	28	84	88	264	270

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	B	E	E	C	C	D	C	A	E	B

Aşağıdaki sayı dizilerinden hangisi diğerlerinden farklı bir kurala sahiptir?

Which of the following number series have a different rule?

1.
A) 3 5 10 12 24
B) 5 10 12 24 26
C) 1 3 6 8 16
D) 2 4 8 10 20
E) 4 6 12 14 28

2.
A) 3 5 8 12 17
B) 0 1 3 6 10
C) 4 7 11 16 22
D) 5 9 15 18 19
E) 2 12 23 35 48

3.
A) 10 9 11 10 12
B) 7 6 8 7 9
C) 9 8 10 9 11
D) 8 6 7 5 6
E) 15 14 16 15 17

4.
A) 3 6 7 14 15
B) 5 4 7 6 9
C) 4 4 6 6 8
D) 1 3 7 21 24
E) 2 10 12 60 62

5.
A) 10 5 7 14
B) 18 6 9 27
C) 24 4 10 60
D) 9 3 6 18
E) 14 9 14 42

6.
A) 0 1 5 30 121
B) 5 9 45 46 55
C) 8 12 13 113 117
D) 13 14 23 27 76
E) 6 15 18 22 47

7. A) 5 8 7 14 13
B) 6 10 8 24 22
C) 10 15 12 48 45
D) 7 8 7 11 30
E) 3 9 5 25 21

8. A) 11 13 17 25 32
B) 24 30 33 39 51
C) 19 29 40 44 52
D) 17 25 32 37 47
E) 51 54 59 61 64

9. A) 11 12 14 18 26
B) 21 23 29 47 75
C) 33 42 49 50 55
D) 36 54 74 102 102
E) 41 45 65 95 140

10. A) 2 5 11 20 32
B) 8 11 16 17 16
C) 1 3 7 13 21
D) 7 12 22 37 57
E) 11 12 14 17 21

11. A) 5 10 15 20 25
B) 3 6 9 12 15
C) 8 16 20 24 28
D) 4 8 12 16 20
E) 6 12 18 24 30

12. A) 3 4 7 11 17
B) 6 5 11 16 27
C) 5 4 9 13 22
D) 6 6 12 18 30
E) 9 7 16 23 39

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	D	D	B	E	E	D	E	C	B	C	A

Aşağıdaki verilen sayı dizilerinin üç tanesi aynı veya benzer kurala göre düzenlenmiştir. Bunlar hangileridir?
In the following questions, three of the given number series are ordered according to the same or similar rule. Find these number series.

1.

I.	6	9	18	21	42
II.	10	20	20	46	49
III.	5	8	16	19	38
IV.	9	12	24	27	54
V.	11	22	25	50	53

A) I, III, IV B) I, II, V C) II, III, IV D) III, IV, V E) I, IV, V

2.

I.	7	14	13	26	25
II.	10	9	13	12	16
III.	6	11	15	18	26
IV.	15	14	18	17	21
V.	20	19	23	22	26

A) II, III, IV B) II, IV, V C) I, IV, V D) I, II, III E) III, IV, V

3.

I.	8	10	12	14	16
II.	1	3	5	7	10
III.	4	6	8	10	12
IV.	2	4	5	7	10
V.	2	4	6	8	10

A) I, II, III B) II, III, IV C) II, IV, V D) I, III, V E) I, II, V

4.

I.	3	5	15	17	51
II.	5	6	12	13	26
III.	8	10	12	24	30
IV.	5	10	12	18	21
V.	1	4	16	19	76

A) I, II, III B) II, III, IV C) I, II, V D) III, IV, V E) I, III, V

5.

I.	30	15	5	7	9
II.	48	24	12	14	16
III.	42	14	7	10	13
IV.	40	20	10	12	14
V.	56	28	14	16	18

A) II, III, V B) I, II, V C) I, III, IV D) I, II, III E) II, IV, V

6.

I.	2	4	3	9	8
II.	3	5	9	12	15
III.	3	9	8	64	63
IV.	8	12	16	20	24
V.	1	1	0	0	–1

A) I, III, V B) I, II, III C) I, III, IV D) II, III, IV E) III, IV, V

7.

I.	8	6	7	14
II.	12	10	30	28
III.	11	8	10	40
IV.	5	2	9	21
V.	10	11	20	60

A) I, II, III B) I, III, IV C) II, III, V D) I, III, IV E) II, III, IV

8.

I.	2	3	5	8	13
II.	1	4	5	9	14
III.	3	6	7	9	17
IV.	1	5	8	10	12
V.	5	2	7	9	16

A) I, II, V B) II, III, V C) II, III, IV D) I, IV, V E) II, IV, V

9.

I.	13	22	26	62
II.	12	16	52	56
III.	15	14	17	16
IV.	31	32	36	72
V.	23	27	31	40

A) I, II, III B) I, III, V C) I, III, IV D) I, II, IV E) II, III, IV

10.

I.	13	23	33	34	17
II.	34	35	40	42	43
III.	10	2	30	40	14
IV.	23	33	34	44	18
V.	27	30	31	32	34

A) I, III, IV B) II, III, V C) I, II, III D) II, III, V E) I, III, V

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11.

I.	3	4	5	3	7	2
II.	6	9	7	8	10	12
III.	12	13	10	9	15	17
IV.	9	10	11	9	13	8
V.	15	16	17	15	19	14

A) I, II, III B) I, III, V C) II, III, IV D) I, IV, V E) II, III, IV

12.

I.	2	3	5	7	11
II.	31	37	41	43	47
III.	12	14	15	17	19
IV.	13	17	19	23	29
V.	13	15	19	21	23

A) II, III, IV B) I, II, III C) I, II, IV D) I, III, V E) II, III, V

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	D	C	E	A	D	A	D	A	D	C

1, 2 ve 3. sorularda verilen sayı sistemlerinden hangi üç tanesinin "aynı" kurala göre dizildiğini bulunuz.

In questions 1, 2 and 3, find the three number sequences with the "same" rule.

1.

I.	2	5	10	13	26
II.	6	9	27	30	90
III.	7	10	20	23	46
IV.	4	7	14	17	34
V.	5	10	13	26	29

A) I, II, III B) II, III, IV C) I, II, V D) I, III, IV E) I, III, V

2.

I.	4	5	7	10	14
II.	7	8	10	12	15
III.	15	16	18	21	25
IV.	19	20	22	26	30
V.	20	21	23	26	30

A) I, II, III B) II, IV, V C) I, III, V D) II, III, IV E) I, II, IV

3.

I.	2	4	5	25	24
II.	1	1	2	4	5
III.	3	6	7	14	15
IV.	3	9	10	100	101
V.	2	4	5	25	26

A) II, IV, V B) I, III, V C) I, IV, V D) III, IV, V E) II, III, IV

4, 5 ve 6. sorularda verilen sayı sistemlerinden hangi üç tanesinin "benzer" kurala göre dizildiğini bulunuz.

In questions 4, 5 and 6, find the three number sequences with the "similar" rule.

4.

I.	1	3	2	6	5
II.	4	8	9	18	19
III.	5	6	12	13	26
IV.	2	8	6	24	22
V.	3	6	5	10	9

A) I, IV, V B) I, II, III C) II, III, V D) I, III, V E) I, II, IV

5.

I.	12	11	15	14	18
II.	8	7	14	13	26
III.	2	6	5	15	14
IV.	5	3	9	7	21
V.	6	2	10	6	30

A) I, II, III B) II, IV, V C) I, III, V D) II, III, IV E) I, II, V

6.

I.	24	12	14	7	9
II.	4	8	10	20	22
III.	3	9	13	39	43
IV.	2	10	15	75	80
V.	6	6	7	7	8

A) I, II, IV B) II, III, IV C) I, IV, V D) III, IV, V E) II, IV, V

Aşağıda verilen sayı sistemleri arasında birbirini takip eden bir sıralama vardır. 7, 8 ve 9. sorularda bu sıralamayı doğru veren şıkkı bulunuz.

There is a sequential relation between rules of the following number systems, find the correct sequence in the questions 7, 8 and 9.

7.
I.	0	2	4	6	12
II.	1	5	20	24	96
III.	7	8	8	9	9
IV.	2	7	35	40	200
V.	5	8	24	27	81

A) I, II, III, IV, V
B) III, I, V, II, IV
C) III, II, V, IV, I
D) I, V, IV, II, III
E) II, I, IV, III, V

8.
I.	23	29	31	37
II.	2	3	5	7
III.	11	13	17	19
IV.	59	61	71	73
V.	41	43	47	53

A) II, III, I, V, IV
B) IV, V, I, III, II
C) II, III, IV, V, I
D) II, I, III, V, IV
E) II, I, III, IV, V

9.
I.	3	5	9	11	15
II.	10	14	20	24	30
III.	5	8	13	16	21
IV.	1	2	5	6	9
V.	7	12	19	24	31

A) V, IV, I, III, II
B) I, II, III, IV, V
C) IV, I, III, V, II
D) IV, I, III, II, V
E) IV, I, II, V, III

10, 11 ve 12. sorularda yer alan sayı dizilerinden bir tanesi farklı bir özellik taşır. Bu diziyi bulunuz.

In the number series of questions 10, 11 and 12, there is one with different property. Find that series.

10.
A) 6 3 12 6 24
B) 8 8 16 16 32
C) 30 10 60 20 120
D) 3 24 12 96 48
E) 20 5 40 10 80

11.
A) 1 2 2 4 8
B) 3 2 6 12 72
C) 2 4 8 32 256
D) 5 2 10 20 200
E) 6 12 72 144 288

12.
A) 3 5 10 8 4
B) 12 6 4 8 10
C) 2 5 15 12 4
D) –2 2 8 4 1
E) –2 3 15 10 2

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	A	A	B	E	B	A	D	D	E	B

1. 81, 70, 57, ?, 25, 6
A) 40
B) 42
C) 43
D) 44
E) 45

2. 82, 73, 64, ?, 46, 37, 28, 19
A) 50
B) 52
C) 53
D) 54
E) 55

3. 7, 14, 6, ?, 4, 8, 0
A) 10
B) 11
C) 12
D) 13
E) 14

4. 1, ?, 8, 48, 384, 3840
A) 2
B) 3
C) 4
D) 5
E) 6

5, 6 ve 7. sorularda sayı dizisindeki bir sayı kuralı bozmaktadır. Bu sayıyı bulunuz.
There is one number which departs from the rule of the number sequence. Find that number.

5. 14, 19, 30, 44, 64, 89, 119
A) 19
B) 30
C) 44
D) 64
E) 89

6. 87, 76, 66, 57, 49, 42, 35, 31, 27
A) 31
B) 35
C) 42
D) 49
E) 57

7. 2, 6, 12, 20, 30, 42, 56, 74
A) 74
B) 56
C) 42
D) 30
E) 20

8. 17, 26, 34, 41, 47, ?, 56, 59, 61, 62
A) 48
B) 50
C) 52
D) 53
E) 54

9. $\frac{a_1}{3}$ $\frac{a_2}{13}$ $\frac{a_3}{23}$ ... $\frac{a_{40}}{?}$

A) 387 B) 391 C) 393 D) 397 E) 401

10. $\frac{A_1}{1}$ $\frac{A_2}{5}$ $\frac{A_3}{9}$ ... $\frac{A_{52}}{?}$

A) 197 B) 199 C) 201 D) 203 E) 205

11. $\frac{x_1}{7}$ $\frac{x_2}{10}$ $\frac{x_3}{13}$ ... $\frac{x_n}{154} \Rightarrow n = ?$

A) 48 B) 49 C) 50 D) 51 E) 52

12.

I.	8	2	10	30
II.	12	3	11	33
III.	4	1	9	27
IV.	16	?	?	36

A) 4; 12
B) 12; 4
C) 4; 16
D) 12; 16
E) 4; 14

13.

I.	7	21	12	36
II.	5	19	10	30
III.	9	23	14	42
IV.	?	27	?	54

A) 16; 18
B) 18; 12
C) 13; 18
D) 15; 18
E) 13; 16

14.

I.	2	18	5	10
II.	4	36	23	46
III.	8	72	59	118
IV.	6	54	?	?

A) 81; 42
B) 80; 41
C) 41; 80
D) 41; 82
E) 81; 40

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YANITLAR / ANSWERS

1	2	3	4	5	6	7
B	E	C	A	B	B	A
8	**9**	**10**	**11**	**12**	**13**	**14**
C	C	E	C	A	C	D

1. 2, 2, 4, 12, 48, **?**
A) 60
B) 72
C) 192
D) 240
E) 256

2. 112, 108, 27, 24, **?**, 6, 3
A) 8
B) 10
C) 15
D) 20
E) 26

3. 3, 6, 15, 42, 123, **?**
A) 243
B) 246
C) 355
D) 369
E) 366

4. 7, 14, 12, 36, 33, 132, 128, **?**
A) 133
B) 256
C) 384
D) 152
E) 640

5. 23, 28, 35, 44, 55, 68, **?**
A) 80
B) 82
C) 83
D) 84
E) 85

6. 10, 11, 21, 13, 32, **?**, 43, 62
A) 15
B) 34
C) 41
D) 53
E) 63

7. 20, 11, 21, 13, 22, 51, 23, 17, **?**
A) 23
B) 33
C) 42
D) 54
E) 6

8. 13, **?**, 30, 27, 81, 78, 234
A) 8
B) 9
C) 10
D) 11
E) 12

9.

I.	II.
71	86
62	95
53	104
44	113
?	?

A) 35, 123

B) 35, 125

C) 36, 121

D) 35, 122

E) 36, 122

10. 3, 3, 4, 8, 6, ?, 21, 84, 80

A) 15

B) 16

C) 17

D) 18

E) 1

11.

I.	2	4	8	16	20	40
II.	6	10	20	24	48	52
III.	1	6	12	17	34	39
IV.	?	?	?	?	?	?
A)	5	13	78	86	516	524
B)	5	10	20	25	50	55
C)	4	8	13	26	31	62
D)	4	12	72	83	514	524
E)	5	10	15	30	35	40

12.

I.	13	22	19	28	25	34
II.	20	28	24	32	28	36
III.	10	22	17	29	24	36
IV.	?	?	?	?	?	?
A)	17	27	22	33	27	38
B)	17	28	22	33	27	38
C)	17	28	23	33	27	38
D)	17	28	22	32	27	38
E)	17	28	22	33	28	38

13.

I.	37	42	39	44	41
II.	6	30	27	135	132
III.	75	79	71	75	67
IV.	?	?	?	?	?
A)	8	30	24	96	88
B)	8	32	24	94	86
C)	8	32	24	94	89
D)	8	32	24	96	88
E)	8	30	24	94	86

14.

I.	4	16	21	84	89
II.	3	15	19	95	99
III.	1	7	10	70	73
IV.	?	?	?	?	?
A)	3	27	34	102	109
B)	2	14	17	51	54
C)	9	27	34	102	109
D)	9	27	36	102	109
E)	9	18	34	102	109

YANITLAR / ANSWERS

1	2	3	4	5	6	7
D	A	E	E	C	A	C
8	**9**	**10**	**11**	**12**	**13**	**14**
C	D	D	C	B	D	C

İŞLEMLER
OPERATIONS

1. I. a ▲ b = a + 2·b
   II. 4 ▲ 3 = ?

   A) 7
   B) 8
   C) 9
   D) 10
   E) 11

2. I. a ● b = $\frac{a+b}{2}$
   II. 14 ● 24 = ?

   A) 18
   B) 19
   C) 20
   D) 21
   E) 22

3. I. a ☆ b = $a^2 - b^2$
   II. 7 ☆ 5 = ?

   A) 24
   B) 26
   C) 28
   D) 30
   E) 32

4. I. a ▼ b = 3·a + b
   II. a ● b = $a + b^2$
   III. (4 ▼ 3) + (5 ● 2) = ?

   A) 21
   B) 22
   C) 23
   D) 24
   E) 25

5. I. a ☆ b = $\frac{a+b}{3}$
   II. a ■ b = 2·(a + b)
   III. (8 ■ 7) – (9 ☆ 6) = ?

   A) 17
   B) 19
   C) 21
   D) 23
   E) 25

6. I. a ❤ b = $a + b^2$
   II. a ● b = a – b
   III. (24 ● 15) + (3 ❤ 4) = ?

   A) 26
   B) 27
   C) 28
   D) 29
   E) 30

7. **I.** a ❢ b = $a^2 - b$

II. a ❂ b = a^b

III. (3 ❂ 4) ÷ (4 ❢ 7) = ?

A) 9
B) 12
C) 15
D) 18
E) 21

8. **I.** a ✍ b = a + 4·b

II. a ✌ b = $a^2 - b$

III. (3 ✍ 4) + (6 ✌ 2) = ?

A) 51
B) 52
C) 53
D) 54
E) 55

9. **I.** a ✻ b = $a^3 + b$

II. a ✿ b = a + b + 1

III. (3 ✻ 13) – (6 ✿ 7) = ?

A) 23
B) 24
C) 25
D) 26
E) 27

10. **I.** a ➾ b = $\frac{a}{b} + 1$

II. a ♣ b = $\frac{b}{a} - 1$

III. (3 ♣ 18) · (12 ➾ 4) = ?

A) 10
B) 15
C) 20
D) 24
E) 28

11. **I.** a ❁ b = a + b – 1

II. a ❥ b = a – b + 1

III. (18 ❥ 9) + (9 ❁ 12) = ?

A) 27
B) 28
C) 29
D) 30
E) 31

12. **I.** a ✐ b = $\frac{a}{b} + 2$

II. a ✍ b = a + 3·b

III. (11 ✍ 3) – (20 ✐ 5) = ?

A) 13
B) 14
C) 15
D) 16
E) 17

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	B	A	D	E	C	A	C	D	C	D	B

1. **I.** a ● b = $\frac{1}{a} + \frac{1}{b}$
   II. a ▲ b = $a \cdot b$
   III. (4 ● 3) ▲ 24 = ?

   A) 6
   B) 8
   C) 10
   D) 12
   E) 14

2. **I.** a ❤ b = $a + b - 1$
   II. a ● b = $a - b + 2$
   III. (21 ● 13) + (12 ❤ 9) = ?

   A) 27
   B) 28
   C) 29
   D) 30
   E) 31

3. **I.** a ✿ b = $\frac{a+b}{2}$
   II. a ✪ b = $\frac{a+b}{3}$
   III. (12 ✿ 16) – (9 ✪ 6) = ?

   A) 7
   B) 8
   C) 9
   D) 10
   E) 11

4. **I.** a ❃ b = $a^3 + b$
   II. a ❄ b = $a + b^3$
   III. (2 ❄ 4) + (3 ❃ 5) = ?

   A) 96
   B) 98
   C) 100
   D) 102
   E) 104

5. **I.** a ▮ b = $3 \cdot a - b$
   II. a ✪ b = $a + 2 \cdot b$
   III. (14 ▮ 3) + (7 ✪ 11) = ?

   A) 72
   B) 70
   C) 68
   D) 66
   E) 64

6. **I.** a ✎ b = $a^a + b^b$
   II. a ⊸ b = $a^b + b^a$
   III. (2 ✎ 1) ⊸ (1 ⊸ 2) = ?

   A) 106
   B) 206
   C) 268
   D) 368
   E) 868

7. **I.** a ☎ b = $a^2 + b$

II. a ❢ b = b^a

III. **(1 ☎ 3) ❢ (2 ❢ 2) = ?**

A) 16

B) 32

C) 64

D) 128

E) 256

8. **I.** a ✹ b = 3·a + b

II. a ✔ b = b – 2·a

III. **(2 ✹ 4) ✔ (12 ✹ 9) = ?**

A) 20

B) 25

C) 30

D) 35

E) 40

9. **I.** a ♣ b = $a + b^2$

II. a ✏ b = $b^3 - a$

III. **(5 ✏ 3) ♣ (4 ♣ 1) = ?**

A) 44

B) 45

C) 46

D) 47

E) 48

10. **I.** a ✝ b = $a^b + 1$

II. a ❦ b = $a^a - b$

III. **(3 ❦ 24) ❦ (2 ✝ 4) = ?**

A) 8

B) 10

C) 12

D) 14

E) 16

11. **I.** a ● b = $\frac{a}{b} + 1$

II. a ✪ b = a + b – 1

III. a ■ b = a^b

III. **(4 ■ 2) ✪ (24 ● 8) = ?**

A) 8

B) 13

C) 16

D) 19

E) 23

12. **I.** a ❤ b = $\frac{2 \cdot a + b}{2}$

II. a ➔ b = 3·(a + b)

III. **(8 ❤ 4) ➔ (3 ➔ 4) = ?**

A) 84

B) 87

C) 90

D) 93

E) 96

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	D	C	B	C	D	E	B	D	B	D	D

1. **I.** a ✾ b = a·b + a

II. a ✳ b = a·b + b

III. a ■ b = a·b − (a + b)

IV. **(1 ✾ 3) ✳ (4 ■ 6) = ?**

A) 50
B) 60
C) 70
D) 85
E) 95

2. **I.** a ⬟ b = 2·a + b − 1

II. a ◈ b = 2·b − a − 1

III. a ⌘ b = 3·a − 2·b + 1

IV. **(5 ⬟ 4) ⌘ (6 ◈ 3) = ?**

A) 39
B) 40
C) 41
D) 42
E) 43

3. **I.** a ⧈ b = $a^2 - b$

II. a ◈ b = $b^2 - a$

III. a ✱ b = a + b

IV. **(4 ⧈ 12) ◈ (16 ✱ −10) = ?**

A) 36
B) 34
C) 32
D) 28
E) 26

4. **I.** a ▼ b = a^{-b}

II. a ❑ b = b^{a+b}

III. a ▲ b = $(2a)^{b+a}$

IV. **$\left(\frac{1}{2}\,\blacktriangledown\,3\right)$ ❑ $(-5\,\blacktriangle\,6)$ = ?**

A) −10
B) 100
C) $\frac{1}{10}$
D) $\frac{1}{100}$
E) $-\frac{1}{100}$

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5. **I.** a ❂ b = $b^3 - 2a$

II. a ■ b = $\dfrac{2 \cdot a + 3 \cdot b}{2}$

III. a ∆ b = b − a − 1

IV. **(3 ❂ 2) ∆ (3 ■ 4) = ?**

A) 2
B) 5
C) 6
D) 7
E) 9

6. **I.** a ∆ b = $\dfrac{1}{a} - \dfrac{1}{b}$

II. a ❍ b = 2·a + 3·b

III. a ▲ b = a·b − 4

IV. **$\left(\frac{1}{6}\,\Delta\,\frac{1}{4}\right)$ ❍ $(2\,\blacktriangle\,3)$ = ?**

A) 10
B) 8
C) 6
D) 5
E) 4

7. I. $a \blacklozenge b = 2 \cdot a + \frac{1}{3 \cdot b}$

II. $a \square b = b - \frac{1}{2a}$

III. $a \triangle b = (a+b)^{-1}$

IV. $\left(4 \blacklozenge \frac{1}{6}\right) \square \left(\frac{1}{3} \triangle \frac{1}{2}\right) = ?$

A) $\frac{3}{2}$

B) $\frac{47}{60}$

C) 0

D) 1

E) $\frac{23}{20}$

8. I. $a \blacklozenge b = 3 \cdot a - 6 \cdot b$

II. $a \triangle b = 2 \cdot b^2 - a$

III. $a \heartsuit b = \frac{a^2 - b}{2}$

IV. $(12 \blacklozenge 4) \triangle (3 \heartsuit 1) = ?$

A) 42

B) 37

C) 30

D) 25

E) 20

9. I. $a \square b = \frac{2 \cdot b - a}{3}$

II. $a \maltese b = \frac{4 \cdot a + b + 1}{4}$

III. $a \star b = 3 \cdot a + 4 \cdot b - 7$

IV. $(12 \star -6) \maltese (7 \square 2) = ?$

A) 6

B) 5

C) 4

D) 3

E) 2

10. I. $a \circledast b = \frac{a}{b} - a$

II. $a \triangle b = \frac{a \cdot b}{a+b}$

III. $a \bigcirc b = 2 \cdot a + b$

IV. $(4 \triangle 8) \circledast \left(\frac{1}{4} \bigcirc 2\right) = ?$

A) $\frac{25}{4}$

B) $-\frac{8}{5}$

C) $-\frac{23}{5}$

D) $\frac{22}{7}$

E) $-\frac{21}{8}$

11. I. $a \blacklozenge b = 4 \cdot a + 5 \cdot b$

II. $a \ast b = 7 \cdot a + 2 \cdot b$

III. $a \circledast b = 2 \cdot a - (a \cdot b)$

IV. $[(1 \ast 2) \circledast 3] \blacklozenge 6 = ?$

A) –17

B) –16

C) –15

D) –14

E) –13

12. I. $a \square b = \frac{a^2}{b}$

II. $a \bullet b = a^2 + b - 1$

III. $a \blacktriangledown b = a \cdot b - b$

IV. $8 \square [5 \blacktriangledown (1 \bullet 4)] = ?$

A) 6

B) 5

C) 4

D) 3

E) 2

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	D	C	D	C	A	E	E	B	B	D	C

1. **I.** $3 \cdot a \triangle 2 \cdot b = b - a$

II. $a \blacksquare 5 \cdot b = \dfrac{a}{b}$

III. $\mathbf{(15 \triangle 12) + (8 \blacksquare 20) = ?}$

A) 1
B) 2
C) 3
D) 4
E) 5

2. **I.** $2 \cdot b \triangle a = b + 2 \cdot a$

II. $a \blacksquare 3 \cdot b = \dfrac{2a}{b}$

III. $\mathbf{(8 \triangle 6) - (6 \blacksquare 12) = ?}$

A) 12
B) 13
C) 14
D) 15
E) 16

3. **I.** $5 \cdot a \ast 2 \cdot b^2 = a \cdot b - 1$

II. $4 \cdot a \bullet 7 \cdot b = a + b$

III. $\mathbf{(10 \ast 8) + (16 \bullet 21) = ?}$

A) 5
B) 7
C) 10
D) 12
E) 15

4. **I.** $a^3 \star b = b^2 - a$

II. $a \circledcirc 5 \cdot b = a^2 + b$

III. $\mathbf{(27 \star 3) - (4 \circledcirc 25) = ?}$

A) –15
B) –10
C) –5
D) 5
E) 10

5. **I.** $2 \cdot a \circledast b = a + 4 \cdot b - 2$

II. $a \curlywedge 3 \cdot b = a \cdot b + 4$

III. $\mathbf{(16 \circledast 2) + (2 \curlywedge 9) = ?}$

A) 19
B) 20
C) 22
D) 23
E) 24

6. **I.** $7 \cdot a \blacktriangledown 4 \cdot b = a + b$

II. $4 \cdot a \blacktriangle 9 \cdot b = \dfrac{a - b}{2}$

III. $\mathbf{(42 \blacktriangledown 32) - (48 \blacktriangle 36) = ?}$

A) 6
B) 8
C) 9
D) 10
E) 11

7. **I.** $3 \cdot a \bigstar b^3 = 5 \cdot a - 2 \cdot b$

II. $a^4 ✹ 4 \cdot b = 4 \cdot a + b$

III. $(18 \bigstar 216) + (16 ✹ 4) = ?$

A) 26
B) 27
C) 28
D) 29
E) 30

8. **I.** $a^3 \blacksquare b^5 = 2 \cdot a + b$

II. $a^4 \square b^2 = 2 \cdot a - b$

III. $(64 \blacksquare 1) - (81 \square 16) = ?$

A) 2
B) 4
C) 7
D) 9
E) 11

9. **I.** $7 \cdot a \blacklozenge 2 \cdot b = a^2 - b^2$

II. $a^3 \bigcirc 4 \cdot b = 2 \cdot a^2 + 3 \cdot b$

III. $2(64 \bigcirc 44) + 3(28 \blacklozenge 8) = ?$

A) 100
B) 110
C) 120
D) 130
E) 140

10. **I.** $\frac{a}{5} \blacksquare \frac{b}{4} = 7 \cdot a - b$

II. $\frac{4 \cdot a}{5} \Delta \frac{3 \cdot b}{4} = 3 \cdot a + 2 \cdot b - 4$

III. $(2 \blacksquare 20) + (20 \Delta 27) = ?$

A) 130
B) 131
C) 132
D) 133
E) 134

11. **I.** $a ♥ b^3 = 2 \cdot a^2 + b$

II. $a^3 ✚ b = 2 \cdot b^2 - a$

III. $a^4 ✹ b^2 = 2 \cdot b + a$

IV. $(256 ✹ 16) + (27 ✚ 2) + (3 ♥ 64) = ?$

A) 33
B) 35
C) 37
D) 39
E) 41

12. **I.** $3 \cdot a \bigstar 2 \cdot b = a + b + 1$

II. $5 \cdot a \Delta b^2 = 2 \cdot a^2 - b + 1$

III. $a^5 \otimes \frac{b}{8} = a + \frac{2 \cdot b}{3} + 1$

IV. $(25 \Delta 25) + (27 \bigstar 6) - (32 \otimes 3) = ?$

A) 38
B) 39
C) 40
D) 41
E) 42

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	C	A	E	D	B	C	D	D	D	C

1. **I.** $6 \cdot a \bullet 8 \cdot b = \frac{a \cdot b}{3}$

II. $2 \cdot a \blacktriangle b = (a + b) \cdot 2$

III. $4 \cdot a \star 2 \cdot b = \frac{a}{2} + b$

IV. $(16 \blacktriangle 10) \bullet (32 \star 8) = ?$

A) 1
B) 2
C) 3
D) 4
E) 5

2. **I.** a^2 ✐ $b^2 = 3 \cdot a + 4 \cdot b$

II. $\frac{a}{2} \ast \frac{b}{3} = a^2 + b$

III. $2 \cdot a \blacktriangle 4 \cdot b = a + 3 \cdot b$

IV. $(64$ ✐ $100) \blacktriangle (2 \ast 8) = ?$

A) 58
B) 60
C) 62
D) 64
E) 66

3. **I.** $4 \cdot a \bullet 6 \cdot b = \frac{a + b}{2}$

II. $12 \cdot a \blacksquare 9 \cdot b = \frac{a - b}{3}$

III. $2 \cdot a \ast 3 \cdot b = a + b + 1$

IV. $(24 \bullet 12) \ast (120 \blacksquare 9) = ?$

A) 3
B) 4
C) 5
D) 6
E) 7

4. **I.** $4 \cdot a \triangleleft 3 \cdot b = a^2 + 2 \cdot b$

II. $a^3 \checkmark 2 \cdot b = a + b^2$

III. $2 \cdot a \circledast 5 \cdot b = a - b + 5$

III. $(64 \checkmark 8) \circledast (12 \triangleleft 9) = ?$

A) 9
B) 10
C) 11
D) 12
E) 13

5. **I.** $\sqrt{2} \cdot a \star 2 \cdot b = a + b^2$

II. $\frac{a}{2} \bullet 3 \cdot b = 3 \cdot a + \frac{b}{2}$

III. $(a - 1) \blacktriangle (b + 3) = 2 \cdot a + b - 2$

IV. $(8 \bullet 24) \blacktriangle (10 \star 10) = ?$

A) 173
B) 174
C) 175
D) 176
E) 177

6. **I.** $3 \cdot a \triangle (b - 2) = (a + 1) \cdot b$

II. $2 \cdot a^3 \bullet (b - 1) = a + 2 \cdot b$

III. $3a^4 \star (b + 3) = a^2 + b$

IV. $(45 \triangle 1) \star (54 \bullet 5) = ?$

A) 8
B) 10
C) 12
D) 14
E) 16

7. **I.** $3a^3 \blacksquare 2 \cdot b^2 = 2 \cdot a + 3 \cdot b$

II. $4 \cdot a \blacktriangle 3 \cdot b = a^3 + b^4$

III. $(a + 2) \bullet (b - 3) = a \cdot b$

IV. $\mathbf{(24 \blacksquare 18) \bullet (4 \blacktriangle 6) = ?}$

A) 220
B) 210
C) 200
D) 190
E) 180

8. **I.** $5 \cdot a \blacksquare \frac{b}{2} = a^2 + 2 \cdot b$

II. $a^2 \blacktriangle 2 \cdot b = 4 \cdot a + 3 \cdot b$

III. $a^3 \bullet b^2 = \frac{a}{3} + \frac{b}{5}$

IV. $\mathbf{(9 \blacktriangle 10) \bullet (15 \blacksquare 4) = ?}$

A) 1
B) 2
C) 3
D) 4
E) 5

9. **I.** $3 \cdot a^2$ ✐ $(b + 3) = (a + 3) \cdot b$

II. $(a + 4)$ ✿ $b^3 = a^2 + b$

III. $(a - 2)$ ✺ $(b - 1) = 2 \cdot a + 3 \cdot b$

IV. (9 ✿ 64) ✺ (75 ✐ 7) = ?

A) 161
B) 162
C) 163
D) 164
E) 165

10. **I.** $2 \cdot a \star 7 \cdot b = (a + 2) \cdot (b + 1)$

II. $\frac{3 \cdot a}{2} \bullet \frac{5 \cdot b}{4} = (a - 3) \cdot (b - 2)$

III. $a^3 \blacksquare b^5 = a + b + 2$

IV. $\mathbf{(343 \blacksquare 243) \star (12 \bullet 20) = ?}$

A) 70
B) 76
C) 82
D) 88
E) 94

11. **I.** $(a^2 + 1) \bullet (b^3 - 1) = 2 \cdot (a + b)$

II. $\left(\frac{a}{3}\right) \ast \left(\frac{b}{4}\right) = 2 \cdot a - 3 \cdot b$

III. $2 \cdot a \blacktriangle 4 \cdot b = a^2 - b^3$

IV. $\mathbf{(10 \bullet 26) \blacktriangle (8 \ast 3) = ?}$

A) 3
B) 6
C) 9
D) 12
E) 15

12. **I.** $\left(\frac{2 \cdot a}{3}\right) \odot \left(\frac{3 \cdot b}{2}\right) = \frac{a + b}{4}$

II. $\frac{24}{a} \blacksquare \frac{18}{b} = (a + b) \cdot 3$

III. $\frac{(a + 4)}{2} \bullet \frac{(b - 8)}{4} = 2 \cdot a - b$

IV. $\mathbf{(8 \bullet 3) \odot (8 \blacksquare 3) = ?}$

A) 6
B) 7
C) 8
D) 9
E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	B	D	D	E	A	B	A	D	C	A

1. I. $\frac{(a \Delta b)-1}{2} = 3 \cdot a - 2 \cdot b$

II. $4 \Delta 2 = ?$

A) 13
B) 14
C) 15
D) 16
E) 17

2. I. $\frac{2}{3(a \blacksquare b)^2} = \frac{4}{2 \cdot a + 3 \cdot b}$

II. $3 \blacksquare 6 = ?$

A) 6
B) 5
C) 4
D) 3
E) 2

3. I. $\frac{3}{\frac{2(a \bigcirc b)}{3}} = \frac{3 \cdot a + 5 \cdot b}{3}$

II. $2 \bigcirc 3 = ?$

A) $\frac{5}{7}$
B) $\frac{9}{7}$
C) $\frac{2}{3}$
D) $\frac{9}{19}$
E) $\frac{9}{14}$

4. I. $\frac{\frac{5}{6}}{a \star b} = \frac{5}{b - a + 3}$

II. $6 \star 9 = ?$

A) 1
B) 2
C) 3
D) 4
E) 5

5. I. $\frac{1}{1 + \frac{1}{2(a \blacktriangle b)}} = 2 + \frac{1}{a^2 - b^2}$

II. $3 \blacktriangle 2 = ?$

A) $-\frac{11}{12}$
B) $-\frac{13}{12}$
C) $\frac{11}{12}$
D) $\frac{7}{6}$
E) $-\frac{7}{6}$

6. I. $\frac{3}{3 + (a \bigcirc b)} = \frac{3}{3 \cdot a + b}$

II. $3 \bigcirc 3 = ?$

A) 8
B) 9
C) 10
D) 11
E) 12

7. I. $\dfrac{7}{2(a\square b)-1}=\dfrac{1}{a-2\cdot b+4}$

II. $1\square 2=?$

A) 1
B) 2
C) 3
D) 4
E) 5

8. I. $b-\dfrac{a}{2\cdot b(a\Delta b)}=\dfrac{3}{2\cdot a+b}$

II. $1\Delta 2=?$

A) 5
B) 4
C) 0
D) $\frac{1}{5}$
E) $\frac{1}{4}$

9. $1-\dfrac{3}{\frac{a\odot b}{2}}=\dfrac{1}{a-4\cdot b}\Rightarrow$ **$6\odot 1=?$**

A) 15
B) 12
C) 9
D) $\frac{1}{15}$
E) $\frac{1}{12}$

10. $\dfrac{7}{\frac{2}{(a\blacklozenge b)-2}}=\dfrac{\frac{(a+b)^2}{2}}{a^3+b}\Rightarrow$ **$2\blacklozenge 1=?$**

A) 3
B) $\frac{5}{3}$
C) $\frac{5}{2}$
D) $\frac{15}{7}$
E) $\frac{15}{8}$

11. $\dfrac{1+\frac{2}{a※b}}{1-\frac{2}{a※b}}=2\cdot a-b\Rightarrow$ **$3※3=?$**

A) 8
B) 6
C) 4
D) 2
E) 0

12. $\dfrac{2+\frac{(a*b)}{2}}{(a*b)+2}=\dfrac{2\cdot a}{3\cdot a+b}\Rightarrow$ **$1*3=?$**

A) –4
B) –5
C) –6
D) –7
E) –8

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	E	E	A	A	B	D	D	B	D	C	E

1. $(a \circledast b) + 2 \cdot a = 3 \cdot (a \circledast b) + b$

$\Rightarrow$ **$4 \circledast 10 = ?$**

A) 2 B) 1 C) 0 D) – 1 E) – 2

2. $3 \cdot (a \square b) - 2 \cdot a = (a \square b) + 3 \cdot b$

$\Rightarrow$ **$2 \square 4 = ?$**

A) 4 B) 6 C) 8 D) 10 E) 12

3. $\dfrac{(a \clubsuit b)}{2} = \dfrac{(a \clubsuit b)}{3} + \dfrac{a}{2} + b$

$\Rightarrow$ **$6 \clubsuit 3 = ?$**

A) 24 B) 28 C) 30 D) 32 E) 36

4. $a \blacksquare b = b \blacksquare a$

$(a \blacksquare b) \cdot 2 - a = [(b \blacksquare a) + 2] \cdot 3 + b$

$\Rightarrow$ **$1 \blacksquare 3 = ?$**

A) – 10 B) – 8 C) $-\frac{7}{2}$ D) $\frac{7}{2}$ E) 6

5. $a \bullet b = b \bullet a$

$3 \cdot (a \bullet b) - (b \bullet a) = a \bullet b + b + a$

$\Rightarrow$ **$(-2) \bullet 4 = ?$**

A) – 2 B) – 1 C) 0 D) 1 E) 2

6. $a \bigstar b = b \bigstar a$

$\dfrac{a \bigstar b + 2 \cdot (b \bigstar a)}{a \bigstar b} - a = (b \bigstar a) \cdot 2 + b$

$\Rightarrow$ **$(-6) \bigstar 3 = ?$**

A) 2 B) 3 C) 6 D) 7 E) 10

7. a ✿ b – 2·(b ✿ a) = a + 2·b

⇒ **2 ✿ 4 = ?**

A) $-\frac{25}{3}$ B) $-\frac{26}{3}$ C) – 9 D) $-\frac{28}{3}$ E) $-\frac{29}{3}$

8. a ✻ b = a·(b ✻ a) + b

⇒ **3 ✻ 1 = ?**

A) $-\frac{3}{4}$ B) – 1 C) –5 D) $-\frac{3}{2}$ E) –2

9. b ▲ a = 2·(a ▲ b) + 15

⇒ **11 ▲ 13 = ?**

A) – 20 B) –30 C) –15 D) 25 E) 30

10. a ★ b = b ★ a

a ▲ b = 2(b ★ a)

a ■ b = (a ▲ b) + (a ★ b)

⇒ $\dfrac{\mathbf{a \blacksquare b}}{\mathbf{b \bigstar a}}$ **= ?**

A) 1 B) 2 C) 3 D) 4 E) 5

11. a △ b = 2(b △ a) + a + b

a ❆ b = (b △ a) + 2

⇒ **2 ❆ 4 = ?**

A) –4 B) –2 C) 0 D) 2 E) 4

12. a □ b = 2·(b □ a) + 2·a·b

3 □ 1 = ?

A) –6 B) –4 C) 0 D) 4 E) 6

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	E	A	E	B	B	C	C	C	A	A

1. **I.** $(x, y) \star (z, t) = (x \cdot z, t - y)$

II. $(2, 4) \star (4, 9) = ?$

A) (8, 5)
B) (8, 3)
C) (7, 5)
D) (7, 3)
E) (5, 8)

2. **I.** $(x, y) \bullet (z, t) = (x^{z-1}, y^{t+1})$

II. $(4, 3) \bullet (5, 3) = ?$

A) $(4^3, 3^4)$
B) $(4^4, 3^3)$
C) $(2^8, 9^2)$
D) $(2^8, 9^3)$
E) $(4^2, 9^2)$

3. **I.** $(x, y) \bigcirc (z, t) = (x^z, y + t)$

II. $(1, 3) \bigcirc (8, 4) = ?$

A) (–1, 7)
B) (8, 7)
C) (1, –7)
D) (1, 7)
E) (–8, 7)

4. **I.** $(a, b) \blacksquare (c, d) = (c - a, b - d)$

II. $(2^{-2}, 2^3) \blacksquare (2^{-1}, 2^2) = ?$

A) $\left(-\frac{1}{4}, 4\right)$
B) $\left(\frac{1}{4}, 4\right)$
C) $\left(\frac{1}{4}, -4\right)$
D) $\left(\frac{1}{4}, 2\right)$
E) $\left(2, \frac{1}{4}\right)$

5. **I.** $(a, b) \Delta (x, y) = ((2 \cdot a - 2)^x, (b + 1)^y)$

II. $(9, 26) \Delta (2^{-1}, 3^{-1}) = ?$

A) (4, 2)
B) (3, 4)
C) (–4, 2)
D) (3, 2)
E) (4, 3)

6. **I.** $(2x + 1, y^x) \bigcirc (z - 2, t + 1) = (x \cdot z, y \cdot t)$

II. $(5, 9) \bigcirc (1, 4) = ?$

A) (6, 9)
B) (3, 9)
C) (9, 6)
D) (6, 3)
E) (9, 3)

7. **I.** $(x + 1, y + 1) \bullet (x^z, y^t) = (2 \cdot x + z, t + 2 \cdot y)$

II. $(4, 3) \bullet (81, 64) = ?$

A) (6, 4)
B) (10, 6)
C) (10, 10)
D) (4, 10)
E) (9, 6)

8. **I.** $(x + y, x - y) \triangleright (z + x, t - y) = (x^2 \cdot t, z \cdot y)$

II. $(5, 3) \triangleright (6, 2) = ?$

A) (16, 2)
B) (16, 8)
C) (48, 8)
D) (48, 6)
E) (48, 2)

9. **I.** $(2 \cdot x, 3 \cdot y) \blacktriangleright (z^3, 4 \cdot t) = (x + t, y + 2 \cdot z)$

II. $(16, 27) \blacktriangleright (8, 4) = ?$

A) (9, 13)
B) (8, 13)
C) (9, 12)
D) (7, 12)
E) (7, 13)

10. **I.** $(2x + 1, y - 2) \triangleleft (z \cdot x, t + y) = \left(\frac{x+y}{z}, \frac{z+t}{y}\right)$

II. $(11, 8) \triangleleft (35, 24) = ?$

A) $\left(\frac{7}{15}, \frac{21}{10}\right)$
B) $\left(\frac{15}{7}, \frac{21}{10}\right)$
C) $\left(\frac{13}{7}, \frac{10}{21}\right)$
D) $\left(\frac{13}{7}, \frac{8}{21}\right)$
E) $\left(\frac{15}{7}, 2\right)$

11. **I.** $(a \cdot b, a \cdot c) \square (b \cdot c, b \cdot d) = (a + c, b + d)$

II. $(12, 6) \square (18, 24) = ?$

A) (1, 2)
B) (10, 2)
C) (5, 4)
D) (5, 8)
E) (5, 10)

12. **I.** $(x^a, y^b) \blacksquare (a, b) = (x \cdot a, y \cdot b)$

II. $(32, 81) \blacksquare (5, 4) = ?$

A) (2, 5)
B) (9, 20)
C) (12, 10)
D) (10, 13)
E) (10, 12)

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1	2	3	4	5	6	7	8	9	10	11	12
A	C	D	B	E	A	C	E	A	B	E	E

1. I. $x \circledast y = \begin{cases} x+y, & x \cdot y < 0 \\ x-y, & \frac{x}{y} > 0 \end{cases}$

II. $[-1 \circledast 2] \circledast 3 = ?$

A) –5
B) –2
C) 1
D) 3
E) 4

2. I. $a \square b = \begin{cases} 2 \cdot a - b, & a < b \\ b - 2 \cdot a, & b < a \end{cases}$

II. $[-6 \square -9] \square 4 = ?$

A) 0
B) 1
C) 2
D) 3
E) 4

3. I. $x \Delta y = \begin{cases} 2 \cdot x + 3 \cdot y, & x - y < 0 \\ 3 \cdot x - 2 \cdot y, & x - y \geq 0 \end{cases}$

II. $(5 \Delta 2) \Delta (3 \Delta 4) = ?$

A) 45
B) 50
C) 56
D) 60
E) 76

4. I. $x \blacklozenge y = \begin{cases} x \cdot y + x, & x < 0 < y \\ y \cdot x + y, & x < y \leq 0 \end{cases}$

II. $(-2 \blacklozenge 3) + (-1 \blacklozenge 0) = ?$

A) –10
B) –8
C) 0
D) 10
E) 8

5. I. $x \heartsuit y = \begin{cases} x^2 + 3 \cdot y, & x < y \\ y^2 + 2 \cdot x, & x > y \end{cases}$

II. $(-1 \heartsuit -2) \heartsuit (1 \heartsuit 2) = ?$

A) 21
B) 2
C) 8
D) 25
E) 7

6. I. $x \Delta y = \begin{cases} 2 \cdot x - y, & x + y > 2 \\ 3 \cdot y + 2 \cdot x, & x + y \leq 2 \end{cases}$

II. $\left(\frac{1}{2} \Delta 4\right) \Delta 2 = ?$

A) 4
B) 5
C) 0
D) –4
E) –5

7. **I.** $a \Delta b = \begin{cases} a \cdot b, & a+b \geq 1 \\ \frac{b}{a}, & a+b < 0 \end{cases}$

II. $[2 \Delta -8] - [-4 \Delta 5] = ?$

A) 36
B) 30
C) 24
D) 20
E) 16

8. **I.** $a \Delta b = \begin{cases} a+3, & a > b \\ b-3, & a \leq b \end{cases}$

II. $(24 \Delta 3) = ?$

A) 0
B) 6
C) 21
D) 24
E) 27

9. **I.** $a \square b = \begin{cases} 2 \cdot a^2 - b, & a \cdot b > 1 \\ a+b, & a = b \\ a^2 - 2 \cdot b, & a \cdot b < 0 \end{cases}$

II. $(1 \square 2) \square (-4 \square 8] = ?$

A) –2
B) –1
C) 0
D) 1
E) 2

10. **I.** $x \blacktriangledown y = \begin{cases} x^{x \cdot y} + y, & x < y \\ y^{x \cdot y} + x, & x = y \\ y - x, & x < 15 < y \end{cases}$

II. $(1 \blacktriangledown 2) \blacktriangledown (2 \blacktriangledown 2] = ?$

A) 11
B) 12
C) 14
D) 15
E) 21

11. **I.** $a \square b = \begin{cases} a^2 + b, & a > b \\ b^2 - a, & a < b \end{cases}$

II. $(2 \square -4) \square 9 = 3^x \Rightarrow$ **x = ?**

A) 4
B) 3
C) 2
D) 1
E) 0

12. **I.** $a \bigcirc b = \begin{cases} 3 \cdot a - 2 \cdot b, & a \cdot b > 0 \\ 4 \cdot a + b, & a \cdot b < 0 \end{cases}$

II. $(-1 \bigcirc -2) \bigcirc -2 = 2^x \Rightarrow$ **x = ?**

A) –1
B) 0
C) 1
D) 2
E) 3

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1	2	3	4	5	6	7	8	9	10	11	12
B	C	E	B	D	C	E	E	C	D	A	C

1. $a^3 \star 6b = \begin{cases} a + b - a \cdot b & , a > b \\ a^2 + b^2 - 2ab & , a \leq b \end{cases}$

$(27 \star 12) \cdot (1 \star 6) = ?$

A) 0
B) 2
C) 4
D) 6
E) 8

2. $a \blacksquare b = \begin{cases} a^3 - b^3 & , a > b \\ \dfrac{a + b}{2} & , a = b \\ a^3 - b^2 & , a < b \end{cases}$

$(5 \blacksquare 3) + (4 \blacksquare 4) + (4 \blacksquare 8) = ?$

A) 98
B) 100
C) 102
D) 104
E) 106

3. $a \triangle b = \begin{cases} a^3 - 3a^2b + 3ab^2 & , a \cdot b > 0 \\ a^3 + b & , a \cdot b < 0 \\ \dfrac{2b}{5} & , a \cdot b = 0 \end{cases}$

$(-2 \triangle 8) \triangle (5 \triangle 2) = ?$

A) 22
B) 20
C) 18
D) 16
E) 14

4. $x^3 \star y^2 = \begin{cases} 2x + 5y & , x < 0 \\ y^3 & , x + y > 0 \end{cases}$

$(-27 \star 36) \star 16 = ?$

A) 62
B) 64
C) 66
D) 68
E) 70

5. $x \blacktriangle y = \begin{cases} 2x + 3y + 4xy & , x - y > 0 \\ x \cdot y + y & , x - y < 0 \end{cases}$

$(2 \blacktriangle 1) : (4 \blacktriangle 9) = ?$

A) $\frac{15}{36}$
B) $\frac{14}{36}$
C) $\frac{13}{33}$
D) $\frac{13}{26}$
E) $\frac{1}{3}$

6. $x \star y \begin{cases} x^{x+y} + y^x & , x < y \\ \dfrac{x + y}{2} & , x < 20 < y \end{cases}$

$(2 \star 3) + (15 \star 25) = ?$

A) 61
B) 63
C) 65
D) 67
E) 69

7. I. $a \blacksquare b = \begin{cases} a^2 - b^2 , & a > b \\ 2a + 3b , & a < b \end{cases}$

II. **$(3 \blacksquare 2) + (4 \blacksquare 5) = ?$**

A) 3

B) 6

C) 20

D) 26

E) 28

8. I. $m \triangle n = \begin{cases} m + n , & m > n \\ m - n , & m = n \\ m \cdot n , & m < n \end{cases}$

II. **$(2 \triangle 1) \triangle (1 \triangle 3) = ?$**

A) 0

B) 2

C) 4

D) 6

E) 8

9. I. $x \star y = \begin{cases} x^2 - 2xy + y^2 , & x - y < 0 \\ x^3 - 3x^2y + 3xy^2 - y^3 , & x - y \geq 0 \end{cases}$

II. **$[(1 \star 2) \star (4 \star 9)] \cdot [(3 \star 4) \star (6 \star 5)] = ?$**

A) 4

B) 3

C) 2

D) 1

E) 0

10. I. $a \blacktriangle b = \begin{cases} b^2 , & a \cdot b > 0 \\ a^2 , & a \cdot b < 0 \end{cases}$

II. **$(5 \blacktriangle -1) \blacktriangle (3 \blacktriangle 1) = ?$**

A) 25

B) 1

C) 9

D) 16

E) 0

11. I. $x \blacksquare y = \begin{cases} x^y + 2 , & x > y \\ y^x - 2 , & x \leq y \end{cases}$

II. **$(2 \blacksquare 1) \blacksquare (1 \blacksquare 2) = ?$**

A) 4

B) 3

C) 2

D) 1

E) 0

12. I. $(a + 2) \triangle (b - 3) = \begin{cases} \dfrac{a + b}{2} , & a < b \\ \dfrac{b}{a} , & a \geq b \end{cases}$

II. **$(7 \triangle 6) : (7 \triangle 7) = ?$**

A) 3,5

B) 3,4

C) 3,3

D) 3,2

E) 3,1

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	C	E	B	E	A	E	A	E	B	E	A

1. I. $a \bullet b = \frac{2(a \blacktriangledown b)}{3} + 1$

II. $a \blacktriangledown b = (2a + 1)b$

III. $6 \bullet 2 = ?$

A) $\frac{55}{3}$

B) $\frac{52}{3}$

C) $\frac{11}{3}$

D) 52

E) 55

2. I. $a \blacktriangle b = \frac{a+b}{a \blacktriangledown b}$

II. $a \blacktriangledown b = b - a - 2$

III. $(8 \blacktriangle 12) \blacktriangle 10 = ?$

A) –5

B) –10

C) 0

D) 5

E) 10

3. I. $a * b = a^3 \square b^2$

II. $a \square b = (2 \cdot a - b) \cdot (a + b)$

III. $(2 * 4) = ?$

A) 16

B) 8

C) 0

D) –8

E) –16

4. I. $a \boxdot b = 2 \cdot a * (b - 4)$

II. $a * b = b - a$

III. $(4 * 7) \boxdot (5 * 8) = ?$

A) –8

B) –7

C) –6

D) –5

E) –4

5. I. $a \bullet b = (a - 1) \blacklozenge a^b$

II. $a \blacklozenge b = 2 \cdot a + b - 4$

III. $(4 \bullet 2) \blacklozenge (3 \bullet 1) = ?$

A) 35

B) 39

C) 41

D) 45

E) 47

6. I. $a \bigcirc b = (a - 1) \bigstar (b + 1)$

II. $a \bigstar b = a^b - 1$

III. $(3 \bigstar 1) \bigcirc (4 \bigstar 2) = ?$

A) 32

B) 16

C) 8

D) 1

E) 0

7. **I.** $a \triangle b = 3 \cdot b \text{ ✣ } (a-1)$

II. $b \text{ ✣ } a = \dfrac{2 \cdot a + 2 \cdot b}{4}$

III. $(8 \text{ ✣ } 2) \triangle (4 \text{ ✣ } 12) = ?$

A) 16
B) 14
C) 12
D) 10
E) 8

8. **I.** $a \text{ ✦ } b = 2 \cdot a \bigcirc b$

II. $a \bigcirc b = 2 \cdot b + a - 1$

III. $(1 \bigcirc 3) \text{ ✦ } (5 \bigcirc 2) = ?$

A) 27
B) 26
C) 25
D) 24
E) 23

9. **I.** $a \square b = (a+b) \text{ ➧ } (a-b)$

II. $a \text{ ➧ } b = 2 \cdot a - b$

III. $[(2 \text{ ➧ } 1) \text{ ➧ } 2] \square 3 = ?$

A) 10
B) 11
C) 12
D) 13
E) 14

10. **I.** $a \blacktriangleleft b = (2 \cdot a \bullet 3 \cdot b) - 3$

II. $a \bullet b = (a+b) - 1$

III. $(2 \bullet 1) \blacktriangleleft (4 \bullet 1) = ?$

A) 10
B) 11
C) 12
D) 13
E) 14

11. **I.** $a \text{ ✡ } b = (2 \cdot a \text{ ✦ } b) + 1$

II. $a \text{ ✦ } b = (a \text{ ✪ } 2 \cdot b) - 1$

III. $a \text{ ✪ } b = 2 \cdot a + b$

IV. $(2 \text{ ✡ } 1) \text{ ✦ } 4 = ?$

A) 3
B) 9
C) 18
D) 22
E) 27

12. **I.** $a \text{ ✪ } b = \dfrac{a-1}{a \bigstar b}$

II. $a \bigstar b = 2(a \spadesuit b)$

III. $a \spadesuit b = 3 \cdot a + 2 \cdot b$

IV. $(1 \spadesuit 2) \text{ ✪ } (3 \bigstar 1) = ?$

A) 3 B) 65 C) $\frac{2}{65}$ D) $\frac{3}{65}$ E) $\frac{3}{43}$

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	C	B	A	E	B	A	D	C	E	D

1. I. $a \blacklozenge b = 2 \cdot a \ast b$

II. $a \ast b = a \text{●} 3 \cdot b$

III. $a \text{●} b = 4 \cdot a + 2 \cdot b$

IV. $(2 \blacklozenge 4) \text{●} (6 \ast 3) = ?$

A) 232
B) 236
C) 240
D) 244
E) 248

2. I. $a \blacktriangle b = a \square b^2$

II. $a \square b = a^2 \ast b$

III. $a \ast b = (a - b)^2$

IV. $(3 \square 2) \ast (4 \blacktriangle 3) = ?$

A) 0
B) 7
C) 49
D) 196
E) 343

3. I. $a \supset b = a^b \ast b$

II. $a \ast b = b^a \square a$

III. $a \square b = a^b + b^a$

IV. $(2 \supset 1) \square (1 \ast 3) = ?$

A) 141
B) 142
C) 143
D) 144
E) 145

4. I. $a \text{✿} b = 2 \cdot a \text{✂} 3 \cdot b$

II. $a \text{✂} b = (a + 2) \blacksquare (b + 4)$

III. $a \blacksquare b = a - b$

IV. $((4 \text{✿} 2) \text{✂} 3)) \blacksquare 2 = ?$

A) – 6
B) – 7
C) – 8
D) – 9
E) – 10

5. I. $a \square b = \dfrac{(a \blacktriangledown b) - 1}{a + b}$

II. $a \blacktriangledown b = \dfrac{a}{b} + a \text{♥} b$

III. $a \text{♥} b = 2 \cdot a + b + 1$

IV. $[(3 \square 1) \text{♥} 2] \blacktriangledown 4 = ?$

A) 19
B) 20
C) 21
D) 22
E) 23

6. I. $a \triangle b = 3 \cdot a \ast b$

II. $a \ast b = \dfrac{3}{a} \blacksquare \dfrac{3}{b}$

III. $a \blacksquare b = \dfrac{1}{a} + b$

IV. $(1 \triangle 3) \blacksquare (6 \ast 9) = ?$

A) $\frac{14}{3}$
B) $\frac{17}{3}$
C) 6
D) $\frac{7}{3}$
E) $\frac{17}{6}$

7. I. a ☆ b = 2·b ● 3·a

II. a ● b = $\frac{a}{2}$ ♠ $\frac{b}{3}$

III. a ♠ b = 3·b – 2·a

IV. (1 ● 2) ♠ (2 ☆ 1) = ?

A) 3
B) 5
C) 8
D) 10
E) 12

8. I. a ❑ b = a ● 3·b

II. a ● b = (a – 2) ∆ b

III. a ∆ b = $\frac{a+b}{2}$

IV. (4 ❑ 2) ∆ (6 ● 5) = ?

A) $\frac{17}{2}$
B) $\frac{31}{6}$
C) $\frac{17}{4}$
D) $\frac{31}{2}$
E) $\frac{31}{4}$

9. I. a ✿ b = 2·a ♦ 4·b

II. a ♦ b = $\frac{a}{2}$ ▲ b

III. a ▲ b = 2·a + b

IV. (2 ✿ 1) ▲ (8 ♦ 4) = ?

A) 14
B) 20
C) 24
D) 28
E) 32

10. I. a ■ b = 2·a ❤ b^2

II. a ❤ b = a ∆ 4·b

III. a ∆ b = b – a

IV. $(2■2)-\left(3■\frac{1}{2}\right) = ?$

A) 15
B) 16
C) 17
D) 18
E) 20

11. I. a ✳ b = a ○ b – 2

II. a ○ b = a ❑ b + a

III. a ❑ b = a + b + 1

IV. 8 ✳ 9 = ?

A) 21
B) 22
C) 23
D) 24
E) 25

12. I. 2·a ▲ b = a ❑ 2b

II. a ❑ 4·b = 2·a ● b

III. a ● b = 2·a + b

IV. 6 ▲ 1 = ?

A) $\frac{25}{2}$
B) 13
C) $\frac{27}{2}$
D) 14
E) $\frac{29}{2}$

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1	2	3	4	5	6	7	8	9	10	11	12
D	A	E	B	E	E	D	C	D	C	D	A

1. **I.** a ✏ b = a + b – 5

II. 18 ✏ 19 = ?

A) 27
B) 28
C) 30
D) 31
E) 32

2. **I.** a ● b^2 = 3·a – 2·b

II. 15 ● 9 = ?

A) 39
B) 38
C) 37
D) 36
E) 35

3. **I.** a^3 ■ 2·b = a^2 – b

II. 125 ■ 24 = ?

A) 12
B) 13
C) 14
D) 15
E) 16

4. **I.** a ⊲ 3·b = a^3 + 5·b

II. 2 ⊲ 27 = ?

A) 50
B) 51
C) 52
D) 53
E) 54

5. **I.** a^2 ● b = a + b^2

II. 121 ● 12 = ?

A) 154
B) 155
C) 156
D) 157
E) 158

6. **I.** a ✖ b = a^2 + b^2 – a·b

II. 9 ✖ 8 = ?

A) 73
B) 72
C) 71
D) 70
E) 69

7. **I.** a ☆ b = (a ● b) – 9

II. a ● b = 2·a + 3·b

III. 5 ☆ 7 = ?

A) 20
B) 21
C) 22
D) 23
E) 24

8. **I.** a ❁ b = (a ✻ b) – 3

II. a ✻ b = $a^2 + b^3$

III. 7 ❁ 3 = ?

A) 70
B) 71
C) 72
D) 73
E) 74

9. **I.** 17x ○ y^2 = 2·x + 3·y

II. 5x ❑ y = x + 5·y

III. (51 ○ 25) – (25 ❑ 2) = ?

A) 2
B) 4
C) 6
D) 8
E) 10

10. **I.** a △ b = (a^2 ✻ 2b) – 2

II. a ❑ b = a·b + 1

III. (a ✻ b) = (a ❑ b) – 2

IV. (2 △ 3) + (5 ✻ 7) = ?

A) 55
B) 56
C) 57
D) 58
E) 59

11. **I.** a ▲ b = 15·a – 3·b

II. a ✇ b = 7·a + b^2

III. a ✻ b = a + b – 51

IV. (5 ▲ 10) ✻ (3 ✇ 9) = ?

A) 92
B) 93
C) 94
D) 95
E) 96

12. **I.** a ▲ b = 12·a + b – 5

II. a ✻ b = 7·a – b^3

III. (5 ▲ 12) – (4 ✻ 2) = ?

A) 39
B) 41
C) 43
D) 45
E) 47

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	A	B	D	B	A	C	D	C	A	E	E

1. I. $a^2 \triangle b^3 = 2 \cdot a + 4 \cdot b$

II. $(16 \triangle 8) + (64 \triangle 27) = ?$

A) 44
B) 45
C) 47
D) 49
E) 50

2. I. $a \blacksquare b = a + b^2 - 4$

II. $(7 \blacksquare 8) = ?$

A) 60
B) 63
C) 65
D) 67
E) 68

3. I. $a \circledast b = 2 \cdot a + 3 \cdot b$

II. $(6 \circledast 3) \circledast 4 = ?$

A) 52
B) 54
C) 56
D) 58
E) 60

4. I. $a^3 \blacktriangle b^2 = \frac{a \cdot b}{3}$

II. $a \blacktriangledown 3 \cdot b = 4 \cdot a - 2 \cdot b$

III. $(27 \blacktriangle 225) + (64 \blacktriangledown 18) = ?$

A) 255
B) 256
C) 257
D) 258
E) 259

5. I. $8 \cdot x \heartsuit 2 \cdot y = \frac{x}{y}$

II. $2 \cdot y \, ✪ \, 3x = y^2 + 3 \cdot x$

III. $a \copyright b = 12 \cdot a + b$

IV. $(56 \heartsuit 24) \copyright (20 \, ✪ \, 30) = ?$

A) 137
B) 138
C) 139
D) 140
E) 141

6. I. $a \, ✖ \, b = 3 \cdot a + 2 \cdot b - 4$

II. $a \, ☞ \, b = 4 \cdot a - 2 \cdot b + 7$

III. $a \, ✻ \, b = 3 \cdot a - 3 \cdot b + 9$

IV. $[[(7 \, ✖ \, 6) \, ✻ \, (4 \, ☞ \, 2)] \, ✻ \, (8 \, ✻ \, 7)] = ?$

A) 70
B) 75
C) 87
D) 90
E) 93

7\. **I.** $2\cdot x$ ✏ $3\cdot y = x + y + 8$

II. $4\cdot x$ ➾ $2\cdot y = \frac{x}{y}\cdot 9$

III. (18 ✏ 27) · (16 ➾ 36) = ?

A) 52
B) 56
C) 64
D) 72
E) 78

8\. **I.** $17\cdot x$ ▲ $3\cdot y = 3\cdot x - y + x^2$

II. $4\cdot x$ ❑ $3\cdot y^2 = x^2 + y^3$

III. (51 ▲ 21) + (16 ❑ 75) = ?

A) 150
B) 151
C) 152
D) 153
E) 154

9\. **I.** ● 75 = 24 ● 93 = 72 ● ab = $a^2 - b^2$

II. 48 ● = 48 79 ● = 32 ab ● = $b^2 - a^2$

III. ● 82 + 34 ● + ● 71 + 12 ● = ?

A) 118
B) 119
C) 120
D) 122
E) 123

10\. **I.** a ✖ b = (a ✍ $3\cdot b$) + 3

II. a ✿ b = $a\cdot b$

III. a ✍ b = (a ✿ b) – 3

IV. (3 ✖ 5) – (5 ✍ 7) = ?

A) 10
B) 11
C) 12
D) 13
E) 14

11\. **I.** a^5 ❑ b^3 = a x $3\cdot b$

II. a ○ b = 3a – b

III. $2\cdot a^2$ ▲ $3\cdot b = a + 2\cdot b - 3$

IV. (243 ❑ 8) ○ (288 ▲ 57) = ?

A) 5
B) 6
C) 7
D) 8
E) 9

12\. **I.** a ❑ b = (a ▼ b) x 4

II. a ▼ b = (a ○ b) + 4

III. a ○ b = a x b – 4

IV. (18 ❑ 6) – (9 ○ 3) = ?

A) 400
B) 401
C) 404
D) 407
E) 409

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	D	B	E	A	D	A	C	A	D	C	E

1. I. $a \odot b = 2 \cdot b^2 - a^2 + 4 \cdot a$
II. **$5 \odot 4 = ?$**

A) 27
B) 29
C) 30
D) 32
E) 35

2. $a \bullet b = a^{-b} - b^{-a} \Rightarrow$ **$2 \bullet 3 = ?$**

A) $\frac{1}{36}$
B) $\frac{1}{56}$
C) $\frac{1}{72}$
D) 36
E) 72

3. I. $a + b = 2 \cdot a - b$
II. $a \Delta b = \frac{a^2 - b}{3}$
III. **$(4 \Delta 4) + 7 = ?$**

A) 1
B) 2
C) 3
D) 4
E) 5

4. I. $a * b = 2 \cdot a \cdot b + b + 4$
II. $a \square b = 4 \cdot a - 2 \cdot b$
III. **$(2 \square 4) - (1 * 3) = ?$**

A) 13
B) 12
C) 0
D) –12
E) –13

5. I. $a \blacksquare b = 2 \cdot a \cdot b - 1$
II. $a \blacktriangledown b = 4 \cdot a^2 - 3 \cdot b$
III. **$\left(\frac{1}{8} \blacksquare 16\right) + (2 \blacktriangledown 5) = ?$**

A) 6
B) 5
C) 4
D) 3
E) 2

6. I. $a \Delta b = 8 \cdot a - 2 \cdot b$
II. $a \blacktriangledown b = b^{-a}$
III. **$\left(3 \blacktriangledown \frac{1}{2}\right) - (2 \Delta 4) = ?$**

A) –2
B) –1
C) 0
D) 1
E) 2

7. I. $3a \blacklozenge 7b = a^2 + b^2 - 2 \cdot a \cdot b$

II. $6a \ast 8b = 2 \cdot a - b + 1$

III. $(21 \blacklozenge 28) + (12 \ast 24) = ?$

A) 8

B) 9

C) 10

D) 11

E) 12

8. I. $\dfrac{5}{5 + \dfrac{5}{a \blacktriangle b}} = 2(a \blacktriangle b)$

II. $a \blacktriangle b = ?$

A) 2

B) $-\frac{1}{2}$

C) 0

D) $\frac{1}{2}$

E) –2

9. I. $a \blacksquare b = b \blacksquare a$

II. $\dfrac{1}{a \blacksquare b} + a = \dfrac{3}{b \blacksquare a} + \dfrac{1}{b}$

III. $4 \blacksquare 4 = ?$

A) $\frac{3}{4}$

B) $\frac{8}{15}$

C) $\frac{7}{8}$

D) $\frac{3}{2}$

E) $\frac{7}{4}$

10. I. $\dfrac{a \blacktriangledown b}{1 + \dfrac{2(a \blacktriangledown b)}{3}} = \dfrac{a+b}{a-b}$

II. $3 \blacktriangledown 1 = ?$

A) –8

B) –7

C) –6

D) –5

E) –1

11. I. $3b \clubsuit 2a = \dfrac{a+b+3}{3}$

II. $9a \star 4b = 4b - 2a + a \cdot b$

III. $7a \blacklozenge 3b = a + b + c$

IV. $(9 \clubsuit 6) + (27 \star 16) - (35 \blacklozenge 18) = 10 \Rightarrow c = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

12. I. $a \blacktriangle b = 2 \cdot a \cdot b - a^2$

II. $a \bullet b = 3 \cdot b - a \cdot b$

III. $a \blacksquare b = 2 \cdot a \cdot b + a$

IV. $1 \blacksquare ((2 \bullet 6) \blacktriangle 3) = ?$

A) 0

B) 1

C) 2

D) 3

E) 4

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1	2	3	4	5	6	7	8	9	10	11	12
A	C	A	E	C	C	D	B	B	C	D	B

1. I. $ac \triangle bd = 2 \cdot a + b - 3$
II. $(c - d) \square (c + d) = c + d^2 + 3$
III. $(1 \square 7) \triangle 27 = ?$

A) 1
B) 8
C) 10
D) 14
E) 18

2. I. $(x^3 - 1) \star (y^3 + 1) = y^{x-1} + y^{x+1}$
II. $63 \star 9 = ?$

A) 43
B) 42
C) 41
D) 40
E) 39

3. I. $a^6 \square b^3 = 3 \cdot b - a$
II. $b^4 \triangle a^2 = 3 \cdot b + 2 \cdot a$
III. $(256 \triangle 1) - (64 \square 27) = ?$

A) 14
B) 12
C) 9
D) 7
E) 5

4. I. $(a^2 - b)) \circledast (b^2 - 1) = b - a$
II. $10 \circledast 35 = ?$

A) –1
B) 0
C) 1
D) 2
E) 3

5. I. $a \circledast b = a^2 + b^2 - a \bigcirc b$
II. $3(a \circledast b) = 2(a \bigcirc b)$
III. $1 \circledast 2 = ?$

A) –10
B) 1
C) 2
D) 8
E) 6

6. I. $a \triangle b = 2(a \cdot b + a \bigstar b)$
II. $a \bigstar b = \dfrac{a^2 + b^2 - (a \triangle b)}{2}$
III. $1 \triangle 3 = ?$

A) 5
B) 4
C) 8
D) 2
E) 3

7. I. $\sqrt{a} \Delta \sqrt{b} = a - 2 \cdot b$

II. $x^{\frac{3}{2}} \Delta 2 = 0 \Rightarrow$ **x = ?**

A) 2
B) 3
C) –2
D) $2\sqrt{2}$
E) 0

8. I. $x \Delta y = 2 \cdot x - (x \blacksquare y)$

II. $x \blacksquare y = y - x + (x \blacklozenge y)$

III. $x \blacklozenge y = 2 \cdot x - y$

IV. $(3 \Delta 5) = ?$

A) 1
B) 2
C) 3
D) 4
E) 5

9. I. $x^y \bullet y^x = (x - y)^2 + x \cdot y$

II. $64 \bullet 81 = ?$

A) 14
B) 13
C) 12
D) 6
E) 1

10. I. $(x - 1) \cdot (x \blacktriangle y) + (x + y) \cdot (x \blacksquare y) = 2^x + y + y^x$

II. $2 \blacktriangle -2 = ?$

A) 4
B) 6
C) 8
D) 9
E) 10

11. I. $a \blacklozenge b = \dfrac{b}{\left(\frac{a}{b}\right)^x} + \dfrac{b}{\left(\frac{b}{a}\right)^b}$

II. $4 \blacklozenge 2 = 24 \Rightarrow$ **x = ?**

A) 3
B) 0
C) –1
D) –2
E) –3

12. I. $(x, y) ❖ (z, t) = (x \cdot z + y, y \cdot t + z)$

II. $(0, m) ❖ (1, n) = (2, 3) \Rightarrow$ **m + n = ?**

A) 4
B) 3
C) 2
D) 1
E) 0

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1	2	3	4	5	6	7	8	9	10	11	12
A	D	D	D	C	C	A	C	B	B	E	B

1. **I.** $x \Delta y = (b + 1) \cdot x + (a - 2) \cdot y - 1$

II. $(-1) \Delta 1 = 4 \Rightarrow$ **$a - b = ?$**

A) 10
B) 9
C) 8
D) 7
E) 6

2. $x < y$,

I. $(x \cdot y) * \left(\frac{y}{x}\right) = 3 \cdot x + y$

II. **$8 * 2 = ?$**

A) 10
B) 9
C) 8
D) 7
E) 6

3. **I.** $a \bigcirc b = (1 - b)^a + (1 + a)^b$

II. **$(2 \bigcirc 1) \bigcirc 3 = ?$**

A) 56
B) 76
C) 120
D) 141
E) 156

4. **I.** $a \square b = \frac{a^2 + b}{a \cdot b}$

II. $2 \square x = 4 \square 2 \Rightarrow$ **$x = ?$**

A) $\frac{4}{17}$
B) $\frac{8}{7}$
C) $\frac{8}{3}$
D) $\frac{4}{3}$
E) $\frac{4}{5}$

5. **I.** $a \clubsuit b = a \cdot b + 4 \cdot a + 3 \cdot b + 8$

II. **$(-1) \clubsuit (-2) = ?$**

A) –1
B) 0
C) 1
D) 2
E) 3

6. **I.** $a \star b = a + b + 2 \cdot k$

II. $(P \star 2) = 2(4 + k) \Rightarrow$ **$P = ?$**

A) 4
B) 5
C) 6
D) 7
E) 8

7. **I.** $a \heartsuit b = 2 \cdot b - a + 1$
II. $a \ast b = 2 \cdot a + b - 1$
III. $(2 \ast x) = (1 \heartsuit 4) \Rightarrow$ **x = ?**

A) 5
B) 6
C) 7
D) 8
E) 9

8. **I.** $x \bullet y = x \Delta (2 \Delta y)$
II. $x \Delta y = x + y$
III. $-1 \bullet a = 5 \Rightarrow$ **a = ?**

A) 2
B) 3
C) 4
D) 5
E) 6

9. **I.** $a \blacksquare b = a^2 + b^2 + (a \cdot b)^2$
II. $\sqrt{3} \blacksquare \sqrt{2} = ?$

A) 7
B) 8
C) 9
D) 10
E) 11

10. **I.** $a \Delta b = a^2 - b^2 + 2 \cdot a - 2(a \Delta b)$
II. $\frac{1}{2} \Delta 2 = ?$

A) $\frac{11}{12}$
B) $\frac{6}{5}$
C) $-\frac{6}{5}$
D) 0
E) $-\frac{11}{12}$

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11. $\dfrac{3(a \Delta b)}{2(a \blacktriangledown b)} = \dfrac{a \cdot b}{a+b} \Rightarrow \dfrac{4 \blacktriangledown 2}{4 \Delta 2} = ?$

A) $\frac{9}{8}$
B) $\frac{9}{7}$
C) $\frac{8}{9}$
D) $\frac{7}{8}$
E) $\frac{6}{7}$

12. **I.** $\frac{2}{a} \blacksquare \frac{3}{b} = a + b$
II. $4 \blacksquare 6 = ?$

A) $\frac{1}{2}$ B) $\frac{1}{4}$ C) 0
D) 1 E) 2

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	A	A	B	B	C	A	C	E	E	A	D

1. I. $a \triangle b = a \square b - 3$
II. $a \square b = a \ast b + 3$
III. $a \ast b = a + b$
IV. $3 \triangle 1 = ?$

A) 2
B) 3
C) 4
D) 5
E) 6

2. I. $x^3 \triangle y^5 = y^x + (x \blacklozenge y)$
II. $(x \blacklozenge y) = x \cdot y \Rightarrow$ **$27 \triangle 32 = ?$**

A) 18
B) 17
C) 16
D) 15
E) 14

3. I. $a \square b = a + (a \triangle b)$
II. $a \triangle b = b + (a \ast b)$
III. $a \ast b = a \cdot b$
IV. $(2 \square 1) + (4 \triangle 2) = ?$

A) 3
B) 5
C) 10
D) 15
E) 19

4. I. $5(x \triangle y) = 3(x \square y) + (x \ast y)$
II. $(x \ast y) = 2(x \square y)$
III. $x \ast y = 2x + 3y$
IV. $3 \triangle 4 = ?$

A) 45
B) 38
C) 24
D) 18
E) 9

5. I. $a \ast b = 2 \cdot a + b - (a \square b)$
II. $2(a \square b) = a \ast b$
III. $1 \square 25 = ?$

A) 11
B) 10
C) 9
D) 8
E) 7

6. I. $\dfrac{a \ast b}{1 + \dfrac{a \ast b}{3}} = a \ast b$
II. $a \ast b = ?$

A) –1
B) 0
C) 1
D) 2
E) 3

7. I. a^b ☛ $b^a = (a+b)^2$

II. a^2 ■ $b^2 = (b-a)^2$

III. $\left(\frac{1}{a}\right)^2$ ● $\left(\frac{1}{b}\right)^3 = a^2 + 2ab + b^2$

IV. (64 ☛ 81) ■ (36^{-1} ● 64^{-1}) = ?

A) 4
B) 9
C) 16
D) 25
E) 44

8. I. a ▲ b = (a ❏ b) x a

II. a ❏ b = (a ✱ b) + a^2

III. a ✱ b = $a^2 + b^2$

IV. (4 ▲ 3) – (2 ✱ 5) = ?

A) 131
B) 133
C) 135
D) 136
E) 137

9. I. a ❈ b = a ● (b + 1)

II. a ● b = (a + 2) ▲ b

III. a ▲ b = (a + 4)·(b – 3)

IV. (4 ❈ 3) ▲ (5 ● 4) = ?

A) 108
B) 110
C) 112
D) 114
E) 116

10. I. $x \,\Delta\, y = \begin{cases} 2 \cdot x - 3 \cdot y, & x \cdot y < 0 \\ 4 \cdot y - x, & x \cdot y > 0 \end{cases}$

II. (9 Δ –8) – (3 Δ 2) = ?

A) 28
B) 29
C) 37
D) 42
E) 50

11. I. $a \,❏\, b = \begin{cases} a + b, & a < b \\ a - b, & a = b \\ 2 \cdot b, & a > b \end{cases}$

II. (–2 ❏ 2) + (3 ❏ 2) = ?

A) 3
B) 4
C) 5
D) 6
E) 7

12. I. 3·a ❏ 4·b = 2·a + b,

II. 8·b Δ 7·a = $a^2 + b^2$

III. (18 ❏ 20) – (16 Δ 21) = ?

A) 8
B) 7
C) 6
D) 5
E) 4

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1	2	3	4	5	6	7	8	9	10	11	12
C	E	D	E	C	B	B	C	C	C	B	E

1. I. a △ b = a + b

II. a ✳ b = a – b

III. a ❑ b = $(a + b)^2$

IV. [(3 ❑ 4) ✳ (2 △ 7)] = ?

A) 40
B) 41
C) 42
D) 43
E) 44

2. I. a ● b = (a + b) – (a – b)

II. a ■ b = (a·b) – (a : b)

III. a ▲ b = a + b

IV. [(7 ● 5) ▲ (6 ■ 2)] = ?

A) 17
B) 18
C) 19
D) 20
E) 21

3. I. a △ b = $\frac{1}{a} + \frac{1}{b}$

II. a ❑ b = $\frac{1}{a} - \frac{1}{b}$

III. a ● b = $\frac{a+b}{a-b}$

IV. [(2 △ 3) ● (2 ❑ 3)] = ?

A) $\frac{5}{4}$ B) $\frac{6}{5}$ C) $\frac{7}{2}$ D) $\frac{9}{2}$ E) $\frac{3}{2}$

4. I. a ○ b = 2·a △ b

II. a △ b = a ❑ 3·b

III. a ❑ b = a + b

IV. [(1 ○ 3) ❑ (5 ○ 2)] ❑ 10 = ?

A) 35
B) 36
C) 37
D) 38
E) 39

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5. I. (a △ b) ● c = (a + b) ● c

II. (a ● b) ❑ c = (a – b) ❑ c

III. a ❑ b = a·b

IV. ((4 △ 3) ● 1) ❑ ((9 ● 4) ❑ 2) = ?

A) 35
B) 45
C) 60
D) 70
E) 85

6. I. a ▲ b = (2·a + b)

II. a ● b = (a + 3·b)

III. a ■ b = (3·a – 2·b)

IV. [(5 ▲ 2) ■ (4 ● 3)] = ?

A) 10
B) 11
C) 12
D) 13
E) 14

7. **I.** $x \square y = x \Delta 2y$

II. $x \Delta y = 4x - y$

III. $x \bigcirc y = x \square y$

IV. $[(5 \Delta 4) \bigcirc (5 \square 5)] = ?$

A) 44
B) 45
C) 46
D) 47
E) 48

8. **I.** $x \ast y = x^2 + y^2$

II. $x \circledast y = 3x \bullet 2y$

III. $x \bullet y = \dfrac{x+y}{2}$

IV. $[(2 \ast 3) \bullet (4 \circledast 4)] \bullet \dfrac{5}{2} = ?$

A) 7
B) 8
C) 9
D) 10
E) 12

9. **I.** $a \Delta b = (a + b) + (a - b)$

II. $a \blacktriangle b = (a \blacksquare 2 \cdot b)$

III. $a \blacksquare b = a^2 + b$

IV. $[((2 \Delta 1) \blacktriangle 2) \Delta 9] = ?$

A) 38
B) 39
C) 40
D) 41
E) 42

10. **I.** $a \circledast b = 3 \cdot a \ast b$

II. $a \ast b = a \square 2 \cdot b$

III. $a \square b = (a - b)^2$

IV. $[(3 \circledast 2) \square (8 \ast 2)] = ?$

A) 64
B) 81
C) 100
D) 121
E) 144

11. **I.** $x \Delta y = \dfrac{x+y}{x \cdot y} : \dfrac{1}{x \blacksquare y}$

II. $\dfrac{(4 \blacksquare 3)}{(4 \Delta 3)} = ?$

A) $\dfrac{14}{25}$ B) $\dfrac{12}{7}$ C) $\dfrac{7}{12}$ D) $\dfrac{144}{49}$ E) $\dfrac{49}{144}$

12. **I.** $(a - 2 \cdot b) \Delta (2 \cdot a + b) = \dfrac{b}{a} + \dfrac{a}{b}$

II. $c^3 \square (2 \cdot d - c) = c + d$

III. $(2 \Delta 9) + (8 \square 4) = ?$

A) $\dfrac{17}{4}$
B) 2
C) $\dfrac{1}{2}$
D) $\dfrac{37}{4}$
E) $\dfrac{9}{2}$

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	C	E	C	C	A	A	A	C	B	B	D

1. **I.** a ❦ b = $\frac{a}{b} \cdot 3$

   II. a ✼ b = $a^2 + b^3$

   III. (21 ❦ 3) + (2 ✼ 3) = ?

   A) 52
   B) 54
   C) 56
   D) 58
   E) 60

2. **I.** a ■ b = $a + b^a$

   II. a ● b = $a^b + b$

   III. (2 ● 3) + (3 ■ 2) = ?

   A) 11
   B) 16
   C) 22
   D) 27
   E) 32

3. **I.** a ▲ b = $a^3 - b^2$

   II. a ■ b = $a^2 + b^3$

   III. (2 ■ 3) + (4 ▲ 2) = ?

   A) 90
   B) 91
   C) 92
   D) 93
   E) 94

4. **I.** a ✏ b = $\frac{a+b}{a}$

   II. a ✐ b = $\frac{b}{a} + a$

   III. (2 ✏ 18) + (4 ✐ 16) = ?

   A) 12
   B) 14
   C) 16
   D) 18
   E) 20

5. **I.** a ✇ b = $a^2 + b^2$

   II. a ✹ b = $a^3 - b^3$

   III. (4 ✹ 2) – (4 ✇ 3) = ?

   A) 33
   B) 32
   C) 31
   D) 30
   E) 29

6. **I.** a ✇ b = $4 \cdot a + b$

   II. a ✪ b = $a - 3 \cdot b$

   III. (6 ✇ 8) ÷ (17 ✪ 3) = ?

   A) 2
   B) 3
   C) 4
   D) 5
   E) 6

7. **I.** a ❤ b = $\frac{a \cdot b}{2}$

II. a ✔ b = $\frac{a+2 \cdot b}{b}$

III. (16 ✔ 4) x (4 ❤ 5) = ?

A) 40
B) 50
C) 60
D) 70
E) 80

8. **I.** a ▲ b = $4 \cdot (a + b)$

II. a ■ b = $a^3 + b^3$

III. $\left(\frac{4 ■ 2}{4}\right)$ ▲ $\left(\frac{1 ■ 3}{2}\right)$ **= ?**

A) 128
B) 130
C) 132
D) 134
E) 136

9. **I.** a ✇ b = $2 \cdot a + 3 \cdot b + 4$

II. a © b = $4 \cdot a + 2 \cdot b + 4$

III. (4 © 16) ✇ (2 © 2) = ?

A) 154
B) 156
C) 158
D) 160
E) 162

10. **I.** a ✇ b = $a^2 - b$

II. a © b = $a^4 + b$

III. (2 © 4) ✇ (3 © 4) = ?

A) 300
B) 305
C) 310
D) 315
E) 320

11. **I.** a ○ b = $\frac{a}{2} + \frac{b}{3}$

II. a ❑ b = $\frac{2 \cdot a + 2 \cdot b}{3}$

III. (4 ❑ 8) ○ (14 ○ 15) = ?

A) 6
B) 8
C) 10
D) 12
E) 14

12. **I.** a ✤ b = $\frac{a}{b} + a$

II. a ✪ b = $b + \frac{b}{a}$

III. (16 ✤ 2) ✪ (8 ✪ 64) = ?

A) 24
B) 27
C) 48
D) 75
E) 82

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	C	B	D	C	C	C	A	B	D	B	D

1. **I.** $a \ast b = a^b - a$
   II. $a \otimes b = b^a + b$
   III. $(1 \ast 2) \otimes (3 \otimes 2) = ?$

A) 11
B) 12
C) 21
D) 22
E) 23

2. **I.** a ♀ b = $a^3 - b$
   II. $a \boxtimes b = a + b^2$
   III. **(4 ♀ 32) ⊠ (2 ♀ 3) = ?**

A) 53
B) 54
C) 55
D) 56
E) 57

3. **I.** $a \infty b = 4 \cdot a - 3 \cdot b + 2$
   II. $a \bigcirc b = 2 \cdot a + 4 \cdot b - 6$
   III. $(3 \bigcirc 2) \bigcirc (4 \infty 3) = ?$

A) 44
B) 46
C) 48
D) 50
E) 52

4. **I.** a ❤ b = $a^b - 1$
   II. a ✪ b = $a \cdot b - 4 \cdot b$
   III. a ✻ b = $a^{2b} - a^{-2b}$
   IV. **(2 ✻ 1) ✪ (3 ❤ 2) = ?**

A) –1
B) –2
C) –3
D) –4
E) –5

5. **I.** $a \bigcirc b = 2 \cdot b \cdot a - 2 \cdot a$
   II. a ❂ b = $(a - b) \cdot (a + b)$
   III. a ✧ b = $(a - b) \cdot 2$
   IV. **(8 ✧ 4) ❂ (2 ○ 3) = ?**

A) 4
B) 3
C) 2
D) 1
E) 0

6. **I.** $a \blacktriangledown b = \dfrac{a}{b} + 1$
   II. $a \triangle b = 2 \cdot \left(a \cdot b - \dfrac{a}{b}\right)$
   III. $a \divideontimes b = \dfrac{1}{a} + \dfrac{2}{b}$
   IV. $\left[\left(\dfrac{1}{5} \divideontimes \dfrac{1}{2}\right) \blacktriangledown 1\right] \triangle 4 = ?$

A) 60
B) 65
C) 70
D) 75
E) 80

7. I. $a \blacksquare b = \dfrac{a^2 - b}{2}$

II. $a \boxdot b = (a + b) \cdot 2$

III. $a \square b = 3 \cdot a - 2 \cdot b$

IV. $(4 \square 6) \boxdot (4 \blacksquare 2) = ?$

A) 13
B) 14
C) 15
D) 16
E) 18

8. I. $2a^2 \blacktriangledown 2b^3 = a^3 + b^2$

II. $a^{-b} \times b^2 = b - a$

III. $\dfrac{a^2}{b} \square \dfrac{b^3}{3} = 2 \cdot a + b$

IV. $(32 \blacktriangledown 54) - \left(\dfrac{1}{9} \times 4\right) - (12 \square 9) = ?$

A) 59
B) 60
C) 61
D) 62
E) 63

9. I. $6 \cdot a \circledast 3 \cdot b = a + b + 2$

II. $a^3 \bigstar 3 \cdot b^3 = a \cdot b - 2$

III. $\dfrac{3 \cdot a}{2} \star 4 \cdot b = a \cdot b - a^b$

IV. $(66 \circledast 9) - (6 \star 8) + (8 \bigstar 81) = ?$

A) 12
B) 16
C) 20
D) 24
E) 28

10. I. $7 \cdot a \bigcirc 8 \cdot b = a \cdot b + b^2$

II. $a^2 \square b^5 = 3 \cdot a + 4 \cdot b - 2$

III. $\dfrac{2 \cdot a + b}{2} \triangle \dfrac{a - 2 \cdot b}{2} = a + b$

IV. $(8 \triangle -1) - (4 \square 243) - (14 \bigcirc 16) = ?$

A) –14
B) –15
C) –16
D) –17
E) –18

11. I. $4a^2 \blacktriangledown 9b^2 = \dfrac{a \cdot b}{a + b}$

II. $\sqrt{a} \triangle \sqrt{b} = a + b$

III. $\sqrt[3]{a} \blacksquare \sqrt[4]{b} = a - b$

IV. $(2 \triangle 4) - (16 \blacktriangledown 81) - (3 \blacksquare 2) = ?$

A) $\dfrac{36}{5}$
B) $\dfrac{37}{5}$
C) $\dfrac{38}{5}$
D) $\dfrac{39}{5}$
E) 8

12. I. $\sqrt{a} \diamond b^3 = (a + b) - 3 \cdot a \cdot b$

II. $a^2 \blacksquare \sqrt[3]{b} = \sqrt{a} + \sqrt{b}$

III. $2 \cdot a \odot 3 \cdot b = \dfrac{a - b}{2}$

IV. $(4 \diamond 8) + (81 \blacksquare 4) + (24 \odot 6) = ?$

A) –58
B) –60
C) –62
D) –64
E) –6

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	E	B	B	E	D	B	A	E	A	D	C

1. **I.** $6\cdot a \spadesuit b^3 = b^2 + a + 9$

II. $a^2 \ast 3\cdot b = a\cdot b$

III. $(12 \spadesuit 125) \ast (4 \ast 9) = ?$

A) 10
B) 12
C) 14
D) 16
E) 18

2. **I.** $3\cdot a^3 \blacktriangle (b^2 + 1) = a^2 + \frac{b}{3}$

II. $(a - 12) \blacksquare (4\cdot b) = 3 \cdot a + \frac{b}{5}$

III. $\sqrt[3]{a} \ast \sqrt{2\cdot b} = a + 2\cdot b$

IV. $(24 \blacktriangle 37) \blacksquare (4 \ast 4) = ?$

A) 50
B) 52
C) 54
D) 56
E) 58

3. **I.** $5\cdot a \star 4\cdot b = (a + 2)\cdot(b - 1)$

II. $4\cdot a^2 \bullet \frac{b^2}{2} = (2\cdot a) - b$

III. $2\cdot a \blacksquare 6\cdot b = b^a$

IV. $(2 \blacksquare 30) \star (144 \bullet 32) = ?$

A) 0
B) 4
C) 7
D) 13
E) 15

4. **I.** $a^2 \ast 2\cdot b^2 = 2\cdot a + 3\cdot b$

II. $\sqrt{a} \bullet b^3 = b + a$

III. $6\cdot a \blacktriangle \sqrt[3]{b} = \frac{b}{a}$

IV. $(24 \blacktriangle 2) - (16 \ast 18) + (3 \bullet 216) = ?$

A) –2
B) –1
C) 0
D) 1
E) 2

5. **I.** $(a + 2)^2 \text{✪} b^b = a + 2\cdot b$

II. $8\cdot a \bullet 10\cdot b = 2\cdot a - b$

III. $a^{1/2} \text{✺} b^{1/3} = 2\cdot a - \sqrt{b}$

IV. $(4 \text{✺} 4) \bullet (36 \text{✪} 27) = ?$

A) 4
B) 5
C) 6
D) 7
E) 8

6. **I.** $a^a \bullet b^2 = 2\cdot a + b$

II. $\left(\frac{a+2}{2}\right) \text{✿} \left(\frac{b-3}{3}\right) = a^2 + b$

III. $\left(\frac{a+3}{2}\right) \blacktriangledown \left(\frac{b-3}{2}\right) = 2\cdot a + b$

IV. $(3 \text{✿} 2) \blacktriangledown (256 \bullet 225) = ?$

A) 139
B) 141
C) 143
D) 145
E) 147

7. I. $2^a \bullet 3^b = a^2 + 3 \cdot b$

II. $\left(\frac{a+b}{2}\right) ✿ \left(\frac{a-b}{4}\right) = 2 \cdot a - b$

III. $(a + 7) ✇ (4 \cdot b) = a + b + 2$

IV. (32 ● 81) ✇ (24 ✿ 4) = ?

A) 32

B) 36

C) 40

D) 44

E) 48

8. I. $\dfrac{\frac{1}{2}}{a \blacklozenge b} = \dfrac{a+b}{\frac{1}{2a}-b}$

II. $\dfrac{(a \Delta b)-1}{\frac{1}{a-b}-2} = \dfrac{a \Delta b}{2}$

III. $\dfrac{\mathbf{2 \blacklozenge 1}}{\mathbf{1 \Delta 2}} = ?$

A) –28

B) –24

C) –20

D) –16

E) –12

9. I. $\dfrac{2(a \clubsuit b)-1}{(a \blacktriangledown b)+1} = \dfrac{a^2+2 \cdot b}{a+b}$

II. **(2 ♣ 3) – (2 ▼ 3) = ?**

A) 1

B) 2

C) 3

D) $\frac{1}{2}$

E) $\frac{3}{2}$

10. I. $\dfrac{\frac{4 \cdot a^2+b}{3 \cdot (a \Delta b)}}{\frac{2 \cdot b}{a \blacksquare b}} = \dfrac{a^2+b}{a^2-b}$

II. $\dfrac{\left(\frac{1}{2} \blacksquare 2\right)}{\left(\frac{1}{2} \Delta 2\right)} = ?$

A) $-\frac{35}{7}$

B) $-\frac{36}{7}$

C) $-\frac{39}{7}$

D) $\frac{35}{7}$

E) $\frac{36}{7}$

11. I. $\dfrac{\frac{2 \cdot (a \spadesuit b)-1}{b-a}}{\frac{3 \cdot (a \bigstar b)+1}{a+b}} = \dfrac{2 \cdot a+b}{a \cdot b}$

II. $\mathbf{3 \cdot (3 \spadesuit 6) - (3 \bigstar 6) = ?}$

A) $\frac{3}{2}$

B) $\frac{7}{3}$

C) $\frac{9}{2}$

D) $\frac{11}{6}$

E) $\frac{11}{3}$

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11
B	E	A	C	B	C	D	C	E	B	D

1. **I.** $(a, b) \bigcirc (c, d) = (a \cdot c + b, b \cdot d + c)$

II. $(x, 3) \bigcirc (4, y) = (1, 2) \bigcirc (5, 4)$

III. $\mathbf{x + y = ?}$

A) 5
B) 4
C) 3
D) 2
E) 1

2. **I.** $(x, y) \star (z, t) = \left(\frac{x \cdot z - t}{y}, \frac{y \cdot t - x}{z}\right)$

II. $(4, 3) \star (a, b) = (1, 2) \Rightarrow$ **a = ?**

A) $\frac{12}{10}$
B) $\frac{13}{10}$
C) $\frac{9}{13}$
D) $\frac{10}{13}$
E) $\frac{10}{12}$

3. **I.** $(a, b) \bigcirc (c, d) = \left(\frac{a-b}{c}, \frac{d-c}{a}\right)$

II. $(x, 3) \bigcirc (4, y) = (2, 6) \Rightarrow \sqrt{\mathbf{x + y}}$ **= ?**

A) 9
B) 8
C) 7
D) 6
E) 5

4. **I.** $(a, b) \Delta (c, d) = (a^{b+d}, d^{a+c})$

II. $(x, 3) \Delta (y, 5) = (z, 125) \Rightarrow$ **x + y = ?**

A) 0
B) 1
C) 2
D) 3
E) 4

5. **I.** $(x, y) \square (z, t) = (x^y + 1, z^t - 1)$

II. $(2, a) \square (3, 1) = (9, 2) \Rightarrow$ **a = ?**

A) 5
B) 4
C) 3
D) 2
E) 1

6. **I.** $(a, b) ◤ (c, d) = (a + c, b + c + d)$

II. $(x, y) ◤ (5, y) = (y, x) \Rightarrow$ **y – x = ?**

A) –5
B) –2
C) 0
D) 2
E) 5

7. **I.** $(2\cdot a, 3\cdot b) ◢ (3\cdot c, d) = (a^b, d^c)$

II. $(4, -9) ◢ (-3, 3) = (x, y)$

III. $\frac{1}{x} + \frac{1}{y} = ?$

A) 8
B) 9
C) 10
D) 11
E) 12

8. **I.** $(a^{-3}, b^{-4}) \bigcirc (c^{-5}, d^{-6}) = (a+b, c+d)$

II. $\left(\frac{1}{8}, \frac{1}{81}\right) \bigcirc \left(1, \frac{1}{64}\right) = ?$

A) (3, 3)
B) (3, 4)
C) (5, 3)
D) (3, 5)
E) (4, 3)

9. **I.** $x^2 \bigcirc y^3 = \begin{cases} 3\cdot y + 1, & x < y \\ 4\cdot x, & x > y \end{cases}$

II. $(16 \bigcirc 8) \bigcirc 125 = 2^a \Rightarrow$ **a = ?**

A) 4
B) 3
C) 2
D) 1
E) –2

10. **I.** $2 \cdot x \,\Delta\, y = \begin{cases} 2\cdot x - 1, & x = y \\ 3\cdot y + 1, & x > y \end{cases}$

II. $(2 \,\Delta\, 1) \,\Delta\, -2 = ?$

A) –8
B) –7
C) –6
D) –5
E) 6

11. **I.** $x^2 \blacksquare y^2 = \begin{cases} 2\cdot x^2 - y, & x < y \\ 2\cdot x^2 - 3\cdot y, & x > y \end{cases}$

II. $\frac{(36 \blacksquare 16)}{(4 \blacksquare 9)} = ?$

A) 15
B) 14
C) 13
D) 12
E) 10

12. **I.** $\sqrt{a} \,\Delta\, \sqrt{b} = \begin{cases} 2\cdot a + b, & a > b \\ b - a, & a < b \end{cases}$

II. $(2 \,\Delta\, 1) \,\Delta\, 11 = ?$

A) 45
B) 40
C) 35
D) 30
E) 25

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	B	A	D	C	E	D	C	A	D	D	B

1. **I.** $a \triangle b = 7 \cdot a - 4 \cdot b$

II. $a \,\square\, b = b^2 - a$

III. $a \bigcirc b = a + b$

IV. $[(3 \bigcirc 2) \,\square\, 4] \triangle 1 = ?$

A) 70
B) 73
C) 78
D) 80
E) 83

2. **I.** $x \blacktriangle y = 2 \cdot (x \spadesuit y)$

II. $x \triangle y = y^2 - 2 \cdot x$

III. $x \spadesuit y = x \cdot y$

IV. $\left[\left(2 \blacktriangle \frac{1}{8}\right) \triangle 6\right] \spadesuit 3 = ?$

A) 90
B) 100
C) 105
D) 115
E) 125

3. **I.** $6 \cdot a^2$ ⁜ $4 \cdot b = 4 \cdot a - 2 \cdot b$

II. $5 \cdot b$ ✱ $3 \cdot a = a \cdot b + a + b$

III. (35 ✱ 9) – (216 ⁜ 16) = ?

A) 15
B) 11
C) 7
D) 5
E) 3

4. **I.** $19 \cdot a$ ❤ $7 \cdot b = 3 \cdot a + 2 \cdot b$

II. $21 \cdot b$ ✿ $9 \cdot a = b - a$

III. (95 ❤ 7) + (63 ✿ 18) = ?

A) 16
B) 17
C) 18
D) 19
E) 20

5. **I.** $(x,y)\triangle(z,t) = \left(\frac{x+z}{y}, \frac{y+t}{z}\right)$

II. $(a,b)\blacksquare(c,d) = \left(\frac{c}{a}, \frac{b}{d}\right)$

III. $[(1,4)\blacksquare(k,2)]\triangle[(1,6)\blacksquare(2,3)] = (4,2)$

$\Rightarrow$ **k = ?**

A) 4
B) 6
C) 8
D) 10
E) 12

6. **I.** $x \bullet y = x^3 - 3 \cdot x^2 \cdot y + 3 \cdot x \cdot y^2 - y^3$

II. $2008 \bullet 2009 = ?$

A) –2
B) –1
C) 0
D) 1
E) 2

7. I. $\frac{1}{x \clubsuit y} = \sqrt{x \cdot y} - y + x^2$

II. $2 \clubsuit \frac{1}{2} = ?$

A) $\frac{9}{2}$

B) $\frac{3}{2}$

C) $\frac{2}{9}$

D) 9

E) 2

8. I. (x, y) ♥ (z, t) = (x – z, t – y)

II. (4, 1) ♥ (2, 2) = (k, 3) ♥ (2, 4) ⇒ **k = ?**

A) 1

B) 2

C) 3

D) 4

E) 5

9. I. $(x, y) * (z, t) = (x \cdot z, y + t)$

II. $(2, 2) * (0, -2) = ?$

A) (0, 1)

B) (0, 0)

C) (0, –4)

D) (1, 0)

E) (–4, 0)

10. I. $x \blacklozenge y = \sqrt[5]{y - x}$

II. $2 \blacklozenge 34 = ?$

A) 0

B) 1

C) 2

D) 3

E) 4

11. I. $a \bullet b = a^2 + 2 \cdot b$

II. $(1 \bullet x)^{-1} = 3 \bullet 2^{-1} \Rightarrow$ **x = ?**

A) $\frac{-7}{20}$

B) $\frac{-9}{20}$

C) 1

D) $\frac{7}{20}$

E) $\frac{9}{20}$

12. I. $(2 \cdot x + 1) \spadesuit (y \cdot x - 1) = 2 \cdot x + y + x \cdot y$

II. $5 \spadesuit 7 = ?$

A) 14

B) 15

C) 16

D) 17

E) 18

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	A	C	B	B	C	D	B	C	B	C

1. I. 9 ✁ 4 = 7
   II. 8 ✁ 2 = 8
   III. 6 ✁ 3 = 5
   IV. 7 ✁ 4 = ?

   A) 4
   B) 5
   C) 6
   D) 7
   E) 8

2. I. 7 ✂ 9 = 17
   II. 12 ✂ 3 = 16
   III. 4 ✂ 17 = 22
   IV. 11 ✂ 14 = ?

   A) 26
   B) 25
   C) 24
   D) 23
   E) 22

3. I. 4 ☎ 8 = 16
   II. 6 ☎ 9 = 27
   III. 3 ☎ 6 = 9
   IV. 7 ☎ 4 = ?

   A) 10
   B) 12
   C) 14
   D) 16
   E) 48

4. I. 24 © 4 = 5
   II. 30 © 10 = 2
   III. 16 © 4 = 3
   IV. 28 © 7 = ?

   A) 2
   B) 3
   C) 4
   D) 5
   E) 6

5. I. 16 ✇ 8 = 12
   II. 18 ✇ 2 = 10
   III. 4 ✇ 10 = 7
   IV. 14 ✇ 12 = ?

   A) 10
   B) 11
   C) 12
   D) 13
   E) 14

6. I. 9 ✉ 17 = 29
   II. 18 ✉ 5 = 26
   III. 8 ✉ 7 = 18
   IV. 12 ✉ 6 = ?

   A) 17
   B) 18
   C) 19
   D) 20
   E) 21

7. I. 24 ☛ 10 = 12
II. 12 ☛ 7 = 3
III. 36 ☛ 21 = 13
IV. 9 ☛ 3 = ?

A) 1
B) 2
C) 3
D) 4
E) 5

8. I. 6 ☞ 3 = 6
II. 9 ☞ 6 = 18
III. 12 ☞ 2 = 8
IV. 4 ☞ 15 = ?

A) 18
B) 19
C) 20
D) 21
E) 22

9. I. 20 ✌ 16 = 2
II. 8 ✌ 4 = 2
III. 19 ✌ 13 = 3
IV. 21 ✌ 7 = ?

A) 5
B) 6
C) 7
D) 8
E) 9

10. I. 14 ✍ 2 = 13
II. 8 ✍ 19 = 24
III. 6 ✍ 7 = 10
IV. 12 ✍ 11 = ?

A) 19
B) 20
C) 21
D) 22
E) 23

11. I. 11 ✎ 13 = 8
II. 9 ✎ 6 = 5
III. 17 ✎ 4 = 7
IV. 13 ✎ 5 = ?

A) 6
B) 7
C) 8
D) 9
E) 10

12. I. 12 ✏ 16 = 7
II. 8 ✏ 16 = 6
III. 9 ✏ 11 = 5
IV. 7 ✏ 9 = ?

A) 4
B) 5
C) 6
D) 7
E) 8

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	A	C	B	D	E	D	C	C	B	A	A

1. I. 19 ✠ 3 = 13
II. 26 ✠ 10 = 6
III. 18 ✠ 7 = 4
IV. 14 ✠ 3 = ?

A) 6
B) 7
C) 8
D) 9
E) 10

2. I. 2 ✡ 6 = 20
II. 9 ✡ 4 = 21
III. 8 ✡ 7 = 29
IV. 5 ✡ 2 = ?

A) 9
B) 10
C) 11
D) 12
E) 13

3. I. 14 ✛ 8 = 12
II. 26 ✛ 12 = 28
III. 13 ✛ 5 = 16
IV. 21 ✛ 12 = ?

A) 16
B) 18
C) 20
D) 22
E) 24

4. I. 4 ✣ 6 = 18
II. 2 ✣ 9 = 15
III. 5 ✣ 8 = 23
IV. 7 ✣ 3 = ?

A) 18
B) 20
C) 22
D) 24
E) 26

5. I. 6 ✤ 4 = 6
II. 8 ✤ 4 = 12
III. 15 ✤ 9 = 18
IV. 14 ✤ 8 = ?

A) 36
B) 30
C) 24
D) 18
E) 12

6. I. 12 ✤ 7 = 76
II. 3 ✤ 9 = 48
III. 8 ✤ 5 = 52
IV. 7 ✤ 11 = ?

A) 56
B) 64
C) 72
D) 84
E) 96

7. **I.** 8 ✣ 16 = 32
II. 9 ✣ 7 = 25
III. 5 ✣ 13 = 23
IV. 11 ✣ 4 = ?

A) 23
B) 24
C) 25
D) 26
E) 27

8. **I.** 11 ✦ 12 = 35
II. 9 ✦ 4 = 17
III. 8 ✦ 14 = 36
IV. 17 ✦ 2 = ?

A) 17
B) 18
C) 19
D) 20
E) 21

9. **I.** 26 ✧ 7 = 5
II. 18 ✧ 4 = 6
III. 19 ✧ 3 = 10
IV. 24 ✧ 6 = ?

A) 6
B) 7
C) 8
D) 9
E) 10

10. **I.** 7 ★ 5 = 36
II. 2 ★ 12 = 42
III. 14 ★ 3 = 51
IV. 25 ★ 6 = ?

A) 90
B) 93
C) 96
D) 99
E) 102

11. **I.** 48 ✪ 6 = 9
II. 72 ✪ 12 = 7
III. 24 ✪ 3 = 9
IV. 45 ✪ 9 = ?

A) 6
B) 7
C) 8
D) 9
E) 10

12. **I.** 32 ✫ 4 = 16
II. 54 ✫ 9 = 12
III. 18 ✫ 6 = 6
IV. 42 ✫ 7 = ?

A) 4
B) 6
C) 8
D) 10
E) 12

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	C	B	D	D	C	D	E	A	B	A	E

1. I. 4 ✠ 8 = 8
II. 5 ✠ 17 = 8
III. 6 ✠ 23 = 13
IV. 3 ✠ 4 = ?

A) 4
B) 5
C) 6
D) 7
E) 8

2. I. 16 ✡ 6 = 52
II. 5 ✡ 8 = 69
III. 6 ✡ 7 = 55
IV. 13 ✡ 5 = ?

A) 36
B) 38
C) 40
D) 42
E) 44

3. I. 7 ✢ 5 = 24
II. 9 ✢ 8 = 17
III. 4 ✢ 2 = 12
IV. 6 ✢ 3 = ?

A) 24
B) 25
C) 26
D) 27
E) 28

4. I. 4 ✣ 5 = 69
II. 3 ✣ 42 = 69
III. 2 ✣ 16 = 24
IV. 5 ✣ 4 = ?

A) 129
B) 117
C) 99
D) 83
E) 71

5. I. 26 ✤ 4 = 10
II. 49 ✤ 5 = 24
III. 20 ✤ 4 = 4
IV. 8 ✤ 2 = ?

A) 3
B) 4
C) 5
D) 6
E) 7

6. I. 29 ✤ 3 = 2
II. 16 ✤ 1 = 15
III. 84 ✤ 4 = 20
IV. 142 ✤ 5 = ?

A) 13
B) 15
C) 17
D) 19
E) 21

7. **I.** 4 ✣ 3 = 25
II. 6 ✣ 8 = 100
III. 9 ✣ 5 = 106
IV. 12 ✣ 3 = ?

A) 149
B) 150
C) 151
D) 152
E) 153

8. **I.** 17 ✦ 2 = 25
II. 14 ✦ 3 = 41
III. 6 ✦ 2 = 14
IV. 26 ✦ 4 = ?

A) 86
B) 88
C) 90
D) 92
E) 94

9. **I.** 3 ✧ 2 = 17
II. 6 ✧ 4 = 100
III. 5 ✧ 3 = 52
IV. 7 ✧ 3 = ?

A) 75
B) 76
C) 77
D) 78
E) 79

10. **I.** 5 ★ 94 = 31
II. 4 ★ 39 = 25
III. 6 ★ 127 = 89
IV. 3 ★ 12 = ?

A) 13
B) 15
C) 17
D) 19
E) 21

11. **I.** 6 ✪ 3 = 39
II. 2 ✪ 17 = 21
III. 5 ✪ 28 = 53
IV. 3 ✪ 9 = ?

A) 15
B) 18
C) 21
D) 24
E) 27

12. **I.** 27 ☆ 6 = 9
II. 13 ☆ 7 = 36
III. 54 ☆ 9 = 27
IV. 98 ☆ 12 = ?

A) 26
B) 32
C) 38
D) 42
E) 46

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	B	D	A	B	C	E	C	B	B	B	E

1. **I.** 4 ✿ 3 = 5
II. 8 ✿ 5 = 27
III. 12 ✿ 7 = 65
IV. 9 ✿ 6 = ?

A) 31
B) 34
C) 36
D) 38
E) 39

2. **I.** 4 ✘ 2 = 60
II. 3 ✘ 5 = 2
III. 5 ✘ 11 = 4
IV. 6 ✘ 14 = ?

A) 16
B) 18
C) 20
D) 22
E) 24

3. **I.** 8 ✔ 4 = 2
II. 27 ✔ 13 = 7
III. 18 ✔ 8 = 5
IV. 9 ✔ 5 = ?

A) 1
B) 2
C) 3
D) 4
E) 5

4. **I.** 9 ✘ 3 = 30
II. 12 ✘ 4 = 40
III. 8 ✘ 5 = 29
IV. 6 ✘ 2 = ?

A) 10
B) 17
C) 18
D) 20
E) 21

5. **I.** 12 ❂ 7 = 29
II. 15 ❂ 6 = 39
III. 9 ❂ 7 = 20
IV. 16 ❂ 8 = ?

A) 36
B) 37
C) 38
D) 39
E) 40

6. **I.** 12 ❤ (4❂7) = 40
II. 8 ❂ (9❤ 2) = 88
III. 15 ❤ (3❂ 5) = 30
IV. 72 ❤ (8❂ 4) = ?

A) 96
B) 98
C) 100
D) 102
E) 104

7. **I.** 14 ✏ 2 = 32
II. 6 ✏ 7 = 26
III. 9 ✏ 14 = 46
IV. 10 ✏ 4 = ?

A) 24
B) 26
C) 28
D) 30
E) 32

8. **I.** 30 ⇨ 5 = 8
II. 40 ⇨ 8 = 7
III. 24 ⇨ 6 = 6
IV. 32 ⇨ 8 = ?

A) 4
B) 6
C) 8
D) 10
E) 12

9. **I.** 7 ➾ 5 = 36
II. 12 ➾ 4 = 48
III. 8 ➾ 11 = 57
IV. 6 ➾ 9 = ?

A) 39
B) 42
C) 45
D) 48
E) 51

10. **I.** 42 ✓ 6 = 5
II. 64 ✓ 16 = 2
III. 36 ✓ 9 = 2
IV. 28 ✓ 4 = ?

A) 5
B) 6
C) 8
D) 10
E) 12

11. **I.** 4 ✔ 8 = 16
II. 6 ✔ 9 = 21
III. 7 ✔ 5 = 19
IV. 9 ✔ 7 = ?

A) 21
B) 22
C) 23
D) 24
E) 25

12 **I.** 9 ✘ 4 = 17
II. 11 ✘ 7 = 25
III. 12 ✘ 3 = 18
IV. 6 ✘ 14 = ?

A) 28
B) 30
C) 32
D) 34
E) 36

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	B	D	E	E	C	B	C	A	E	D

1. I. 21 ✙ 3 = 6
II. 42 ✙ 12 = 10
III. 28 ✙ 7 = 7
IV. 36 ✙ 27 = ?

A) 2
B) 3
C) 4
D) 5
E) 6

2. I. 17 ⇧ 9 = 16
II. 7 ⇧ 2 = 10
III. 24 ⇧ 16 = 16
IV. 19 ⇧ 8 = ?

A) 22
B) 23
C) 24
D) 25
E) 26

3. I. 17 ✯ 15 = 36
II. 9 ✯ 4 = 23
III. 12 ✯ 13 = 23
IV. 16 ✯ 8 = ?

A) 28
B) 32
C) 36
D) 40
E) 44

4. I. 14 ✯ 26 = 4
II. 6 ✯ 12 = 2
III. 36 ✯ 39 = 1
IV. 7 ✯ 25 = ?

A) 5
B) 6
C) 7
D) 8
E) 9

5. I. 18 ☆ 54 = 5
II. 15 ☆ 75 = 7
III. 6 ☆ 24 = 6
IV. 2 ☆ 10 = ?

A) 5
B) 6
C) 7
D) 8
E) 9

6. I. 36 ✱ 9 = 1
II. 56 ✱ 7 = 5
III. 28 ✱ 4 = 4
IV. 45 ✱ 9 = ?

A) 1
B) 2
C) 3
D) 4
E) 5

7. **I.** 9 ✲ 11 = 7
II. 5 ✲ 4 = 6
III. 13 ✲ 15 = 11
IV. 16 ✲ 9 = ?

A) 23
B) 24
C) 25
D) 26
E) 27

8. **I.** 28 ✳ 10 = 6
II. 42 ✳ 27 = 5
III. 16 ✳ 7 = 3
IV. 24 ✳ 6 = ?

A) 3
B) 4
C) 5
D) 6
E) 7

9. **I.** 4 ✶ 6 = 28
II. 3 ✶ 5 = 23
III. 6 ✶ 7 = 34
IV. 2 ✶ 8 = ?

A) 26
B) 28
C) 30
D) 32
E) 34

10. **I.** 6 ✶ 14 = 10
II. 9 ✶ 25 = 11
III. 3 ✶ 10 = 2
IV. 8 ✶ 11 = ?

A) 21
B) 22
C) 23
D) 24
E) 25

11. **I.** 3 ⊠ 4 = 11
II. 4 ⊠ 2 = 60
III. 5 ⊠ 8 = 61
IV. 4 ⊠ 8 = ?

A) 0
B) 2
C) 4
D) 6
E) 8

12. **I.** 5 ❄ 8 = 45
II. 9 ❄ 12 = 117
III. 14 ❄ 3 = 56
IV. 7 ❄ 8 = ?

A) 60
B) 63
C) 65
D) 68
E) 70

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	A	D	B	C	B	A	D	E	A	A	B

1. **I.** 4 ✔ 2 = 56
   II. 5 ✔ 7 = 90
   III. 4 ✔ 12 = 16
   IV. 3 ✔ 5 = ?

   A) 10
   B) 11
   C) 12
   D) 13
   E) 14

2. **I.** 12 ✖ 8 = 44
   II. 4 ✖ 7 = 19
   III. 16 ✖ 13 = 61
   IV. 18 ✖ 5 = ?

   A) 50
   B) 59
   C) 63
   D) 65
   E) 69

3. **I.** 8 ✧ 2 = 62
   II. 9 ✧ 5 = 76
   III. 5 ✧ 14 = 11
   IV. 12 ✧ 68 = ?

   A) 70
   B) 71
   C) 73
   D) 75
   E) 76

4. **I.** 4 ✿ (7 ☞ 6) = 52
   II. 8 ☞ (4 ✿ 3) = 20
   III. 3 ✿ (8 ☞ 5) = 39
   IV. 12 ☞ (4 ✿ 2) = ?

   A) 20
   B) 21
   C) 23
   D) 24
   E) 25

5. **I.** 4 ✉ 5 = 2
   II. 12 ✉ 3 = 30
   III. 8 ✉ 11 = 2
   IV. 22 ✉ 10 = ?

   A) 40
   B) 42
   C) 44
   D) 46
   E) 48

6. **I.** 4 ✯ 6 = $\frac{3}{2}$
   II. 2 ✯ 8 = 4
   III. 10 ✯ 4 = $\frac{2}{5}$
   IV. 12 ✯ 8 = ?

   A) $\frac{1}{2}$
   B) $\frac{1}{3}$
   C) $\frac{2}{3}$
   D) $\frac{3}{4}$
   E) $\frac{4}{5}$

7. I. $4 \circledast 3 = \frac{11}{3}$

II. $6 \circledast 4 = \frac{23}{4}$

III. $5 \circledast 3 = \frac{14}{3}$

IV. $9 \circledast 6$ = ?

A) 8

B) $\frac{25}{3}$

C) $\frac{26}{3}$

D) $\frac{53}{6}$

E) 9

8. I. $14 \bullet 2 = 8$

II. $12 \bullet 3 = 5$

III. $10 \bullet 8 = \frac{9}{4}$

IV. $a \bullet \frac{1}{b}$ = ?

A) ab B) ab + 1 C) $\frac{ab+1}{5}$ D) $\frac{ab-1}{a}$ E) $\frac{ab-1}{b}$

9. I. $4 \square \frac{1}{2} = 2$

II. $6 \square \frac{1}{3} = 3$

III. $\frac{1}{2} \square \frac{1}{3} = -\frac{5}{2}$

IV. $3 \square \frac{1}{4}$ = ?

A) –1 B) $-\frac{1}{3}$ C) 0 D) $\frac{2}{3}$ E) $\frac{1}{2}$

10. I. $4 \blacksquare 3 = \frac{7}{12}$

II. $5 \blacksquare 2 = \frac{7}{10}$

III. $3 \blacksquare 6 = \frac{1}{2}$

IV. $a \blacksquare b$ = ?

A) $\frac{a+b}{b}$ B) $\frac{a+b}{a}$ C) $\frac{a+b}{a \cdot b}$ D) $\frac{a \cdot b}{a+b}$ E) $\frac{a-b}{a \cdot b}$

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11. I. $2 \blacktriangle 4 = \frac{9}{4}$

II. $3 \blacktriangle \frac{1}{2} = 5$

III. $\frac{3}{2} \blacktriangle 2 = 2$

IV. $a \blacktriangle b$ = ?

A) $\frac{ab+1}{a}$ B) $\frac{ab+1}{b}$ C) $\frac{ab+a}{a}$ D) $\frac{ab+a}{b}$ E) $\frac{ab}{a+b}$

12. I. $2 \star 2 = 1$

II. $4 \star 12 = 3$

III. $20 \star 5 = 4$

IV. $a \star b$ = ?

A) $\frac{a \cdot b}{a+b}$ B) $\frac{a+b}{a \cdot b}$ C) $\frac{a}{a+b}$ D) $\frac{b}{a+b}$ E) $\frac{a \cdot b}{a+b+1}$

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	E	A	D	C	D	B	A	C	B	A

1. **I.** 🖶 647 = 17
II. 🖶 985 = 22
III. 🖶 746 = 17
IV. 🖶 **528 = ?**

A) 18
B) 17
C) 16
D) 15
E) 14

2. **I.** 🗍 953 = 11
II. 🗍 875 = 10
III. 🗍 432 = 5
IV. 🗍 **796 = ?**

A) 9
B) 10
C) 11
D) 12
E) 13

3. **I.** 🗑 926 = 13
II. 🗑 818 = 15
III. 🗑 549 = 10
IV. 🗑 **737 = ?**

A) 8
B) 9
C) 10
D) 11
E) 12

4. **I.** ☝ 234 = 24
II. ☝ 425 = 40
III. ☝ 623 = 36
IV. ☝ **436 = ?**

A) 64
B) 72
C) 84
D) 96
E) 108

5. **I.** ⊘ 912 = 6
II. ⊘ 823 = 3
III. ⊘ 711 = 5
IV. ⊘ **924 = ?**

A) 1
B) 2
C) 3
D) 4
E) 5

6. **I.** ⊙ 954 = 6
II. ⊙ 876 = 7
III. ⊙ 393 = 5
IV. ⊙ **429 = ?**

A) 4
B) 5
C) 6
D) 7
E) 8

7. **I.** □ 463 = 36
II. □ 264 = 24
III. □ 934 = 54
IV. □ **754 = ?**

A) 64
B) 66
C) 70
D) 72
E) 74

8. **I.** ◘ 436 = 18
II. ◘ 571 = 36
III. ◘ 932 = 29
IV. ◘ **854 = ?**

A) 38
B) 40
C) 42
D) 44
E) 46

9. **I.** & 625 = 40
II. & 873 = 45
III. & 213 = 9
IV. & **471 = ?**

A) 11
B) 12
C) 13
D) 14
E) 15

10. **I.** ⓘ 843 = 7
II. ⓘ 915 = 13
III. ⓘ 624 = 8
IV. ⓘ **736 = ?**

A) 7
B) 8
C) 9
D) 10
E) 11

11. **I.** ⊗ 4654 = 19
II. ⊗ 6872 = 23
III. ⊗ 9653 = 23
IV. ⊗ **5168 = ?**

A) 18
B) 20
C) 22
D) 24
E) 26

12. **I.** ◘ 2341 = 24
II. ◘ 5242 = 80
III. ◘ 3641 = 72
IV. ◘ **1246 = ?**

A) 42
B) 44
C) 46
D) 48
E) 50

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	B	D	B	C	B	C	D	A	D	B	D

1. I. 49 ⊞ 7 = 6
II. 56 ⊞ 8 = 3
III. 63 ⊞ 7 = 2
IV. 38 ⊞ 5 = ?

A) 4
B) 5
C) 6
D) 7
E) 8

2. I. 46 ⓘ 28 = 40
II. 52 ⓘ 19 = 19
III. 63 ⓘ 42 = 26
IV. 75 ⓘ 34 = ?

A) 43
B) 44
C) 45
D) 46
E) 47

3. I. 98 ⚓ 14 = 12
II. 76 ⚓ 91 = 3
III. 84 ⚓ 32 = 7
IV. 67 ⚓ 82 = ?

A) 2
B) 3
C) 4
D) 5
E) 6

4. I. 428 🂠 36 = 46
II. 832 🂠 55 = 23
III. 643 🂠 27 = 58
IV. 453 🂠 68 = ?

A) 12
B) 14
C) 16
D) 18
E) 20

5. I. 947 ≋ 53 = 12
II. 863 ≋ 74 = 6
III. 942 ≋ 28 = 5
IV. 479 ≋ 33 = ?

A) 11
B) 12
C) 13
D) 14
E) 15

6. I. 59 ✉ 47 = 9475
II. 68 ✉ 29 = 8296
III. 33 ✉ 54 = 3543
IV. 69 ✉ 23 = ?

A) 3692
B) 6239
C) 6329
D) 9236
E) 9632

7. I. 62 ♬ 34 = 87
II. 81 ♬ 43 = 97
III. 51 ♬ 33 = 66
IV. 26 ♬ 71 = ?

A) 85
B) 86
C) 87
D) 88
E) 89

8. I. 64 ϒ 23 = 624
II. 83 ϒ 74 = 2824
III. 46 ϒ 27 = 1424
IV. 92 ϒ 63 = ?

A) 168
B) 1818
C) 1820
D) 2020
E) 2222

9. I. 27 ▦ 36 = 35
II. 19 ▦ 69 = 38
III. 48 ▦ 27 = 54
IV. 56 ▦ 58 = ?

A) 28
B) 29
C) 30
D) 31
E) 32

10. I. 23 🏆 92 = 57
II. 14 🏆 41 = 53
III. 32 🏆 32 = 51
IV. 16 🏆 51 = ?

A) 54
B) 58
C) 67
D) 72
E) 74

11. I. 8 📢 12 = 67
II. 4 📢 23 = 21
III. 3 📢 34 = 16
IV. 6 📢 16 = ?

A) 42
B) 43
C) 44
D) 45
E) 46

12. I. 28 👽 6 = 94
II. 43 👽 9 = 40
III. 81 👽 2 = 79
IV. 16 👽 7 = ?

A) 40
B) 41
C) 42
D) 43
E) 44

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	E	B	A	D	D	D	B	D	E	B	C

1. I. 46 ⇨ 28 = 40
II. 57 ⇨ 29 = 53
III. 36 ⇨ 42 = 26
IV. 74 ⇨ 53 = ?

A) 42
B) 43
C) 44
D) 45
E) 46

2. I. 43 ⇦ 26 = 56
II. 92 ⇦ 17 = 88
III. 63 ⇦ 51 = 54
IV. 14 ⇦ 36 = ?

A) 35
B) 40
C) 45
D) 50
E) 55

3. I. 91 ⇨ 73 = 12
II. 62 ⇨ 52 = 7
III. 84 ⇨ 71 = 10
IV. 73 ⇨ 62 = ?

A) 5
B) 6
C) 7
D) 8
E) 9

4. I. 45 ⇪ 32 = 14
II. 68 ⇪ 25 = 38
III. 94 ⇪ 35 = 21
IV. 83 ⇪ 43 = ?

A) 10
B) 12
C) 14
D) 16
E) 18

5. I. 92 ➦ 41 = 10
II. 83 ➦ 52 = 8
III. 73 ➦ 21 = 5
IV. 62 ➦ 43 = ?

A) 1
B) 2
C) 3
D) 4
E) 5

6. I. ⓿ 973 = 1610
II. ⓿ 752 = 127
III. ⓿ 643 = 107
IV. ⓿ 859 = ?

A) 1215
B) 1312
C) 1314
D) 1413
E) 1414

7. I. □ 243 = 812
II. □ 641 = 244
III. □ 352 = 1510
IV. □ 432 = ?

A) 124
B) 126
C) 128
D) 130
E) 132

8. I. ☾ 952 = 43
II. ☾ 841 = 43
III. ☾ 762 = 14
IV. ☾ 643 = ?

A) 20
B) 21
C) 22
D) 23
E) 24

9. I. ※ 269 = 17
II. ※ 178 = 9
III. ※ 432 = 41
IV. ※ 346 = ?

A) 22
B) 24
C) 26
D) 28
E) 30

10. I. ▣ 427 = 31
II. ▣ 913 = 22
III. ▣ 864 = 72
IV. ▣ 273 = ?

A) 75
B) 74
C) 73
D) 72
E) 71

11. I. 198 ⓢ 325 = 8
II. 684 ⓢ 214 = 11
III. 973 ⓢ 356 = 5
IV. 875 ⓢ 412 = ?

A) 9
B) 10
C) 11
D) 12
E) 13

12. I. 421 ☊ 367 = 23
II. 834 ☊ 215 = 23
III. 243 ☊ 174 = 21
IV. 426 ☊ 613 = ?

A) 19
B) 20
C) 21
D) 22
E) 23

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	D	B	E	C	B	B	D	A	E	D

1. I. 12 ✗ 30 = 36
   II. 40 ✗ 21 = 49
   III. 22 ✗ 13 = 64
   IV. 31 ✗ 11 = ?

   A) 9
   B) 16
   C) 25
   D) 36
   E) 49

2. I. 43 ✚ 14 = 24
   II. 52 ✚ 23 = 24
   III. 90 ✚ 53 = 34
   IV. 71 ✚ 42 = ?

   A) 22
   B) 24
   C) 26
   D) 28
   E) 30

3. I. 31 🎓 43 = 65
   II. 21 🎓 14 = 34
   III. 42 🎓 21 = 45
   IV. 33 🎓 14 = ?

   A) 57
   B) 58
   C) 59
   D) 60
   E) 61

4. I. 212 ⚽ 341 = 48
   II. 423 ⚽ 122 = 96
   III. 511 ⚽ 312 = 30
   IV. 124 ⚽ 322 = ?

   A) 64
   B) 72
   C) 84
   D) 96
   E) 108

5. I. 122 📚 301 = 20
   II. 104 📚 431 = 40
   III. 243 📚 910 = 90
   IV. 831 📚 231 = ?

   A) 72
   B) 64
   C) 54
   D) 48
   E) 36

6. I. ✎ 485 = 27
   II. ✎ 649 = 15
   III. ✎ 321 = 5
   IV. ✎ 748 = ?

   A) 16
   B) 18
   C) 20
   D) 22
   E) 24

7. **I.** ☾ 943 = 133
II. ☾ 586 = 136
III. ☾ 675 = 135
IV. ☾ **349 = ?**

A) 39
B) 79
C) 89
D) 109
E) 129

8. **I.** □ 456 = 245
II. □ 832 = 163
III. □ 271 = 27
IV. □ **694 = ?**

A) 218
B) 249
C) 266
D) 289
E) 298

9. **I.** ○ 4751 = 1754
II. ○ 6894 = 4896
III. ○ 7352 = 2357
IV. ○ **4526 = ?**

A) 2456
B) 2654
C) 5624
D) 6425
E) 6524

10. **I.** ⊙ 8432 = 26
II. ⊙ 5763 = 17
III. ⊙ 4928 = 20
IV. ⊙ **6543 = ?**

A) 12
B) 14
C) 16
D) 18
E) 20

11. **I.** ◈ 9454 = 16
II. ◈ 8267 = 44
III. ◈ 5436 = 18
IV. ◈ **6938 = ?**

A) 20
B) 21
C) 22
D) 23
E) 24

12. **I.** ☝ 9874 = 6
II. ☝ 6842 = 8
III. ☝ 6231 = 4
IV. ☝ **7849 = ?**

A) 2
B) 3
C) 4
D) 5
E) 6

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	D	E	D	A	C	B	B	E	D	B	A

1. **I.** ✂ 9473 = 9
II. ✂ 8164 = 9
III. ✂ 7521 = 3
IV. ✂ **4284 = ?**

A) 4
B) 5
C) 6
D) 7
E) 8

2. **I.** ⚚ 4257 = 43
II. ⚚ 6248 = 44
III. ⚚ 5964 = 69
IV. ⚚ **3693 = ?**

A) 43
B) 45
C) 47
D) 49
E) 51

3. **I.** ▣ 9251 = 28
II. ▣ 8362 = 20
III. ▣ 9463 = 15
IV. ▣ **7294 = ?**

A) 25
B) 30
C) 35
D) 40
E) 45

4. **I.** ⊠ 9436 = 18
II. ⊠ 8643 = 36
III. ⊠ 5764 = 11
IV. ⊠ **4856 = ?**

A) 2
B) 8
C) 14
D) 26
E) 38

5. **I.** ✎ 9652 = 44
II. ✎ 8321 = 62
III. ✎ 4729 = 18
IV. ✎ **6758 = ?**

A) 9
B) 10
C) 11
D) 12
E) 13

6. **I.** ☑ 4314 = 57
II. ☑ 1927 = 46
III. ☑ 2315 = 38
IV. ☑ **4229 = ?**

A) 67
B) 68
C) 69
D) 70
E) 71

7. **I.** ⁂ 1262 = 128
II. ⁂ 3697 = 376
III. ⁂ 6285 = 633
IV. ⁂ 4533 = ?

A) 453
B) 454
C) 455
D) 456
E) 457

8. **I.** 74 ☼ 46 = 110
II. 93 ☼ 28 = 120
III. 52 ☼ 84 = 84
IV. 46 ☼ 34 = ?

A) 56
B) 70
C) 84
D) 104
E) 118

9. **I.** 99 ⎙ 42 = 3
II. 79 ⎙ 53 = 2
III. 87 ⎙ 12 = 5
IV. 48 ⎙ 22 = ?

A) 2
B) 3
C) 4
D) 5
E) 6

10. **I.** 49 ⌧ 34 = 3
II. 58 ⌧ 42 = 5
III. 84 ⌧ 44 = 2
IV. 69 ⌧ 36 = ?

A) 2
B) 3
C) 4
D) 5
E) 6

11. **I.** 91 ⌂ 42 = 4
II. 84 ⌂ 21 = 4
III. 62 ⌂ 95 = 1
IV. 71 ⌂ 85 = ?

A) 1
B) 2
C) 3
D) 4
E) 5

12. **I.** 82 ✔ 91 = 13
II. 63 ✔ 62 = 5
III. 42 ✔ 81 = 10
IV. 51 ✔ 71 = ?

A) 2
B) 8
C) 9
D) 12
E) 13

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	A	A	A	E	D	B	B	B	B	D

1. **I.** 34 ➤ 26 = 30
   II. 28 ➤ 19 = 40
   III. 53 ➤ 24 = 28
   IV. 17 ➤ 13 = ?

   A) 20
   B) 22
   C) 24
   D) 26
   E) 28

2. **I.** ✳ 726 = 20
   II. ✳ 275 = 19
   III. ✳ 396 = 33
   IV. ✳ **876 = ?**

   A) 61
   B) 62
   C) 64
   D) 65
   E) 66

3. **I.** 18 @ 14 = 95, 84, 12
   II. 17 @ 3 = 83, 73, 42
   III. 23 @ 8 = 58, 68 45
   IV. 33 @ 12 = ?, ?, ?

   A) 63, 64, 43
   B) 64, 64, 65
   C) 63 , 92, 63
   D) 64, 63, 64
   E) 65, 64, 64

4. **I.** ▲ 927 → 4
   II. ● 139 → 36
   III. ▲ 725 → 4
   IV. ● 492 → 26
   V. ▲(● 989) = ?

   A) 1
   B) 2
   C) 3
   D) 4
   E) 5

5. **I.** ✌ 64 = 10 ✿ 92 = 7
   II. ✌ 82 = 10 ✿ 61 = 5
   III. ✌ 53 = 8 ✿ 83 = 5
   IV. (✌ 76) + (✿ 30) – (✌ 52) = ?

   A) 9
   B) 10
   C) 11
   D) 12
   E) 13

6. **I.** 18 ✗ = 9 17 © = 6
   II. 29 ✗ = 11 24 © = 2
   III. [(84✗)©] + (47✗) = ?

   A) 10
   B) 11
   C) 12
   D) 13
   E) 14

7. I. 87 ✱ 39 = 27
II. 43 ✱ 66 = 19
III. 57 ✱ 48 = 24
IV. 19 ✱ 29 = ?

A) 20
B) 21
C) 22
D) 23
E) 24

8. I. 9856 ✱ 47 = 17
II. 8543 ✱ 16 = 13
III. 6567 ✱ 25 = 17
IV. 4916 ✱ 12 = ?

A) 17
B) 18
C) 19
D) 20
E) 21

9. I. 3 ❤ 2 = 5
II. 4 ❤ 8 = 3
III. 12 ❤ 15 = 9
IV. 17 ❤ 9 = ?

A) 8
B) 9
C) 10
D) 11
E) 12

10. I. ● 815 = 95 ■ 562 = 58
II. ● 906 = 96 ■ 436 = 49
III. (● 812) + (■ 524) = ?

A) 140
B) 142
C) 144
D) 146
E) 148

11. I. 2 ✪ → 4, 8, 16
II. 3 ✪ → 9, 27, 24
III. 4 ✪ → 16, 64, 32
IV. 5 ✪ → ?, ?, ?

A) 25, 20, 45
B) 20, 25, 40
C) 30, 125, 45
D) 25, 125, 40
E) 40, 25, 125

12. I. 43 ☆ 12 = 20
II. 72 ☆ 45 = 12
III. 68 ☆ 90 = 19
IV. 96 ☆ 26 = ?

A) 62
B) 68
C) 74
D) 77
E) 79

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	C	C	A	C	B	A	A	E	D	D

1. I. $\frac{1}{2}\Delta\frac{7}{2}=\frac{4}{3}$

II. $\frac{1}{2}\Delta\frac{3}{2}=2$

III. $\frac{1}{3}\Delta\frac{2}{3}=3$

IV. $\mathbf{\frac{2}{a}\Delta b = ?}$

A) $\frac{2+ab}{ab-2}$ B) $\frac{ab-2}{2+ab}$ C) $\frac{2+ab}{ab}$ D) $\frac{ab}{ab+2}$ E) $\frac{2-ab}{ab+2}$

2. I. $2 * 4 = \frac{4}{3}$

II. $1 * 2 = \frac{2}{3}$

III. $4 * 4 = 2$

IV. $\mathbf{\frac{2}{x} * \frac{y}{2} = ?}$

A) $\frac{2x}{4+xy}$ B) $\frac{-2y}{4+xy}$ C) $\frac{2y}{4+xy}$ D) $\frac{4-xy}{2x}$ E) $\frac{4+xy}{2y}$

3. I. $a \square b = \frac{2(a \blacktriangle b)-3}{2}$

II. $a \blacktriangle b = a \Delta b - a$

III. $a \Delta b = a \cdot b - b$

IV. $2(3 \square 5) + (6 \blacktriangle 8) - (6 \Delta 9) = ?$

A) –4 B) –2 C) 0 D) 2 E) 4

4. I. $a \blacksquare b = 2(a \bigcirc b) - 3$

II. $a \bigcirc b = (a \blacktriangledown b) + 8$

III. $a \blacktriangledown b = a^2 + b$

IV. $2(2 \blacksquare 3) + 3(3 \bigcirc 3) - 2(4 \blacktriangledown 12) = ?$

A) 58 B) 56 C) 32 D) 50 E) 48

5. I. $a \bigcirc b = 2(a \bigstar b) - 2$

II. $a \bigstar b = a \circledast b - a$

III. $a \circledast b = \frac{a \cdot b}{a + b}$

IV. $(3 \bigcirc 6) + (6 \bigstar 6) = ?$

A) –7 B) –4 C) 0 D) 4 E) 7

6. I. $a \ast b = (a \bullet b) + a^2 + b$

II. $a \bullet b = (a \Delta b) + 2 \cdot a + b^2$

III. $a \Delta b = 3 \cdot a^2 - b^2$

IV. $(3 \ast 4) - (2 \bullet 3) = ?$

A) 26 B) 30 C) 32 D) 36 E) 46

7. I. a ✱ b = (a ● b) + a

II. a ● b = (a ◆ b) + a·b

III. a ◆ b = a·b – (a + b)

IV. (8 ✱ 2) + (5 ● 3) – (9 ◆ 3) = ?

A) 55 B) 45 C) 39 D) 37 E) 27

8. I. a ❑ b = (a ∆ b) + 2^a + a·b

II. a ∆ b = (a ✿ b) – 3^b + a·b

III. a ✿ b = $2^a + b^2$

IV. 2(2 ❑ 3) + 3(4 ∆ 3) = ?

A) 29 B) 30 C) 31 D) 32 E) 34

9. I. a ▲ b = (a ● b) – a^2

II. a ● b = a ❖ b + $\frac{b^2}{a^2}$

III. a ❖ b = $2 \cdot b^2 + a^2$

IV. 4($\sqrt{2}$ ▲ 4) – 3($\sqrt{5}$ ● $\sqrt{10}$) = ?

A) 78 B) 79 C) 80 D) 81 E) 82

10. I. a ✶ b = (a ❍ b) + 3·b

II. a ❍ b = a ☆ b + 2·a

III. a ☆ b = 2·a + 2·b – a·b

IV. (3 ✶ 2) = ?

A) 16 B) 18 C) 20 D) 24 E) 26

11. I. ●4117 = 11

II. ●3538 = 39

III. ●3842 = 32

IV. ●4781 = ?

A) 34 B) 35 C) 36 D) 37 E) 38

12. I. 5678 ∆ 4123 = 16

II. 8732 ∆ 7521 = 5

III. 7825 ∆ 3724 = 6

IV. 9869 ∆ 7754 = ?

A) 10 B) 9 C) 8 D) 7 E) 6

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	C	C	A	A	B	D	E	B	A	C	B

1. **I.** 52 ♬ 41 = 18
II. 87 ♬ 42 = 5
III. 97 ♬ 85 = 13
IV. 63 ♬ 71 = ?

A) 45
B) 46
C) 47
D) 48
E) 49

2. **I.** 25 ϒ 17 = 30
II. 85 ϒ 35 = 42
III. 17 ϒ 26 = 32
IV. 68 ϒ 12 = ?

A) 32
B) 34
C) 36
D) 38
E) 40

3. **I.** 87 ▤ 58 = 16
II. 47 ▤ 25 = 18
III. 39 ▤ 12 = 25
IV. 96 ▤ 73 = ?

A) 28
B) 29
C) 31
D) 32
E) 33

4. **I.** 18 ♆ 28 = 42
II. 38 ♆ 59 = 20
III. 49 ♆ 19 = 40
IV. 27 ♆ 48 = ?

A) 18
B) 20
C) 22
D) 24
E) 26

5. **I.** 6 ➧ 2 = 2
II. 9 ➧ 4 = $\frac{13}{5}$
III. 6 ➧ 3 = 3
IV. $\frac{1}{a}$ **➧ b = ?**

A) $\frac{1+ab}{ab}$
B) $\frac{1-ab}{ab}$
C) $\frac{1+ab}{1-ab}$
D) $\frac{ab}{ab+1}$
E) $\frac{ab}{ab-1}$

6. **I.** 4y ✔ 2x = x + y
II. 3ω ● 4t = ω − t
III. (12 ✔ 18) x (42 ● 36) = ?

A) 60
B) 61
C) 62
D) 63
E) 64

7. **I.** $a \ast b = 3 \cdot a + 4 \cdot b$

II. a ✿ $b = 3 \cdot a - 4 \cdot b$

III. a ✹ $b = a - 11 \cdot b$

IV. **(18 ✱ 35) ✹ (27 ✿ 16) = ?**

A) 6
B) 7
C) 8
D) 9
E) 10

8. **I.** ✱ $a = a^2$

II. ✿ $b = b^3$

III. a ✹ $b = \frac{a}{4} - b$

IV. **[✱(✿2)] ✹ 8 = ?**

A) 5
B) 6
C) 7
D) 8
E) 9

9. **I.** a ✭ $b = \frac{a}{2} + \frac{b}{4}$

II. a ■ $b = \frac{a}{b} + 2$

III. a ▲ $b = \frac{1}{a} + \frac{2}{b}$

IV. $\left(\frac{1}{2} \blacktriangle \frac{1}{4}\right) \blacksquare (16 \text{ ✭ } 8) = ?$

A) 2
B) 3
C) 4
D) 5
E) 6

10. **I.** $2 \cdot a^2$ ✳ $\frac{b^2}{2} = a + b$

II. $2 \cdot a$ ✣ $2 \cdot b = \frac{a^2 + b^2}{2}$

III. **(32 ✳ 32) ✣ (16 ✣ 8) = ?**

A) 216
B) 218
C) 220
D) 222
E) 224

11. **I.** 48 ▲ 32 = 61

II. 58 ▲ 73 = 48

III. 29 ▲ 37 = 19

IV. **64 ▲ 81 = ?**

A) 28
B) 30
C) 32
D) 34
E) 36

12. **I.** $\frac{\sqrt{a}}{2} \bullet \frac{\sqrt{b}}{3} = \frac{b}{a}$

II. $a^2 \star 6 \cdot b = a + 3 \cdot b$

III. $6 \cdot a$ ✹ $3 \cdot b = a + 2 \cdot b$

IV. **(1 ● 4) ☆ (72 ✹ 36) = ?**

A) 24
B) 30
C) 36
D) 42
E) 48

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	E	B	C	A	B	D	B	B	A	A

1. **I.** a^3 ✏ $2 \cdot b^2 = a \cdot b$

II. a ✌ $b = a^2 - b^2$

III. $14 \cdot a$ ✾ $5 \cdot b = a + b$

IV. (112 ✾ 25) + (9 ✌ 8) – (27 ✏ 128) = ?

A) 5
B) 6
C) 7
D) 8
E) 9

2. **I.** $7 \cdot a$ ❤ $5 \cdot b = a \cdot b - 7$

II. a ❋ $b^2 = a \cdot b - a^2$

III. (21 ❤ 15) ❋ 81 = ?

A) 10
B) 14
C) 16
D) 18
E) 22

3. **I.** $7x$ ✘ $b^4 = x^2 + 5 \cdot b$

II. x^2 ✆ $b = x \cdot b - 13$

III. (28 ✘ 16) + (25 ✆ 7) = ?

A) 32
B) 36
C) 40
D) 44
E) 48

4. **I.** a ✰ $b = \frac{a}{4} + b^2$

II. a^2 ■ $b = a + b^2$

III. (24 ✰ 5) – (16 ■ 2) = ?

A) 19
B) 20
C) 21
D) 22
E) 23

5. **I.** a ✰ $b = 3a + b^2$

II. $2 \cdot a$ ■ $b = a + b^2 - 3$

III. a^2 ● $b^2 = a \cdot b + 8$

IV. (7 ✰ 10) ● (20 ■ 3) = ?

A) 50
B) 51
C) 52
D) 53
E) 54

6. **I.** ✪ $ab \rightarrow (a - b) \cdot 2$

II. ☆ $ab \rightarrow (a + b)^2$

III. (☆ 93 + ☆ 23) – (✪ 75 + ✪ 81) = ?

A) 150
B) 151
C) 152
D) 153
E) 154

7. I. 4·a ✱ 5·b = a·b

II. 11·a ▲ 12·b = a + b^2

III. (44 ✱ 25) ▲ 180 = ?

A) 225
B) 230
C) 235
D) 240
E) 245

8. I. a ● b = (a ⊛ b) + 13

II. a ⊛ b = (a ✳ b)·2

III. a ✳ b = a·b

IV. 9 ● 5 = ?

A) 100
B) 101
C) 102
D) 103
E) 104

9. I. 487 ➧ 563 = 124

II. 827 ➧ 453 = 434

III. 956 ➧ 279 = 723

IV. 257 ➧ 180 = ?

A) 130
B) 133
C) 135
D) 136
E) 137

10. I. ➧ 87 = 15

II. ➧ 96 = 45

III. ➧ 73 = 40

IV. ➧ 62 = ?

A) 30
B) 31
C) 32
D) 33
E) 34

11. I. 8 ✱ 3 = 121 , 25

II. 9 ✱ 5 = 196 , 16

III. 7 ✱ 6 = 169 , 1

IV. 4 ✱ 2 = ? , ?

A) 36, 4
B) 4, 35
C) 4, 36
D) 25, 4
E) 4, 25

12. I. 87345 ➧ = 9

II. 56733 ➧ = 8

III. 82134 ➧ = 6

IV. 47811 ➧ = ?

A) 3
B) 4
C) 5
D) 6
E) 7

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	B	E	E	C	B	B	D	E	C	A	E

1. **I.** 24 ✦ 8 = 5
II. 17 ✦ 12 = 11
III. 4 ✦ 13 = 8
IV. 9 ✦ 7 = ?

A) 6
B) 7
C) 8
D) 9
E) 10

2. **I.** 23 ❤ 15 = 65
II. 61 ❤ 72 = 97
III. 34 ❤ 52 = 77
IV. 90 ❤ 24 = ?

A) 68
B) 69
C) 70
D) 71
E) 72

3. **I.** 817 ✻ 495 = 154
II. 526 ✻ 322 = 223
III. 483 ✻ 257 = 872
IV. 176 ✻ 134 = ?

A) 131
B) 346
C) 437
D) 613
E) 741

4. **I.** 892 ✻ 357 = 16
II. 827 ✻ 169 = 1
III. 839 ✻ 287 = 9
IV. 927 ✻ 439 = ?

A) 2
B) 3
C) 4
D) 5
E) 6

5. **I.** ■ 8321 = 22
II. ■ 9734 = 51
III. ■ 7311 = 20
IV. ■ 8826 = ?

A) 50
B) 51
C) 52
D) 53
E) 54

6. **I.** 7 ✏ (4 ⊛ 2) = 14
II. 16 ⊛ (2 ✏ 6) = 4
III. 8 ✏ (32 ⊛ 17) = 120
IV. 16 ✏ (36 ⊛ 23) = ?

A) 201
B) 202
C) 204
D) 206
E) 208

7. I. 4 ⌧ 8 = 72

II. 3 ⌧ 12 = 39

III. 2 ⌧ 26 = 34

IV. 5 ⌧ 25 = ?

A) 120
B) 125
C) 135
D) 145
E) 150

8. I. 6 ❆ 3 = 9

II. 9 ❆ 4 = 17

III. 10 ❆ 2 = 92

IV. 12 ❆ 5 = ?

A) 18
B) 19
C) 20
D) 21
E) 22

9. I. a ✤ b = (a ❑ b) x 3

II. a ❑ b = (a ▲ b) + 7·b

III. a ▲ b = $\frac{a \cdot b}{2}$

IV. 17 ✤ 2 = ?

A) 90
B) 91
C) 92
D) 93
E) 94

10. I. a ♣ b = (a ▼ b) – 4(a ● b)

II. a ● b = a·b x 3

III. a ▼ b = a^2b x 2

IV. 7 ♣ 4 = ?

A) 55
B) 56
C) 57
D) 58
E) 59

11. I. a ✪ b = $\frac{4}{a}$ + b

II. a ○ b = a – b

III. a ▲ b = $3 \cdot a^2 - 2 \cdot b$

IV. (4 ✪ 2) + (3 ▲ 5) – (8 ○ 3) = ?

A) 15
B) 17
C) 18
D) 22
E) 23

12. I. a ❤ b = (a ❑ b) x 3

II. a ❑ b = (a ○ b) + 12

III. a ○ b = $\frac{axb}{2}$

IV. (6 ❤ 3) – (7 ❑ 2) = ?

A) 43
B) 44
C) 46
D) 47
E) 48

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	B	E	C	C	E	E	B	D	B	A	B

1. I. 43 ♣ 34 = 5
II. 27 ♣ 46 = 10
III. 56 ♣ 92 = 4
IV. 85 ♣ 43 = ?

A) 1
B) 2
C) 3
D) 4
E) 5

2. I. 8 ✿ 32 = 14
II. 9 ✿ 25 = 19
III. 3 ✿ 46 = 27
IV. 7 ✿ 92 = ?

A) 24
B) 25
C) 26
D) 27
E) 29

3. I. 2486 ✤ = 8
II. 4263 ✤ = 9
III. ⁘ 5487 = 31
IV. ⁘ 6224 = 18
V. 9873✤ + ⁘2576 – 2438✤ = ?

A) 40
B) 41
C) 42
D) 44
E) 46

4. I. 8295 ß = 2
II. 9427 ß = 27
III. 5216 ß = 3
IV. 5514 ß = ?

A) 20
B) 21
C) 22
D) 23
E) 24

5. I. 2425 ♣ 3792 = 8
II. 4532 ♣ 7825 = 8
III. 3491 ♣ 2186 = 0
IV. 8210 ♣ 9731 = ?

A) 0
B) 5
C) 8
D) 9
E) 11

6. I. ●522 = 3
II. ●493 = 4
III. ●144 = 3
IV. ●979 = ?

A) 2
B) 3
C) 4
D) 5
E) 6

7. I. ●4934 = 15

II. ●8775 = 12

III. ●7433 = 41

IV. ●5725 = ?

A) 32
B) 33
C) 34
D) 35
E) 36

8. I. ■8512 = 2

II. ■3253 = 3

III. 3761● = 3

IV. 4812● = 9

V. ■7311 + 2411● + 3871● – ■4552 = ?

A) 9
B) 11
C) 13
D) 15
E) 17

9. I. 243▲ = 27

II. 465▲ = 51

III. ✥423 = 23

IV. ✥642 = 22

V. ★352 = 70

VI. ★282 = 56

VII. 183▲ + ✥754 + ★123 = ?

A) 80
B) 81
C) 82
D) 83
E) 84

10. I. $3 \Delta 6 = 1$

II. $7 \Delta 2 = 7$

III. $28 \Delta 8 = 7$

IV. $\frac{3a}{4} \Delta \frac{2}{b} = ?$

A) $\frac{4ab}{3}$ B) $\frac{3ab}{2}$ C) $\frac{ab}{4}$ D) $\frac{3ab}{4}$ E) $\frac{3ab}{8}$

11. I. 26291 = 4

II. 13687 = 5

III. 98765 = 7

IV. 3a8b7 = 4

V. a + b = ?

A) 1
B) 2
C) 3
D) 4
E) 5

12. I. $3 \square 4 = \frac{13}{4}$

II. $7 \square 9 = \frac{64}{9}$

III. $4 \square 6 = \frac{25}{6}$

IV. $\frac{1}{a} \square b = ?$

A) $\frac{ab+1}{b}$ B) $\frac{a+b}{ab}$ C) $\frac{ab}{a+b}$ D) $\frac{ab+1}{a}$ E) $\frac{ab}{a+b+1}$

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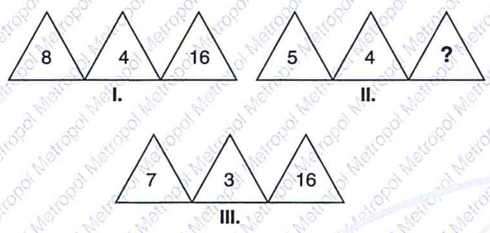
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	B	E	A	D	D	A	A	B	D	B	B

BÖLÜM
05
CHAPTER

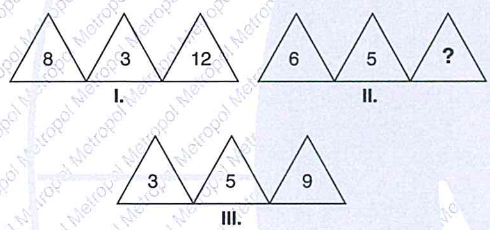
SAYI ŞEKİL İLİŞKİLERİ
NUMBER FIGURE RELATIONS

1.



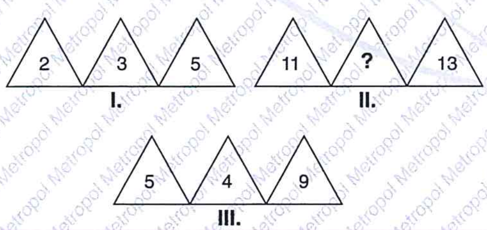
A) 16 B) 12 C) 9 D) 3 E) 1

2.



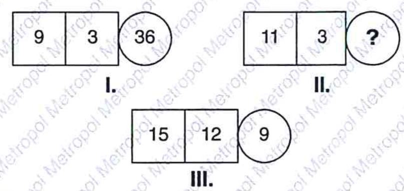
A) 20 B) 15 C) 12 D) 10 E) 9

3.



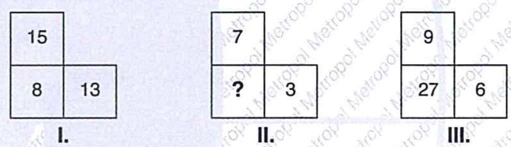
A) 1 B) 2 C) 6 D) 12 E) 14

4.



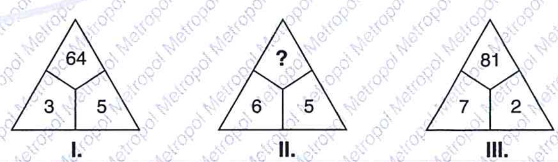
A) 72 B) 64 C) 42 D) 27 E) 14

5.



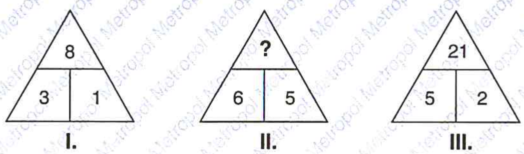
A) 1 B) 16 C) 48 D) 64 E) 81

6.



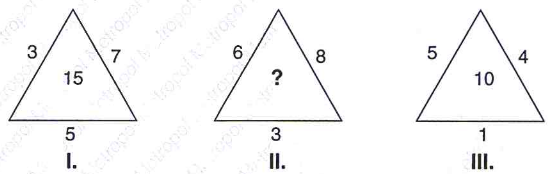
A) 30 B) 64 C) 91 D) 110 E) 121

7.



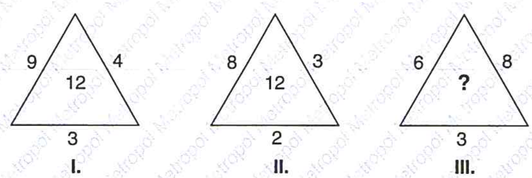
A) 8 B) 11 C) 12 D) 14 E) 18

8.



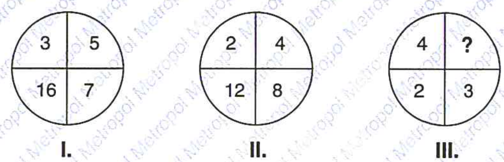
A) 8 B) 17 C) 20 D) 29 E) 32

9.



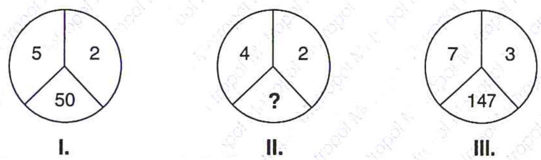
A) 39 B) 22 C) 18 D) 16 E) 3

10.



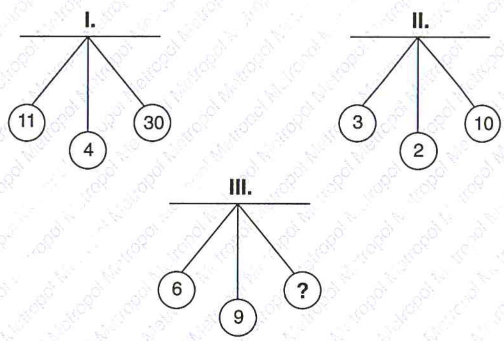
A) 1 B) 2 C) 8 D) 10 E) 12

11.



A) 23 B) 32 C) 36 D) 37 E) 42

12.

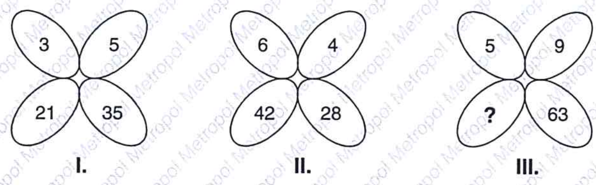


A) 10 B) 15 C) 20 D) 30 E) 42

YANITLAR / ANSWERS

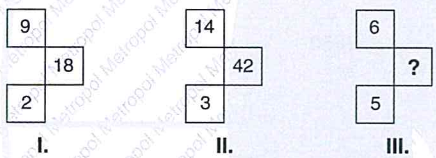
1	2	3	4	5	6	7	8	9	10	11	12
E	C	B	B	D	E	B	B	D	D	B	D

1.



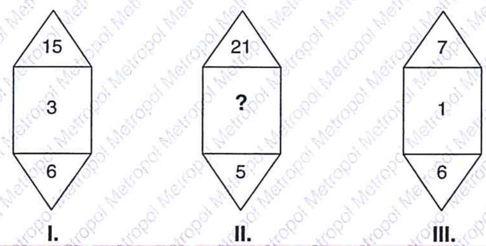
A) 16 B) 23 C) 32 D) 35 E) 50

2.



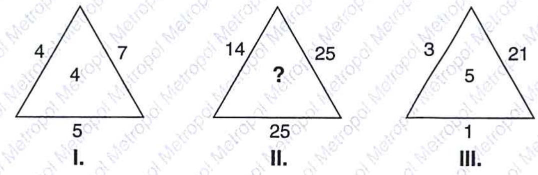
A) 11 B) 17 C) 25 D) 30 E) 36

3.



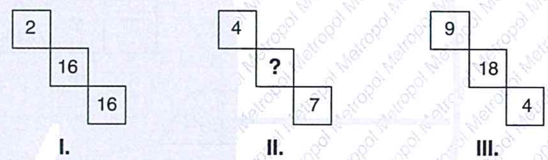
A) 49 B) 16 C) 11 D) 4 E) 2

4.



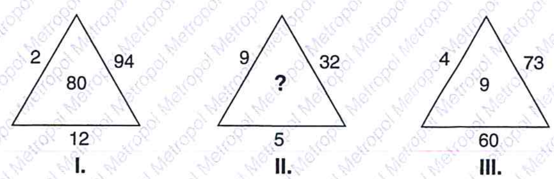
A) 1 B) 3 C) 5 D) 8 E) 12

5.



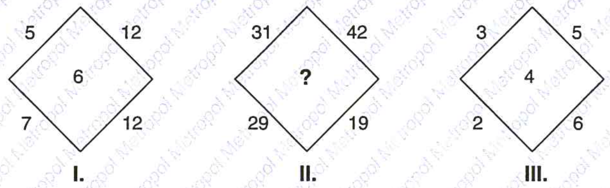
A) 14 B) 17 C) 18 D) 19 E) 20

6.



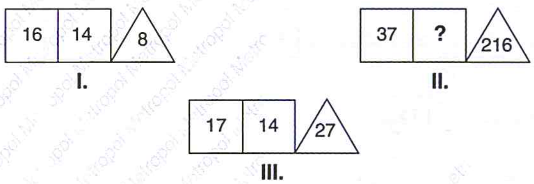
A) 64 B) 33 C) 21 D) 19 E) 18

7.



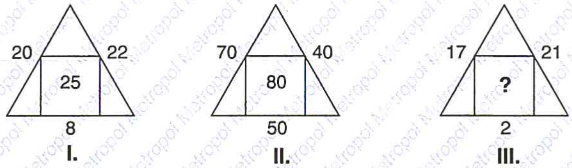
A) 8 B) 11 C) 12 D) 14 E) 18

8.



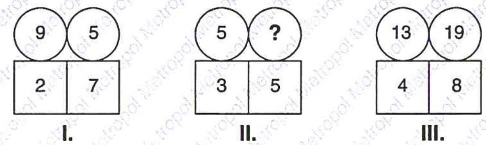
A) 24 B) 31 C) 42 D) 53 E) 81

9.



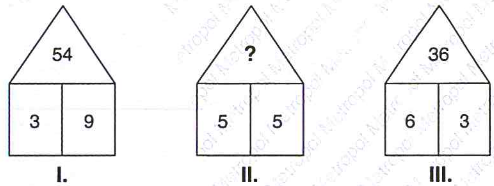
A) 64 B) 43 C) 20 D) 13 E) 9

10.



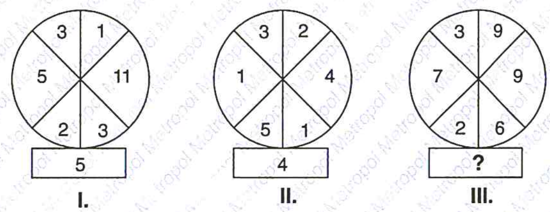
A) 10 B) 12 C) 16 D) 21 E) 26

11.



A) 25 B) 50 C) 75 D) 100 E) 125

12.

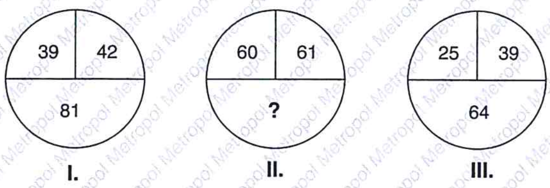


A) 2 B) 3 C) 6 D) 9 E) 7

YANITLAR / ANSWERS

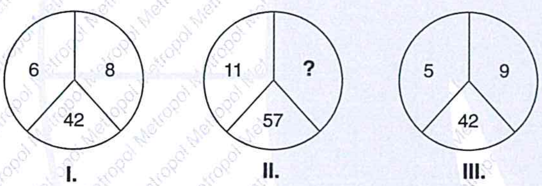
1	2	3	4	5	6	7	8	9	10	11	12
D	D	D	D	A	E	B	B	C	A	B	C

1.



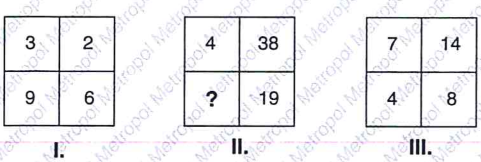
A) 53 B) 90 C) 121 D) 125 E) 169

2.



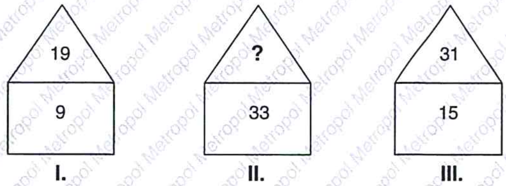
A) 8 B) 13 C) 35 D) 42 E) 53

3.



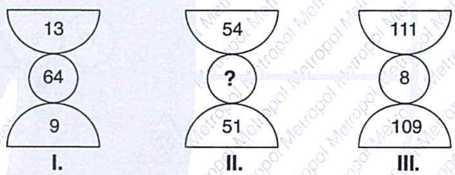
A) 2 B) 4 C) 6 D) 7 E) 9

4.



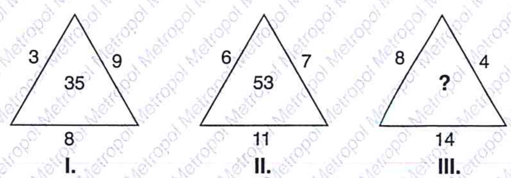
A) 67 B) 46 C) 40 D) 34 E) 29

5.



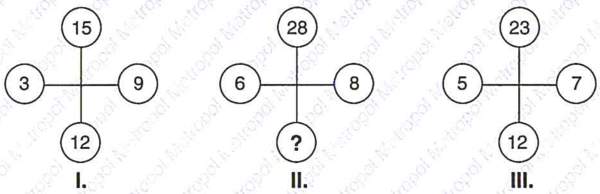
A) 13 B) 27 C) 33 D) 49 E) 63

6.



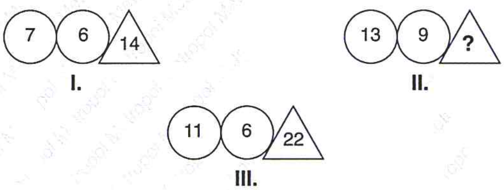
A) 72 B) 46 C) 41 D) 26 E) 16

7.



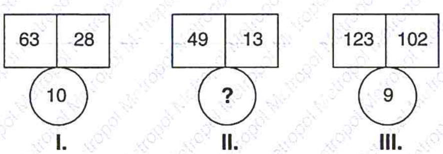
A) 63 B) 39 C) 20 D) 12 E) 11

8.



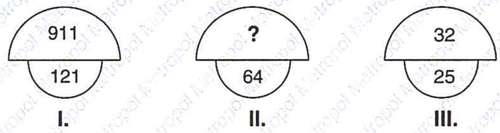
A) 66 B) 39 C) 24 D) 18 E) 12

9.



A) 6 B) 8 C) 9 D) 31 E) 62

10.



A) 9 B) 17 C) 94 D) 100 E) 163

11.

I.

3	9
2	7

II.

7	8
5	?

III.

6	8
4	8

A) 1 B) 3 C) 5 D) 6 E) 9

12.

I.

42	7
2	3

II.

56	4
2	7

III.

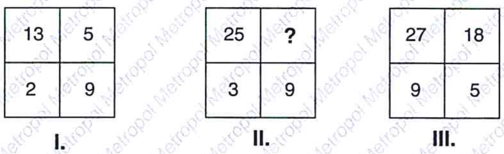
81	3
?	9

A) 1 B) 3 C) 8 D) 16 E) 21

YANITLAR / ANSWERS

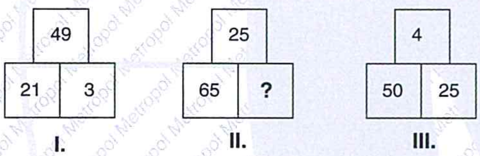
1	2	3	4	5	6	7	8	9	10	11	12
C	A	A	A	B	B	C	B	B	B	D	B

1.



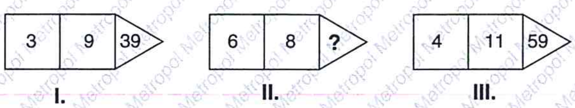
A) 2 B) 19 C) 25 D) 29 E) 46

2.



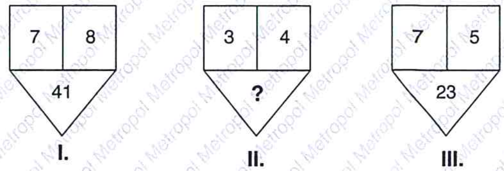
A) 5 B) 13 C) 23 D) 37 E) 49

3.



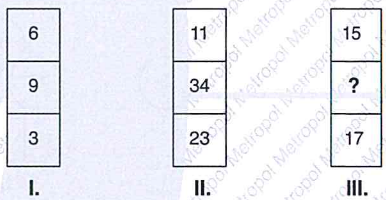
A) 27 B) 48 C) 34 D) 53 E) 62

4.



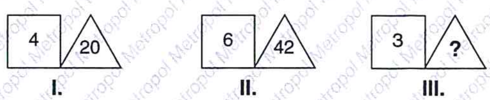
A) 5 B) 11 C) 23 D) 29 E) 31

5.



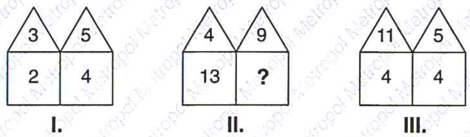
A) 32 B) 25 C) 21 D) 16 E) 2

6.



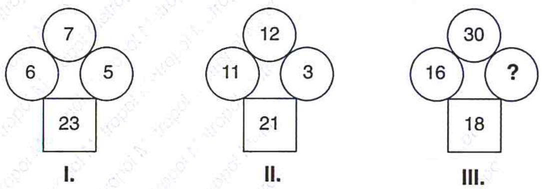
A) 8 B) 10 C) 12 D) 14 E) 16

7.



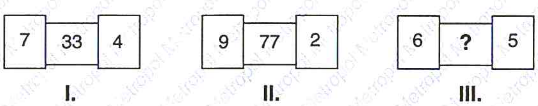
A) 1 B) 3 C) 9 D) 16 E) 23

8.



A) 1 B) 3 C) 12 D) 17 E) 22

9.



A) 55 B) 44 C) 22 D) 11 E) 1

10.

4	6	9

I.

4	?	16

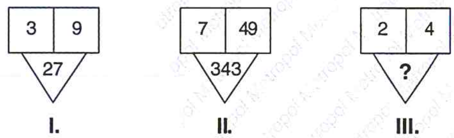
II.

3	9	27

III.

A) 2 B) 6 C) 8 D) 12 E) 16

11.



A) 8 B) 12 C) 16 D) 20 E) 23

12.

4	11
28	77

I.

3	6
?	42

II.

10	5
70	35

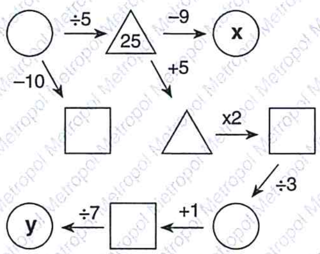
III.

A) 11 B) 17 C) 21 D) 27 E) 29

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	E	A	A	C	A	B	D	C	A	C

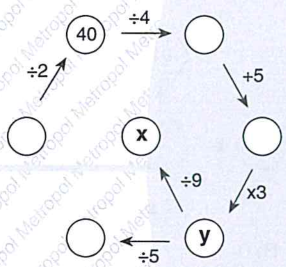
1.



⇒ x – y = ?

A) 15 B) 14 C) 13 D) 12 E) 11

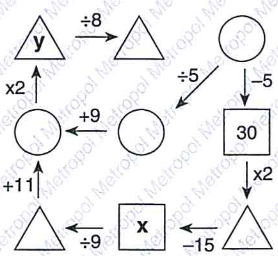
2.



⇒ y – x = ?

A) 35 B) 40 C) 45 D) 50 E) 55

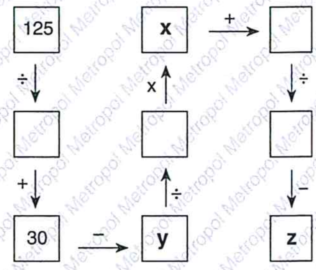
3.



⇒ x + y = ?

A) 77 B) 76 C) 75 D) 74 E) 73

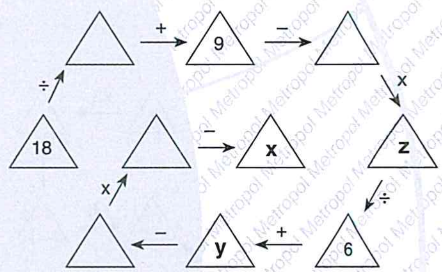
4.



⇒ x + y + z = ?

A) 48 B) 49 C) 50 D) 51 E) 52

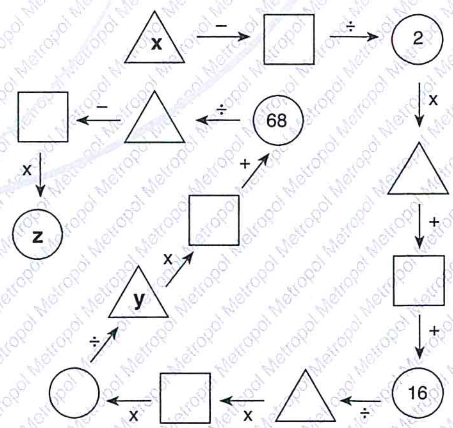
5.



⇒ x + y + z = ?

A) 36 B) 39 C) 42 D) 45 E) 48

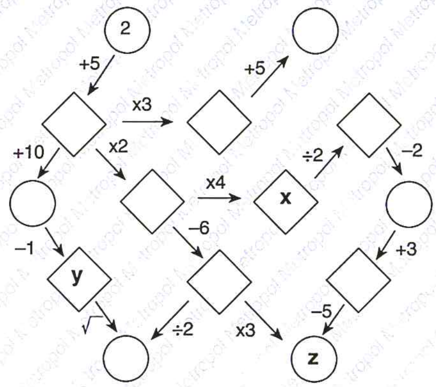
6.



⇒ x – y + z = ?

A) 40 B) 42 C) 44 D) 46 E) 48

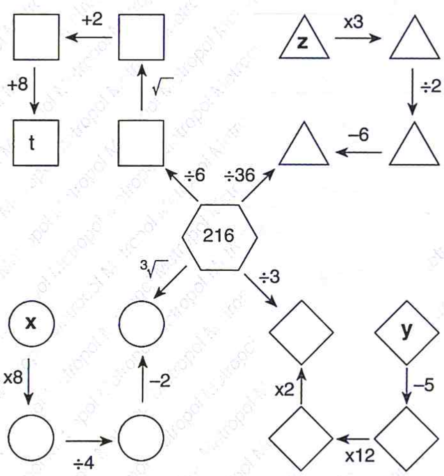
7.



$\Rightarrow x + 2y - 4z = ?$

A) –1 B) –2 C) –5 D) –8 E) –12

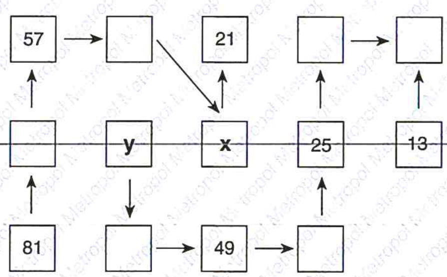
8.



$\Rightarrow \sqrt{(z+t)+(x+y)} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

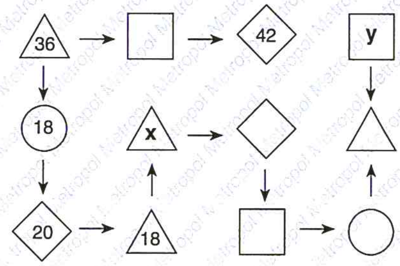
9.



$\Rightarrow y - x = ?$

A) 30 B) 35 C) 40 D) 45 E) 50

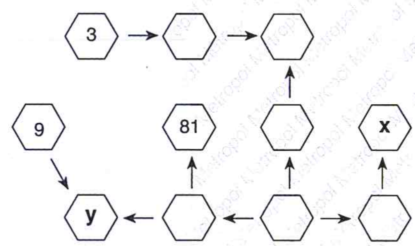
10.



$\Rightarrow x - y = ?$

A) 9 B) 8 C) 7 D) 6 E) 5

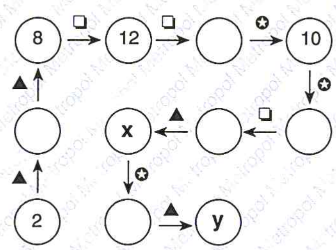
11.



$\Rightarrow x - y = ?$

A) –2 B) 0 C) 2 D) 4 E) 6

12.



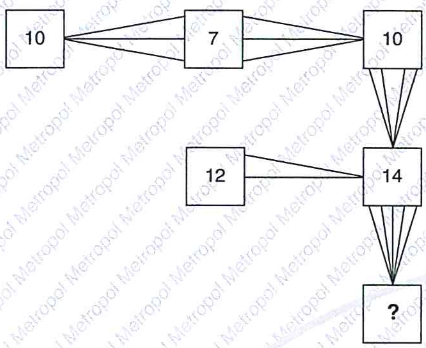
$\Rightarrow x + y = ?$

A) 32 B) 34 C) 36 D) 38 E) 40

YANITLAR / ANSWERS

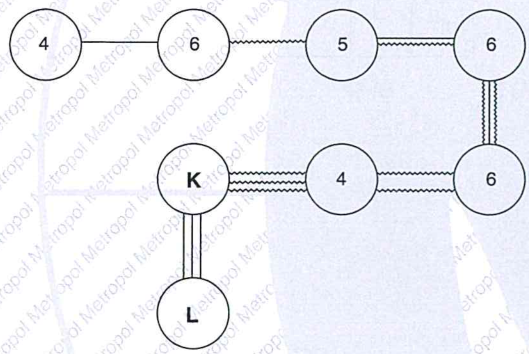
1	2	3	4	5	6	7	8	9	10	11	12
C	B	A	D	C	E	D	E	C	E	B	C

1.



A) 16 B) 17 C) 18 D) 19 E) 20

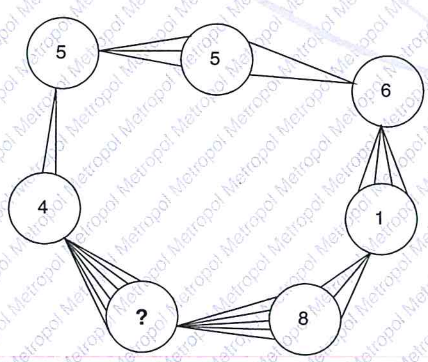
2.



⇒ K + L = ?

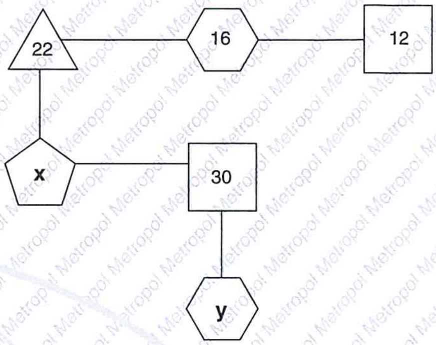
A) 6 B) 7 C) 8 D) 9 E) 10

3.



A) 0 B) 1 C) 2 D) 3 E) 4

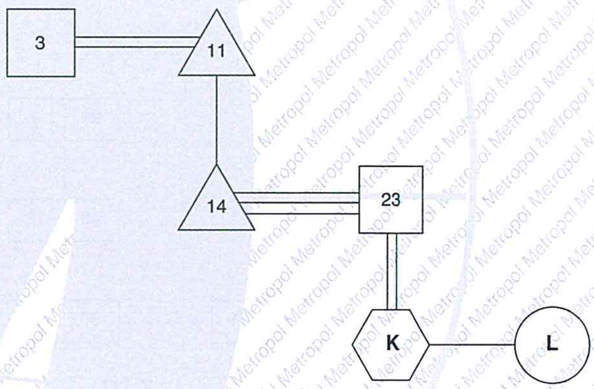
4.



⇒ x + y = ?

A) 48 B) 50 C) 55 D) 57 E) 59

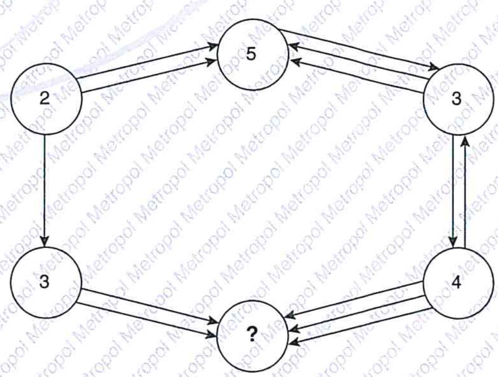
5.



⇒ K + L = ?

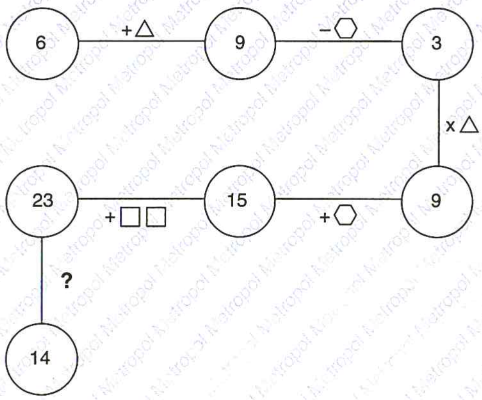
A) 58 B) 61 C) 67 D) 68 E) 71

6.



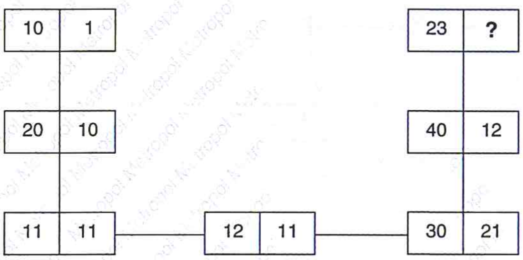
A) 4 B) 5 C) 6 D) 7 E) 8

7.



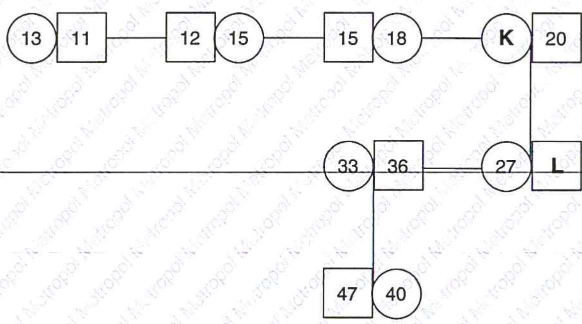
A) −⬠□ B) ÷△ C) −⬡ D) +□ E) −△△

8.



A) 18 B) 19 C) 26 D) 27 E) 30

9.



⇒ K + L = ?

A) 45 B) 47 C) 49 D) 51 E) 53

10.

I.	13	22	25	38	37	74	58	**?**
II.	16	17	26	32	62	47	102	**?**

A) 107 / 69 B) 0 / 73 C) 111 / 71 D) 102 / 71 E) 105 / 73

11.

I.	3	5	13	14	17	22
II.	7	11	27	29	35	**?**

A) 38 B) 39 C) 41 D) 43 E) 45

12.

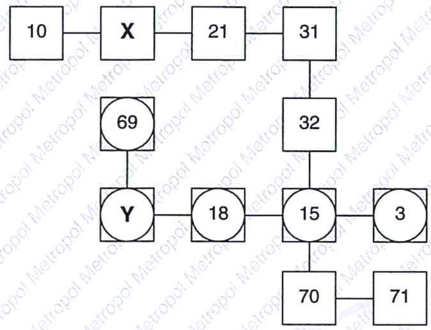
I.	II.
2	5
7	12
19	31
50	81
?	**?**

A) 131 212 B) 101 121 C) 133 203 D) 131 189 E) 123 212

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	B	E	D	C	A	E	C	D	E	A

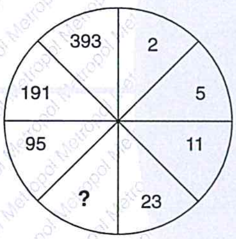
1.



⇒ **X ; Y = ?**

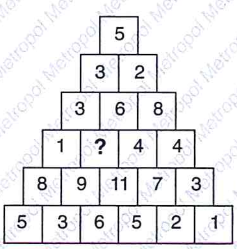
A) 11; 93
B) 2; 8
C) 15; 20
D) 81; 100
E) 4; 2

2.



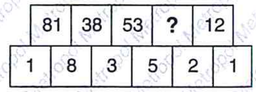
A) 35
B) 46
C) 47
D) 53
E) 62

3.



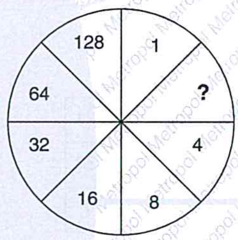
A) 1
B) 2
C) 3
D) 6
E) 9

4.



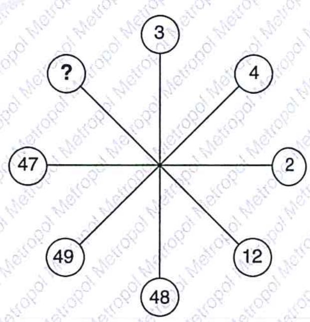
A) 1
B) 8
C) 13
D) 18
E) 25

5.



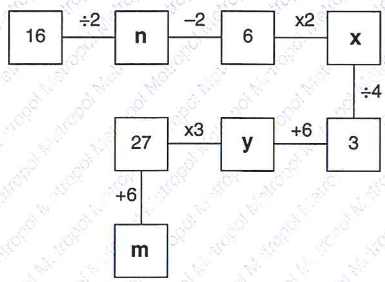
A) 2
B) 3
C) 4
D) 6
E) 8

6.



A) 35
B) 24
C) 12
D) 6
E) 3

7.



$\Rightarrow$ **m + n + x + y = ?**

A) 42 B) 52 C) 62 D) 72 E) 82

8.

12	15	21	24
			30
			?

A) 31

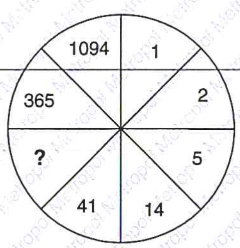
B) 32

C) 33

D) 34

E) 35

9.



A) 82 B) 111 C) 122 D) 169 E) 208

10.

35	33	38	36	41	39	?
						42
						47
				48	50	45

A) 44 B) 43 C) 37 D) 16 E) 8

11.

20	21	23	26	30	35
					?
					48

A) 28

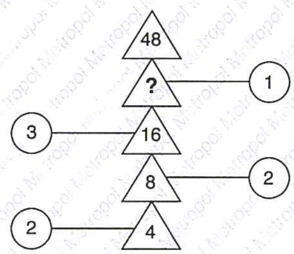
B) 33

C) 35

D) 37

E) 41

12.



A) 48 B) 34 C) 20 D) 19 E) 17

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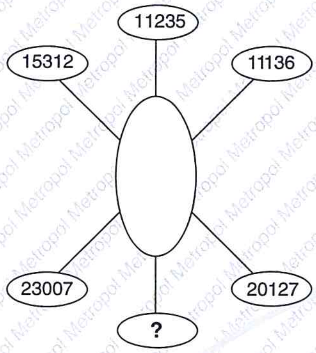
YANITLAR / ANSWERS

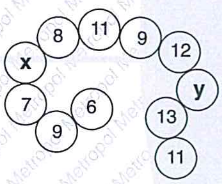
1	2	3	4	5	6	7	8	9	10	11	12
A	C	B	E	A	E	C	C	C	A	E	A

1.



A) 12382 B) 21570 C) 23118 D) 34005 E) 36842

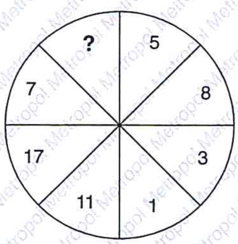
2.



⇒ x ; y = ?

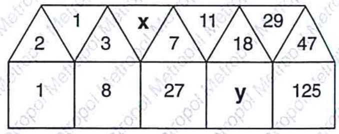
A) 7; 5 B) 14; 10 C) 10; 7 D) 10; 10 E) 9; 11

3.



A) 2 B) 3 C) 10 D) 11 E) 12

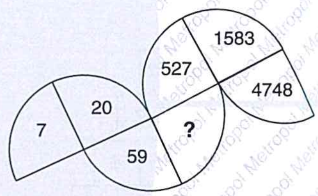
4.



⇒ x + y = ?

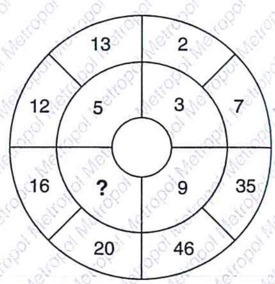
A) 62
B) 64
C) 66
D) 68
E) 70

5.



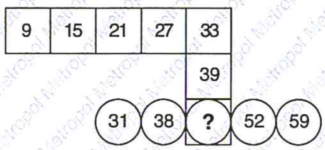
A) 196 B) 182 C) 176 D) 164 E) 152

6.



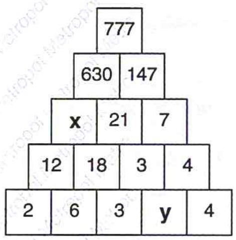
A) 1 B) 2 C) 4 D) 6 E) 9

7.



A) 45
B) 48
C) 50
D) 51
E) 52

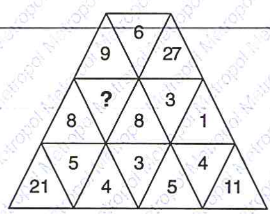
8.



⇒ **x ; y = ?**

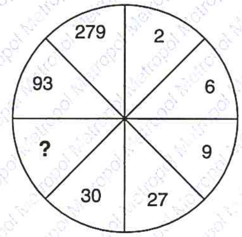
A) 1; 25 B) 14; 2 C) 30; 5 D) 15; 7 E) 30; 1

9.



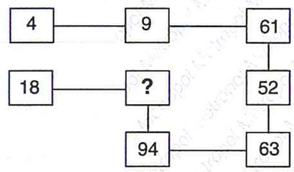
A) 16 B) 13 C) 8 D) 4 E) 1

10.



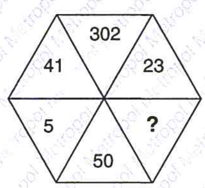
A) 16 B) 33 C) 90 D) 108 E) 124

11.



A) 42 B) 46 C) 50 D) 54 E) 58

12.

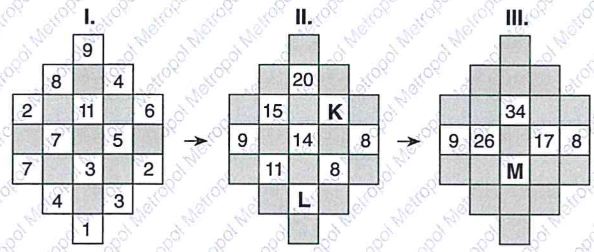


A) 14 B) 24 C) 35 D) 61 E) 72

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	D	B	D	C	D	A	E	D	C	B	A

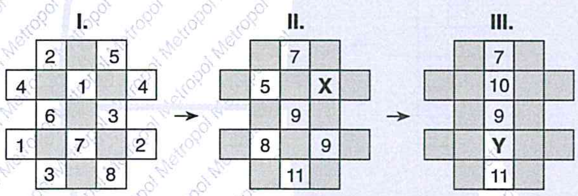
1.



⇒ M – K – L = ?

A) 4 B) 3 C) 5 D) 7 E) 8

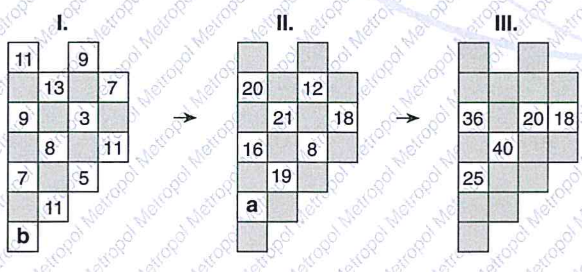
2.



⇒ Y – X = ?

A) 10 B) 12 C) 14 D) 9 E) 11

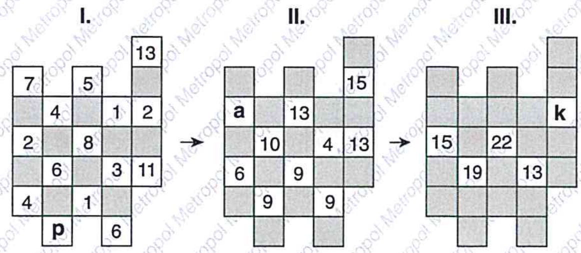
3.



⇒ $\frac{a}{b} = ?$

A) 7 B) 9 C) 4 D) $\frac{9}{2}$ E) $\frac{2}{9}$

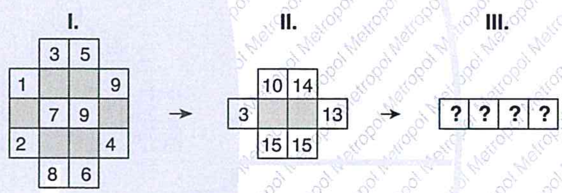
4.



⇒ k – a + p = ?

A) 20 B) 22 C) 29 D) 27 E) 24

5.



A) 25 | 29 | 3 | 13

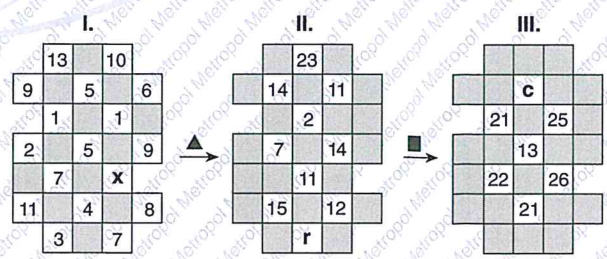
B) 13 | 25 | 3 | 29

C) 3 | 25 | 29 | 13

D) 3 | 29 | 25 | 13

E) 29 | 23 | 25 | 3

6.



⇒ $\frac{x \cdot c}{r} = ?$

A) 25 B) 100 C) 4 D) 10 E) 2

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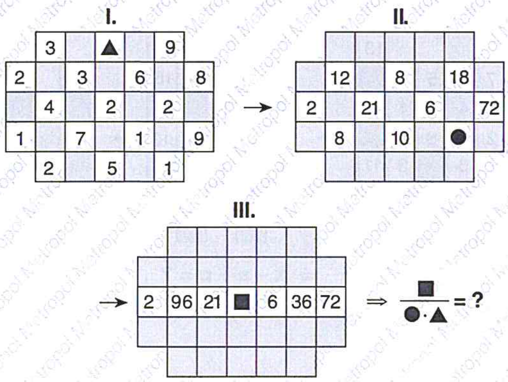
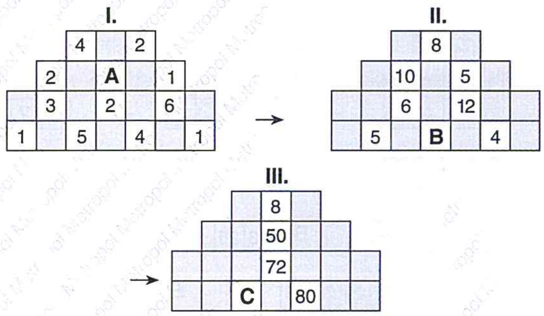
7.



$\Rightarrow \dfrac{■}{●\cdot▲} = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

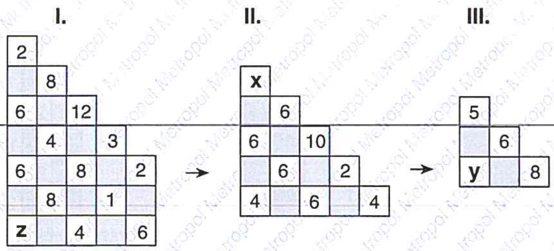
8.



$\Rightarrow C - A \cdot B = ?$

A) 0 B) 1 C) 50 D) 75 E) 100

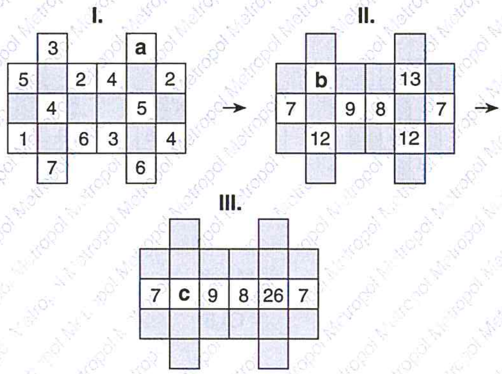
9.



$\Rightarrow \dfrac{(y \cdot x) + (z \cdot x)}{x} = ?$

A) 5 B) 6 C) 8 D) 7 E) 10

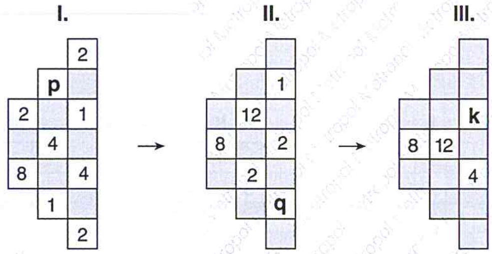
10.



$\Rightarrow \dfrac{c}{a} \cdot b = ?$

A) 24 B) 25 C) 26 D) 27 E) 28

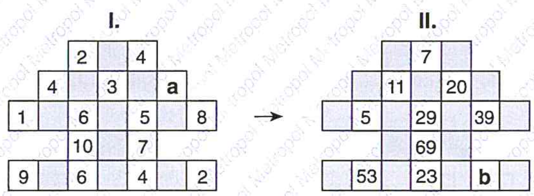
11.



$\Rightarrow p + q + k = ?$

A) 5 B) 7 C) 9 D) 11 E) 13

12.



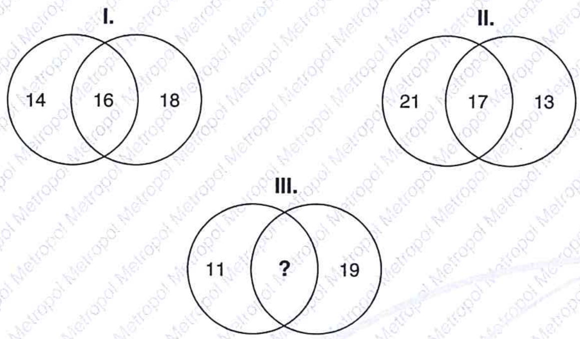
$\Rightarrow a - b = ?$

A) 2 B) 4 C) 3 D) 1 E) 0

YANITLAR / ANSWERS

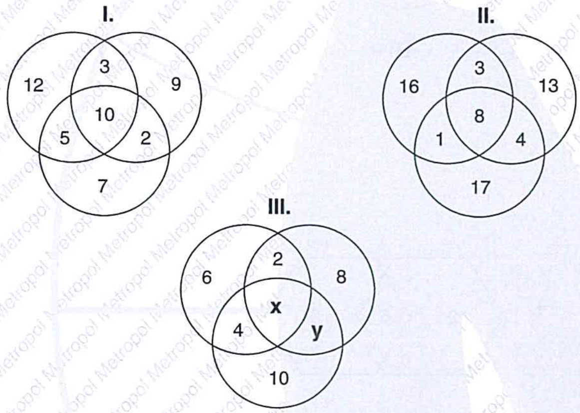
1	2	3	4	5	6	7	8	9	10	11	12
C	B	D	B	C	D	C	A	D	A	D	E

1.



A) 9 B) 11 C) 13 D) 15 E) 17

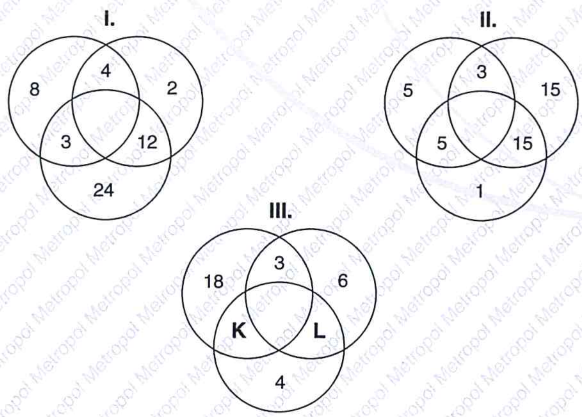
2.



⇒ x + y = ?

A) 6 B) 8 C) 10 D) 12 E) 14

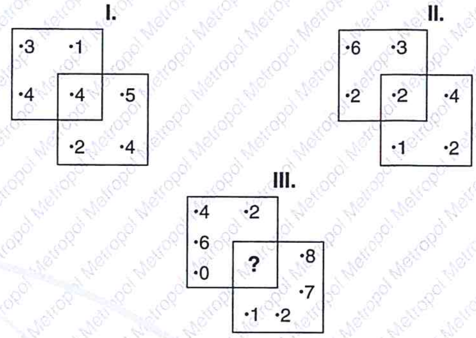
3.



$\Rightarrow \frac{K}{L} = ?$

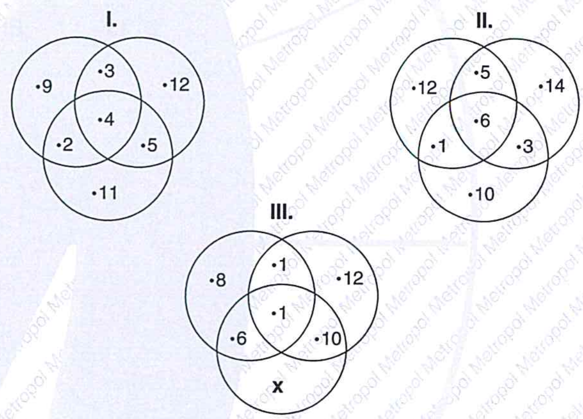
A) 1 B) $\frac{1}{3}$ C) 3 D) $\frac{7}{2}$ E) 4

4.



A) 1 B) 2 C) 4 D) 5 E) 7

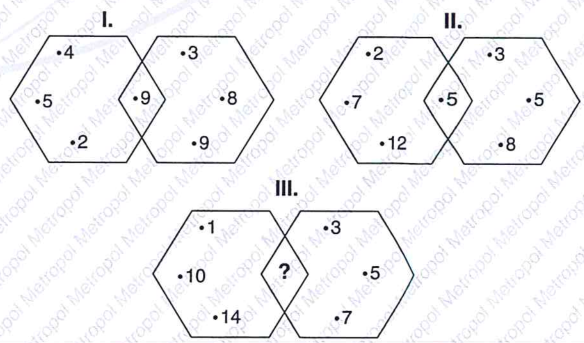
5.



⇒ x = ?

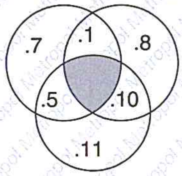
A) 9 B) 11 C) 13 D) 15 E) 17

6.

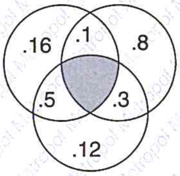


A) 1 B) 5 C) 7 D) 10 E) 14

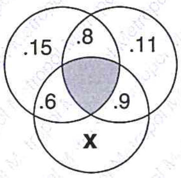
7.

I. 

: 10

II. 

: 27

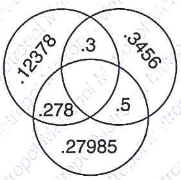
III. 

: 14

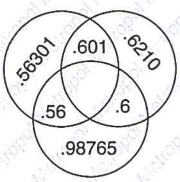
$\Rightarrow$ x = ?

A) 7 B) 9 C) 11 D) 13 E) 15

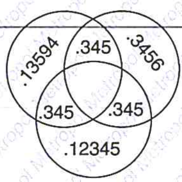
8.

I. 

⟶ –

II. 

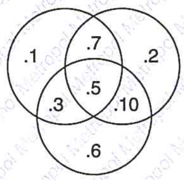
⟶ 6

III. 

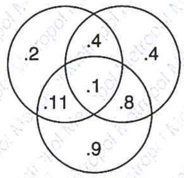
⟶ ?

A) – B) 3 C 34 D) 45 E) 345

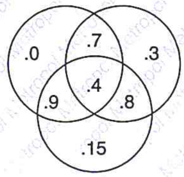
9.

I. 

: 16

II. 

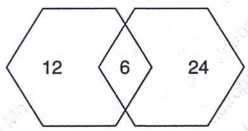
: 9

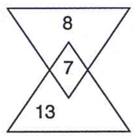
III. 

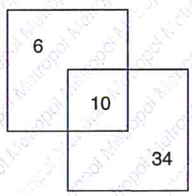
: ?

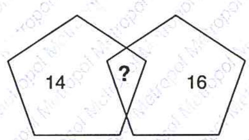
A) 8 B) 9 C) 10 D) 11 E) 12

10.

I. 

II. 

III. 

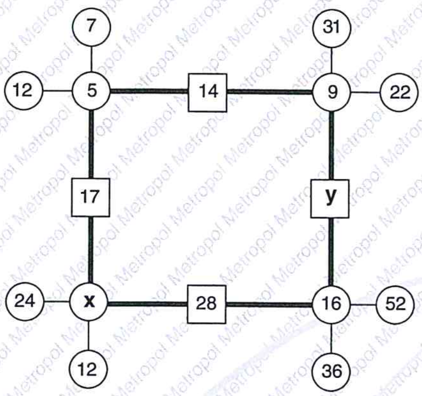
IV. 

A) 4 B) 6 C) 7 D) 8 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
D	C	C	B	E	D	C	E	C	B

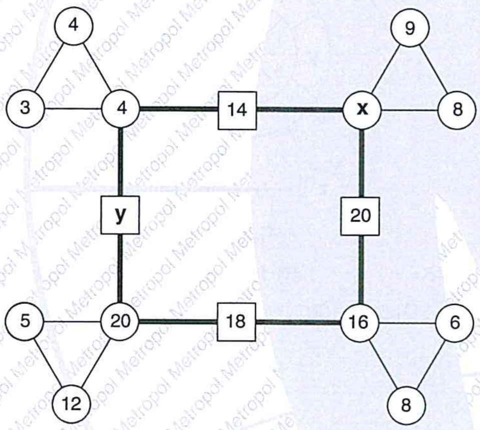
1.



⇒ x ; y = ?

A) 2;5 B) 4; 15 C) 12; 25 D) 16; 30 E) 32; 50

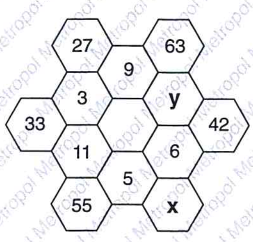
2.



⇒ x ; y = ?

A) 16; 24 B) 8; 12 C) 24; 12 D) 36; 6 E) 1; 5

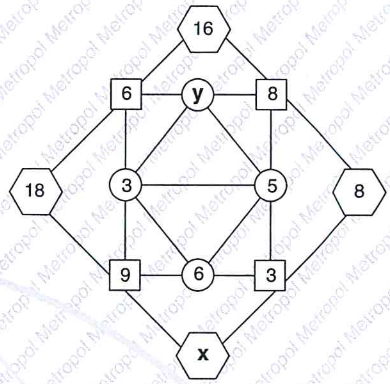
3.



⇒ x + y = ?

A) 35 B) 36 C) 37 D) 38 E) 39

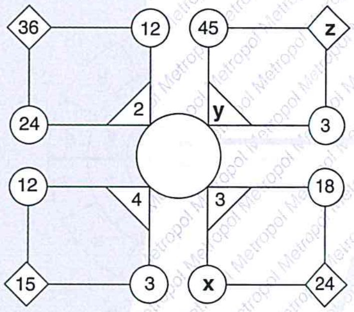
4.



⇒ x + y = ?

A) 8 B) 11 C) 14 D) 19 E) 24

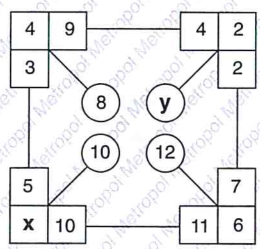
5.



⇒ x; y; z = ?

A) 6; 15; 48 B) 9; 15; 43 C) 6; 23; 48 D) 3; 5; 12 E) 6; 8; 14

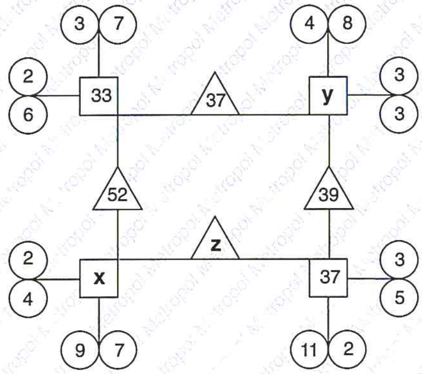
6.



⇒ x + y = ?

A) 14 B) 12 C) 10 D) 9 E) 8

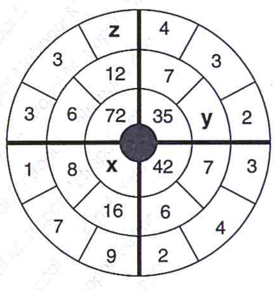
7.



⇒ x + y + z = ?

A) 162 B) 163 C) 164 D) 165 E) 166

8.

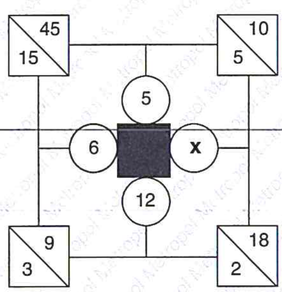


⇒ x; y ; z = ?

A) 128; 4; 12 B) 128; 8; 8 C) 128; 5; 9

D) 124; 4; 9 E) 124; 5; 12

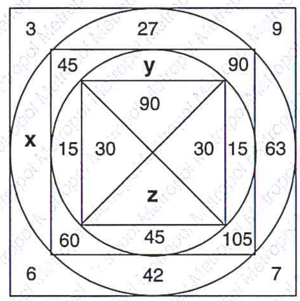
9.



⇒x = ?

A) 10 B) 11 C) 12 D) 13 E) 14

10.

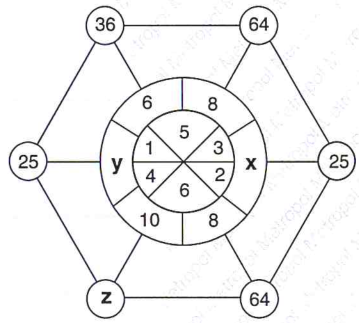


⇒ x; y ; z = ?

A) 18; 15; 30 B) 6; 48; 60 C) 18; 45; 90

D) 16; 15; 30 E) 12; 45; 90

11.

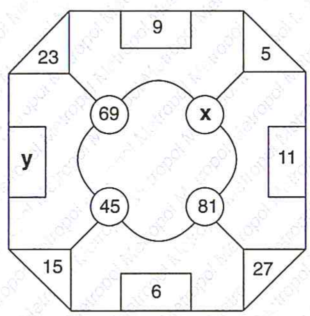


⇒ x; y; z = ?

A) 6; 4; 45 B) 12; 8; 55 C) 5; 10; 24

D) 5; 5; 100 E) 25; 5; 100

12.



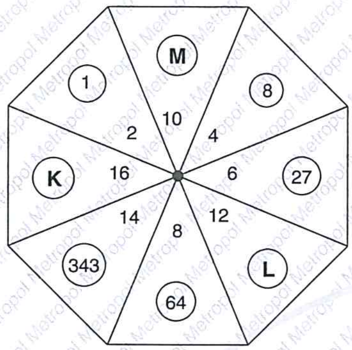
⇒ x + y = ?

A) 16 B) 17 C) 18 D) 19 E) 20

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	C	C	B	A	D	E	C	B	C	D	D

1.



⇒ K + L + M = ?

A) 852

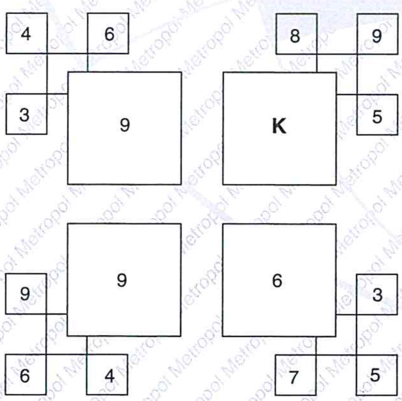
B) 853

C) 854

D) 855

E) 856

2.



⇒ K = ?

A) 5

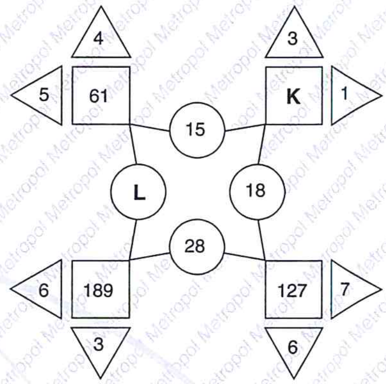
B) 6

C) 7

D) 8

E) 9

3.



⇒ K + L = ?

A) 48

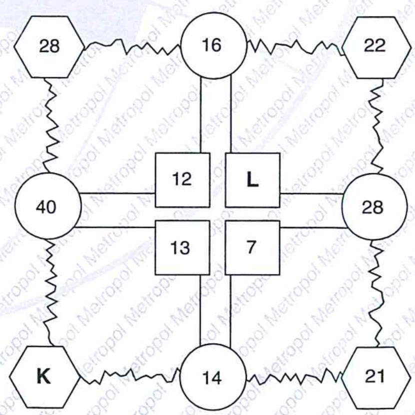
B) 49

C) 50

D) 51

E) 52

4.



⇒ K – L = ?

A) 20

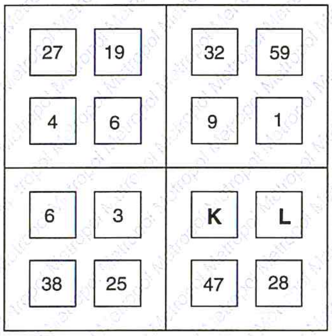
B) 21

C) 22

D) 23

E) 24

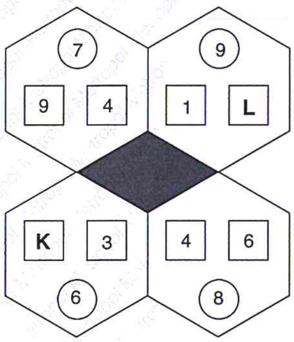
5.



⇒ K – L = ?

A) 0 B) 1 C) 2 D) 3 E) 4

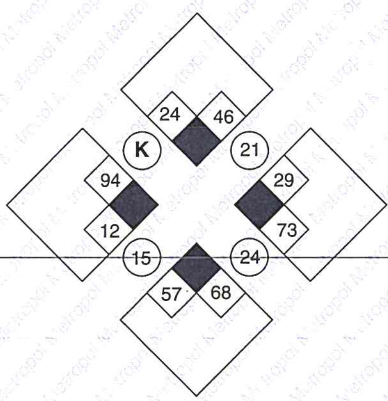
6.



⇒ K + L = ?

A) 11 B) 12 C) 13 D) 14 E) 15

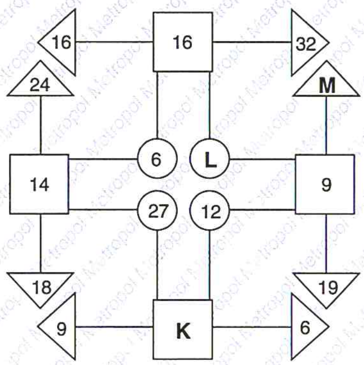
7.



⇒ K = ?

A) 15 B) 16 C) 17 D) 18 E) 19

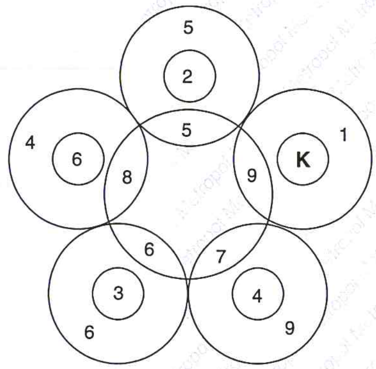
8.



⇒ K + L + M = ?

A) 34 B) 35 C) 36 D) 37 E) 38

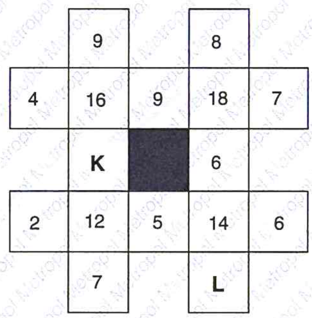
9.



⇒ K = ?

A) 5 B) 6 C) 7 D) 8 E) 9

10.



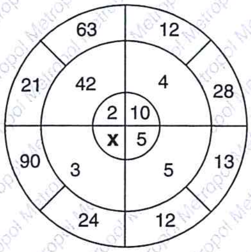
⇒ K + L = ?

A) 7 B) 8 C) 9 D) 10 E) 11

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
B	E	D	B	C	D	E	A	D	C

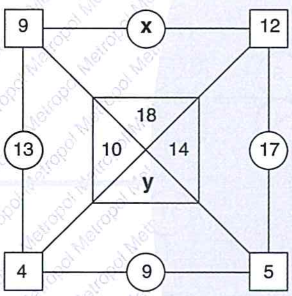
1.



⇒ x = ?

A) 5 B) 12 C) 22 D) 38 E) 41

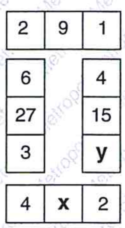
2.



⇒ x − y = ?

A) 15 B) 23 C) 26 D) 28 E) 30

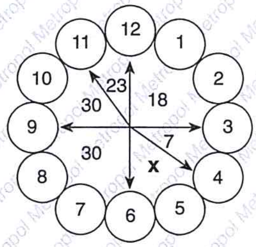
3.



⇒ x; y = ?

A) 112; 8 B) 102; 4 C) 56; 2 D) 18; 1 E) 56; 1

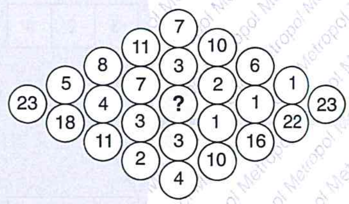
4.



⇒ x = ?

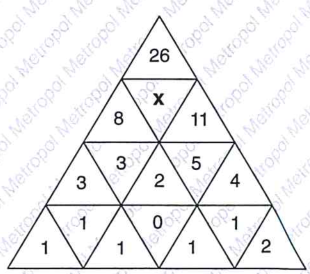
A) 10 B) 15 C) 20 D) 25 E) 30

5.



A) 1 B) 3 C) 6 D) 9 E) 12

6.



⇒ x = ?

A) 1 B) 3 C) 5 D) 7 E) 9

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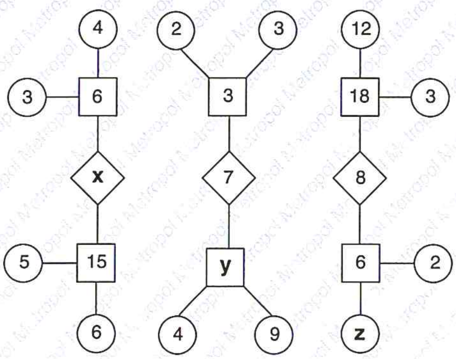
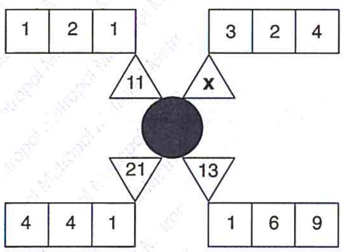
7.



$\Rightarrow x + y - z = ?$

A) 19 B) 18 C) 15 D) 11 E) 9

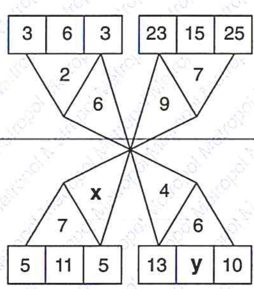
8.



$\Rightarrow x = ?$

A) 6 B) 16 C) 18 D) 24 E) 28

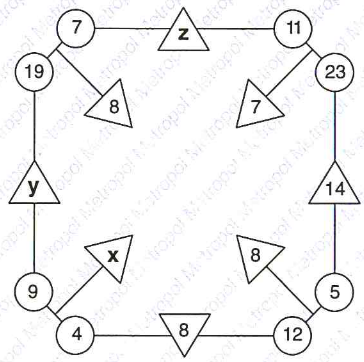
9.



$\Rightarrow x + y = ?$

A) 2 B) 4 C) 8 D) 14 E) 18

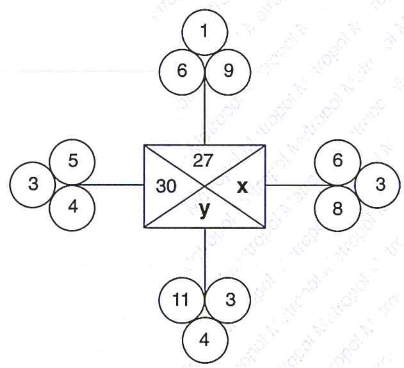
10.



$\Rightarrow x ; y ; z = ?$

A) 4; 1; 2 B) 20; 1; 18 C) 4; 14; 9 D) 3; 2; 8 E) 4; 2; 8

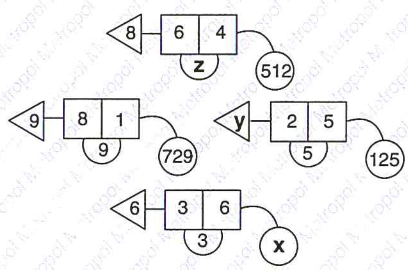
11.



$\Rightarrow x + y = ?$

A) 81 B) 95 C) 110 D) 129 E) 138

12.



$\Rightarrow x + y + z = ?$

A) 36 B) 38 C) 40 D) 42 E) 44

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	A	D	B	C	D	A	C	B	C	E	C

1.

I.
AA
DDD BB
CCC
⟶ 2, 3, 2, 3

II.
A
CC BB
DDD
⟶ 2, 2, 1, 3

III.
AA
CCC B
DD
⟶ ?

A) 1, 2, 3, 3
B) 1, 3, 2, 3
C) 1, 3, 2, 2
D) 2, 3, 1, 1
E) 3, 2, 1, 1

2.

I.  ⟶ 2, 2, 1, 1

II.  ⟶ 2, 1, 3, 2

III.  ⟶ ?

A) 3, 2, 2, 1
B) 1, 2, 2, 3
C) 1, 3, 3, 2
D) 1, 3, 2, 1
E) 2, 3, 1, 1

3.

I.
RRR LL
KK M
⟶ 1, 2, 3, 2

II.
R LL
KKK MM
⟶ 2, 3, 1, 2

III.
RR L
MMM KK
⟶ ?

A) 2, 3, 2, 1
B) 1, 2, 2, 3
C) 3, 2, 1, 2
D) 3, 1, 1, 2
E) 3, 2, 2, 1

4.

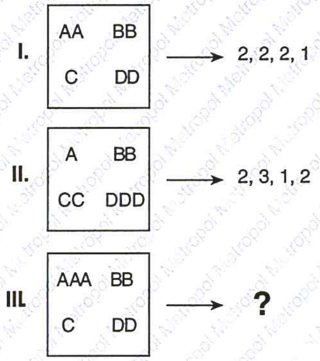
I.
A BB
C DDD
⟶ 2, 1, 3, 1

II.
AA B
C DDD
⟶ 1, 1, 3, 2

III.
AAA D
B CC
⟶ ?

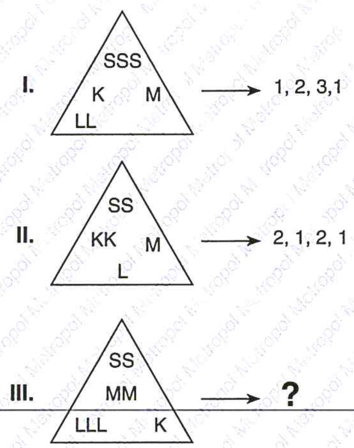
A) 3, 2, 3, 1
B) 1, 2, 1, 3
C) 1, 3, 2, 1
D) 3, 2, 1, 3
E) 1, 3, 1, 2

5.



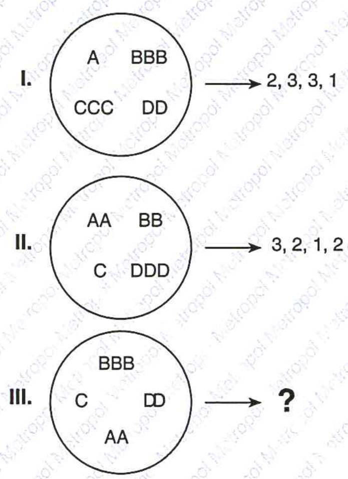
A) 2, 2, 3, 1
B) 2, 1, 3, 2
C) 2, 3, 2, 1
D) 1, 2, 3, 2
E) 3, 2, 1, 2

6.



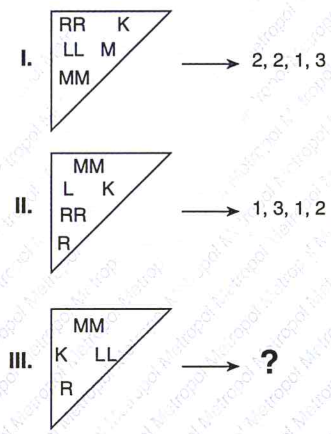
A) 1, 2, 3, 2
B) 3, 2, 2, 1
C) 1, 3, 2, 2
D) 2, 3, 1, 2
E) 3, 1, 2, 2

7.



A) 2, 3, 1, 2 B) 3, 2, 1, 3 C) 2, 1, 3, 2
D) 2, 1, 3, 2 E) 3, 2, 1, 2

8.

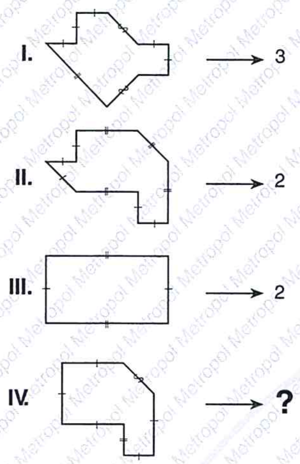


A) 2, 1, 1, 2 B) 2, 1, 2, 1 C) 1, 1, 2, 2
D) 1, 2, 1, 2 E) 2, 2, 1, 1

YANITLAR / ANSWERS

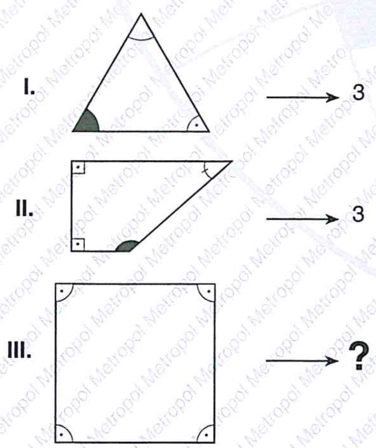
1	2	3	4	5	6	7	8
C	B	E	B	A	C	A	A

1.



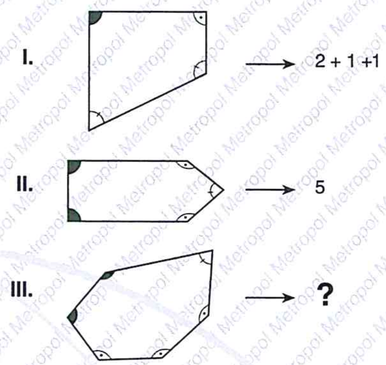
A) 2
B) 3
C) 4
D) 5
E) 6

2.



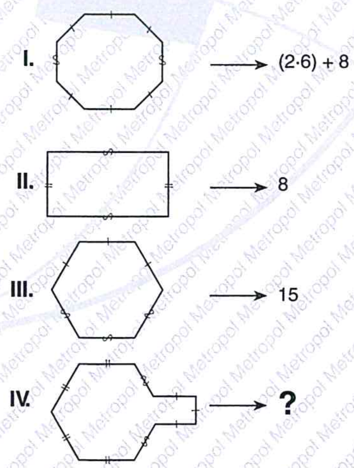
A) 1
B) 2
C) 3
D) 4
E) 5

3.



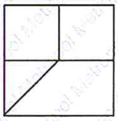
A) 4
B) 5
C) 6
D) 7
E) 8

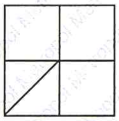
4.

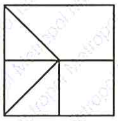


A) 30
B) 31
C) 32
D) 33
E) 34

5.

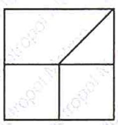
I.  ⟶ $2a + b + c$

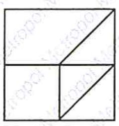
II.  ⟶ $3a + 2c$

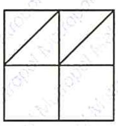
III.  ⟶ **?**

A) $a + 3b + 3c$
B) $3a + b + 3c$
C) $a + 3b + c$
D) $3a + b + c$
E) $a + b + 3c$

6.

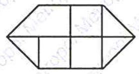
I.  ⟶ $a + 2b + c$

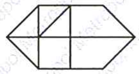
II.  ⟶ $a + b + 3c$

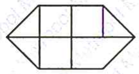
III.  ⟶ **?**

A) $2a + b + 4c$
B) $2a + 2b + 4c$
C) $2b + 4c$
D) $4a + 2c$
E) $2b + 4a$

7.

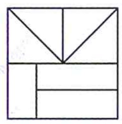
I.  ⟶ $3a + 3b + c$

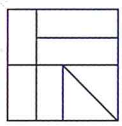
II.  ⟶ $4a + b + 2c$

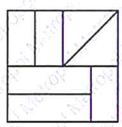
III.  ⟶ **?**

A) $3a + 2b + c$
B) $3a + b + 3c$
C) $2c + 2b + a$
D) $3a + 3b + c$
E) $3b + 2a + 2c$

8.

I.  ⟶ $a + 2b + 4c$

II.  ⟶ $3a + 2b + 2c$

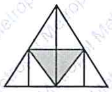
III.  ⟶ **?**

A) $3a + 2b + 2c$
B) $2a + 3b + 2c$
C) $3a + b + 3c$
D) $2b + c + 2a$
E) $2c + 4b + a$

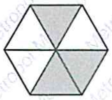
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	A	C	D	E	C	D	A

1.

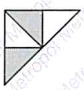
I.  $\equiv \frac{1}{4} \cdot 6$

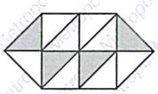
II.  $\equiv 1$

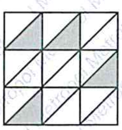
III.  $\equiv$ **?**

A) 1
B) 1,5
C) 2
D) 2,5
E) 3

2.

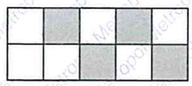
I.  $\equiv \frac{2}{2} \cdot 3$

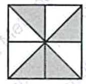
II.  $\equiv \frac{8}{4} \cdot 6$

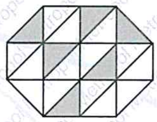
III.  $\equiv$ **?**

A) 13
B) 14
C) 15
D) 16
E) 17

3.

I.  $\equiv \frac{10}{4} + 6$

II.  $\equiv 6$

III.  $\equiv$ **?**

A) $\frac{23}{7}$

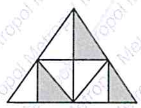
B) $\frac{24}{7}$

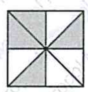
C) $\frac{52}{3}$

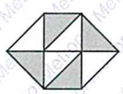
D) $\frac{49}{3}$

E) $\frac{37}{3}$

4.

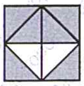
I.  $\equiv \frac{5}{3} + 8$

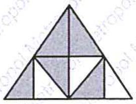
II.  $\equiv 9$

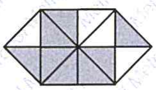
III.  $\equiv$ **?**

A) 7
B) 8
C) 9
D) 10
E) 11

5.

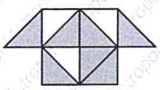
I.  $\equiv \frac{6}{2} - 8$

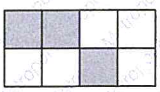
II.  $\equiv \frac{-19}{3}$

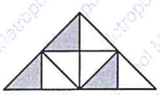
III.  $\equiv$?

A) –8
B) –9
C) –10
D) –11
E) –12

6.

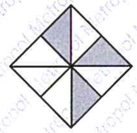
I.  $\equiv \frac{10}{3} \cdot 7$

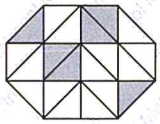
II.  $\equiv \frac{24}{5}$

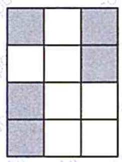
III.  $\equiv$?

A) $\frac{21}{2}$
B) $\frac{11}{2}$
C) $\frac{23}{5}$
D) $\frac{24}{5}$
E) 5

7.

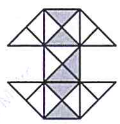
I.  $\equiv 5 - \frac{3}{8}$

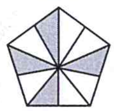
II.  $\equiv \frac{137}{10}$

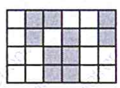
III.  $\equiv$?

A) $\frac{3}{5}$
B) $\frac{5}{7}$
C) $\frac{35}{12}$
D) $\frac{65}{12}$
E) $\frac{79}{12}$

8.

I.  $\equiv \frac{20+6}{14}$

II.  $\equiv \frac{7}{3}$

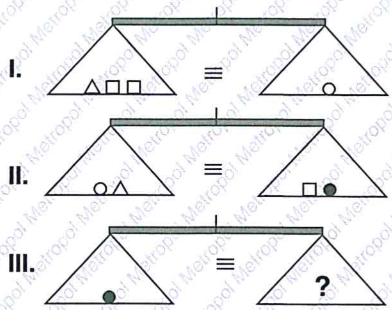
III.  $\equiv$?

A) $\frac{19}{6}$
B) $\frac{20}{7}$
C) $\frac{19}{6}$
D) $\frac{18}{7}$
E) $\frac{17}{7}$

YANITLAR / ANSWERS

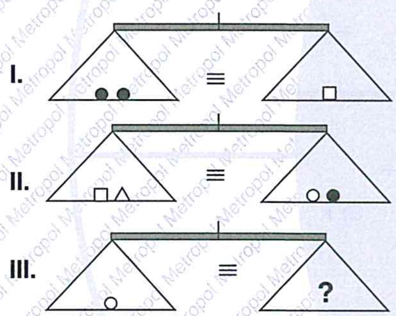
1	2	3	4	5	6	7	8
B	B	C	C	C	D	E	E

1.



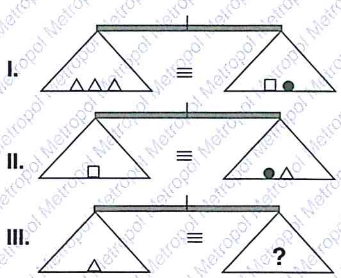
A) △△ B) □ C) □△ D) △△□ E) △□□

2.



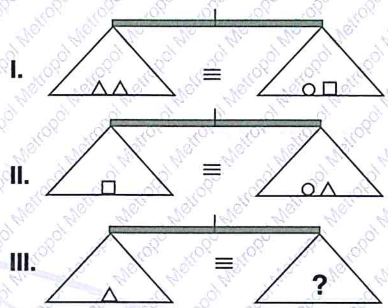
A) △ B) ● C) △△ D) ●△ E) ●●

3.



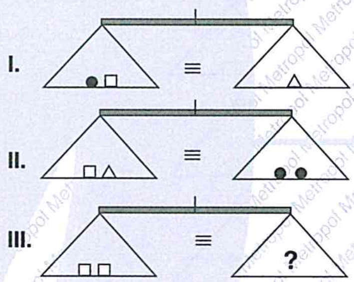
A) □● B) △□ C) □ D) △● E) ●

4.



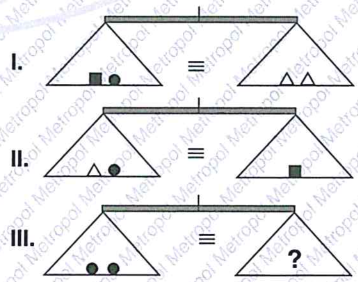
A) ○ B) ○○ C) ○○□ D) □△ E) △

5.



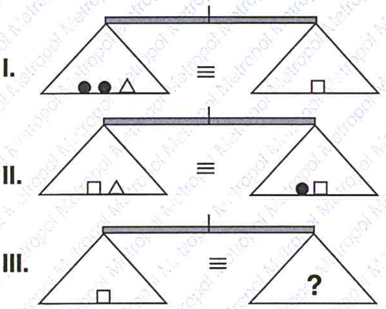
A) ● B) △ C) ●△ D) △△ E) ●●

6.



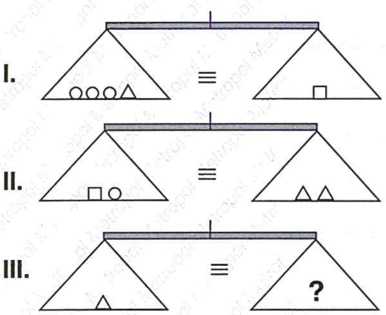
A) ■ B) △ C) ■△ D) ■■△ E) △△■

7.



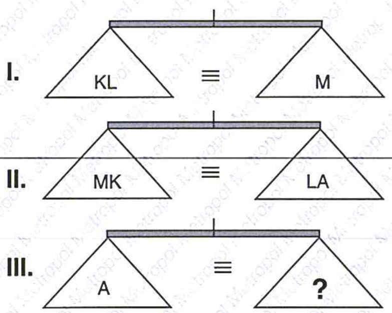
A) ● B) △ C) ● △
D) ● ● E) ● ● △

8.



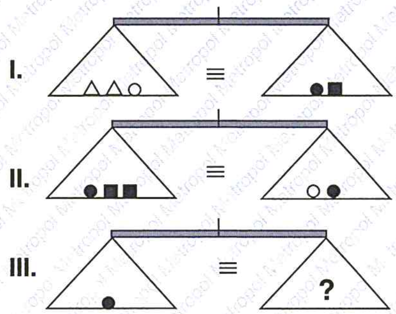
A) ○ B) ○○○○ C) ○□
D) □□ E) □

9.



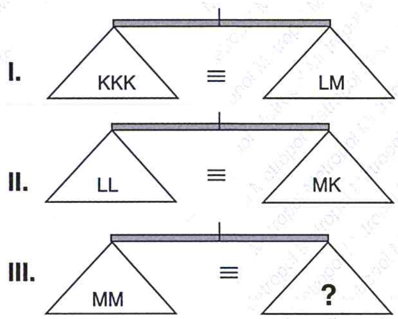
A) K B) KM C) KL
D) KK E) LM

10.



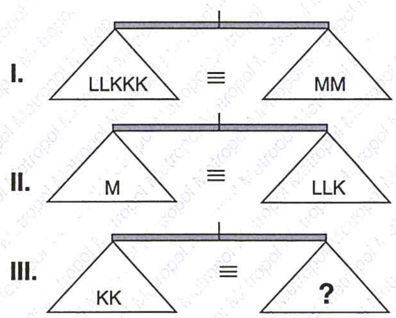
A) △△ B) △■ C) △△■
D) ■■△ E) ■■

11.



A) L B) K C) KL
D) LLK E) KKL

12.



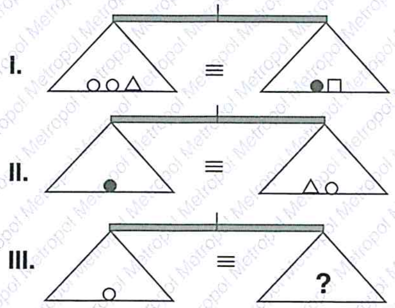
A) M B) MK C) L
D) LM E) KL

METROPOL YAYINLARI • METROPOL PUBLICATIONS

YANITLAR / ANSWERS

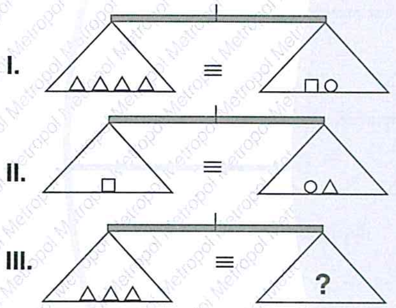
1	2	3	4	5	6	7	8	9	10	11	12
D	D	E	B	A	B	E	B	D	C	E	A

1.



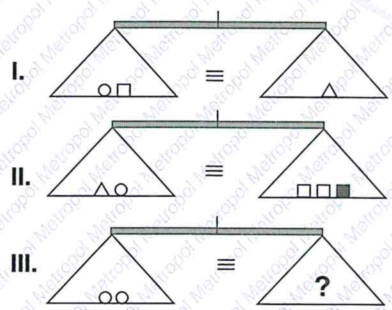
A) ● B) △ C) □□
D) □ E) △□

2.



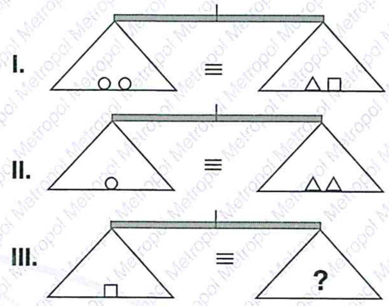
A) ○ B) ○○ C) ○○○□
D) □○ E) □□○

3.



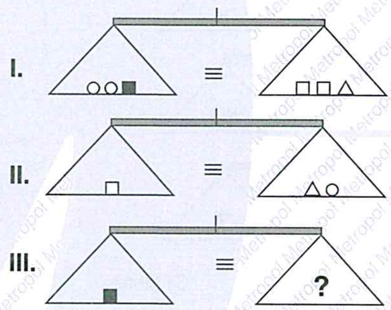
A) □ B) ■ C) ■■
D) □■ E) □□

4.



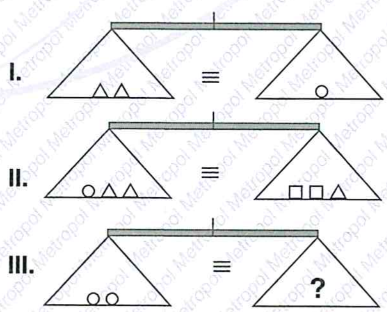
A) △ B) △△ C) △△△
D) △△△△ E) △△△□

5.



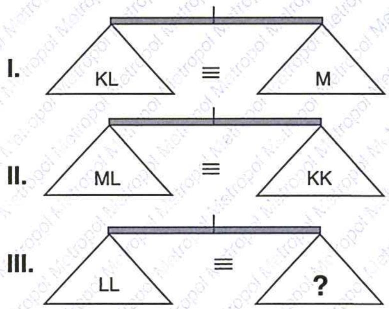
A) △ B) △△ C) △△△
D) △△△△ E) △△△△△

6.



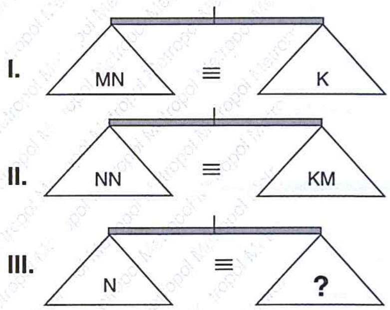
A) □ B) □△ C) ○□
D) ○△ E) □□△

7.



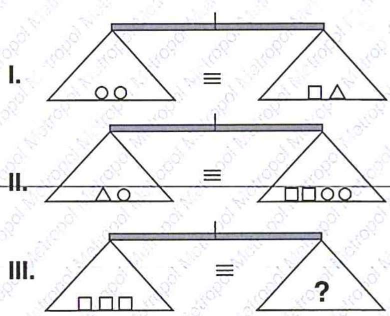
A) K B) KK C) KKK
D) KM E) KMM

8.



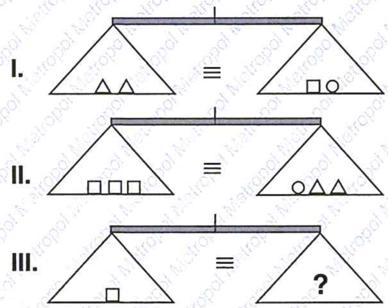
A) M B) MM C) MMM
D) KM E) KKM

9.



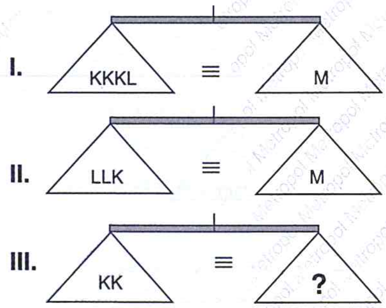
A) ○○○ B) ○○ C) ○
D) △○ E) △△

10.



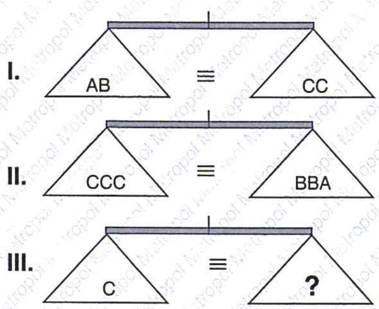
A) △△ B) △○ C) ○○
D) ○ E) △△○

11.



A) L B) KKK C) LL
D) LLK E) KKLL

12.



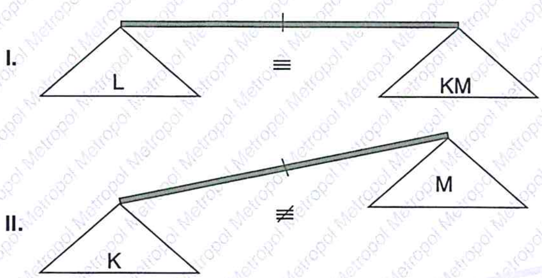
A) BB B) B C) BA
D) AA E) AAB

METROPOL YAYINLARI • METROPOL PUBLICATIONS

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	B	D	C	C	E	A	B	C	D	A	B

1.

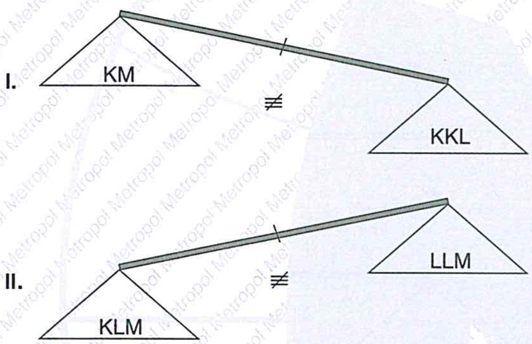


Yukarıdaki terazilere göre aşağıdakilerden hangisi doğrudur?

Which of the following is true according to the scales above?

A) M > K B) L < K C) L = M D) M < L E) K = LM

2.

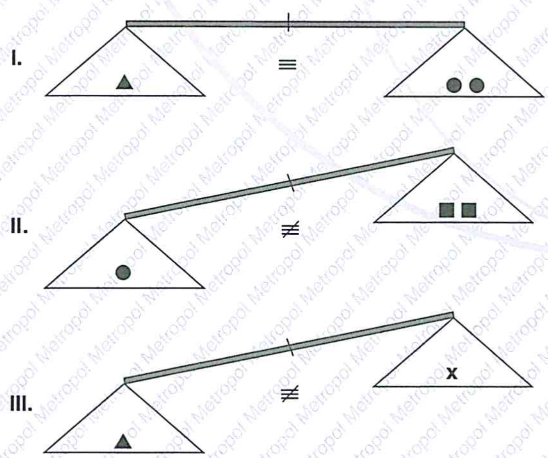


Yukarıdaki terazilere göre aşağıdakilerden hangisi yanlıştır?

Which of the following is wrong according to the scales above?

A) KK > M B) KL > M C) L > K D) KKK > LL E) KM > L

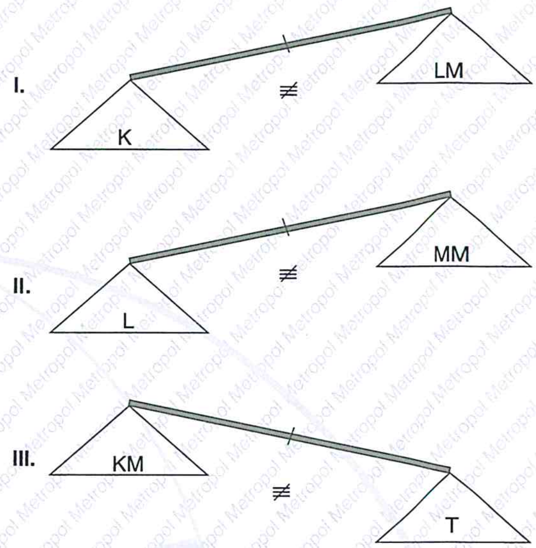
3.



⇒ x ≢ ?

A) ● B) ● ■ C) ■ ■ ■ D) ■ ■ ■ ■ E) ● ● ■

4.

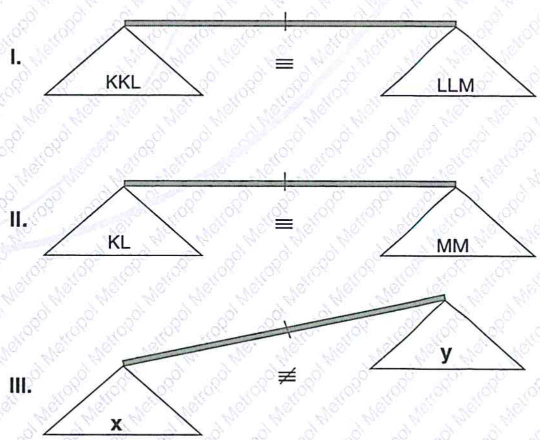


Yukarıdaki terazilere görea aşağıdakilerden hangisi yanlıştır?

Which of the following is wrong according to the scales above?

A) T > LM B) MMM > K C) T > KL D) K < T E) MMMM < T

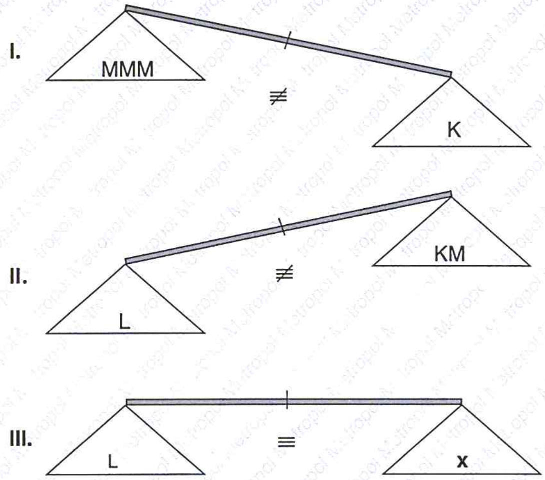
5.



⇒ (x, y) ≢ ?

A) (L, KK) B) (L, M) C) (LM, KKK) D) (M, K) E) (KM, L)

6.

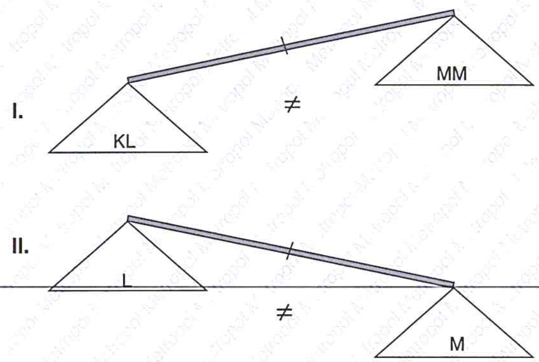


x aşağıdakilerden hangisi olabilir?

Which of the following could be the value of x?

A) M B) MM C) MMM D) MMMM E) MMMMM

7.



Yukarıdaki terazilere göre aşağıdakilerden hangisi yanlıştır?

Which of the following is wrong according to the scales above?

A) K > M B) K > L C) KM > LL D) ML < KK E) LL > MM

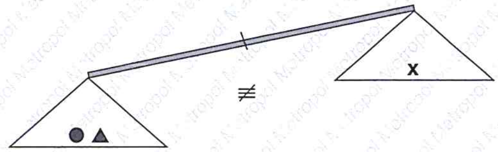
8.

● = K + K + L

▲ = L + M

■ = K + M

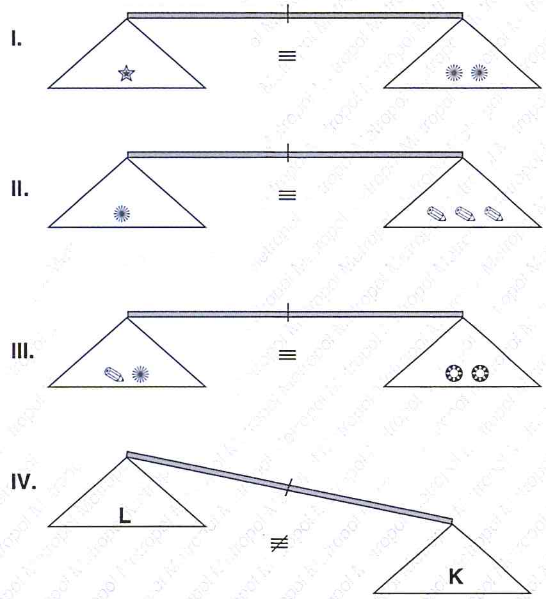
K > L > M



⇒ x ≠ ?

A) ■ B) ■ ▲ C) ▲ ▲ D) ● ● E) ■ ■

9.

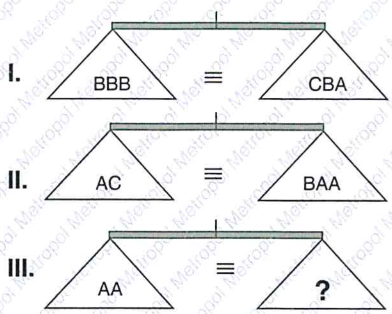


	K	L
A)	★	✹ ✹ ✎
B)	✹ ❂	★
C)	✹ ✹	✎ ✎ ✎ ❂ ❂
D)	❂ ❂ ❂	★
E)	★ ★	✹ ❂ ✹

YANITLAR / ANSWERS

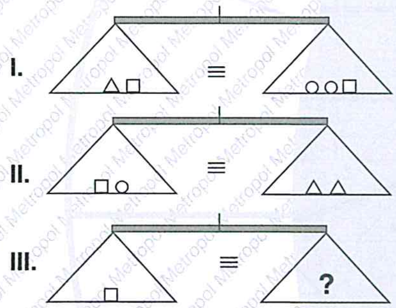
1	2	3	4	5	6	7	8	9
D	C	E	B	E	E	E	D	E

1.



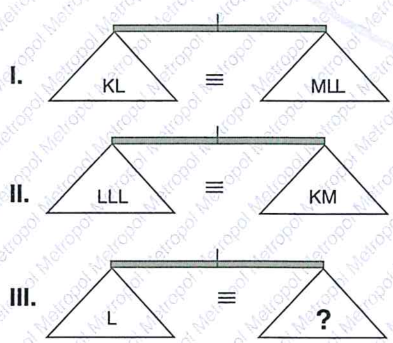
A) BBBB B) BBB C) BC
D) B E) B/2

2.



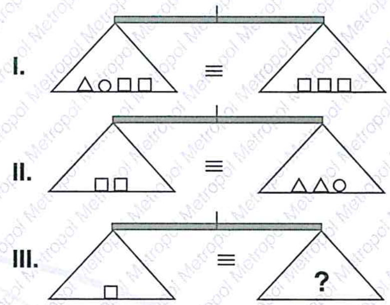
A) ○ B) △ C) △○
D) ○○△ E) △△○

3.



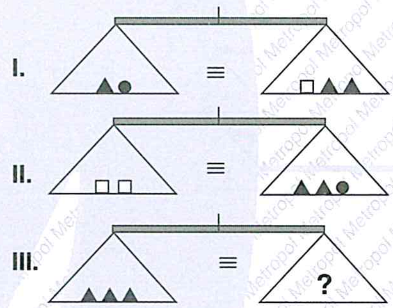
A) KM B) KKM C) KMM
D) K E) M

4.



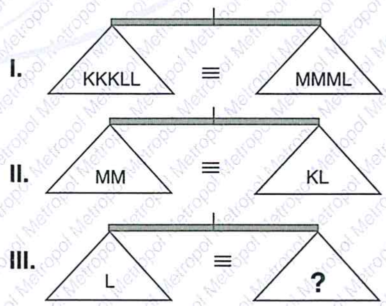
A) △△△ B) △△○ C) △
D) ○ E) ○○

5.



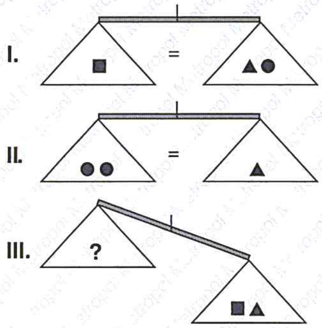
A) ● B) ●● C) □
D) □□ E) ●□

6.



A) MMM B) K C) MM
D) KK E) MK

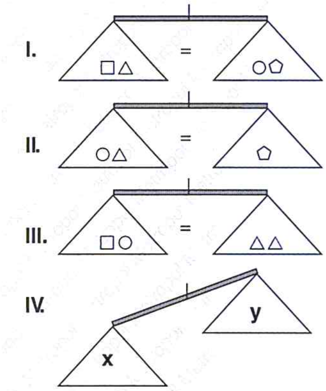
7.



A) ■■ B) ▲▲● C) ▲▲▲

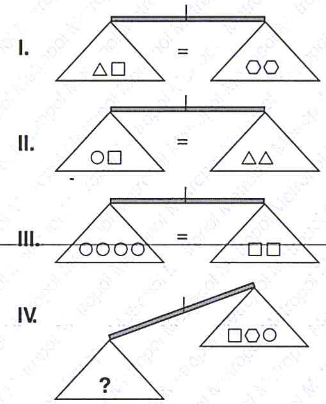
D) ●●▲ E) ■●●

8.



	x	y
A)	⬠⬠	□□□
B)	○○○	□△
C)	⬠□	△△△
D)	□□□	○○△△
E)	⬠⬠⬠	□□△○○

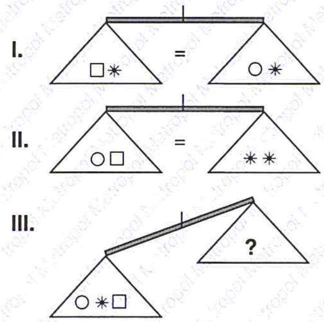
9.



A) △△○○ B) ○○○○ C) △△△

D) ⬡⬡ E) □△○

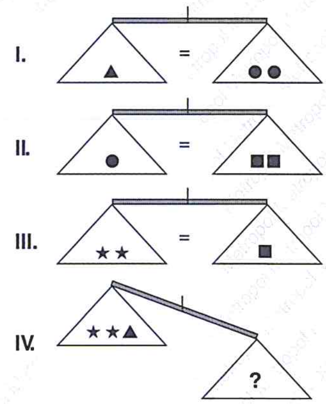
10.



A) □✳✳ B) ✳✳✳✳ C) ○□□

D) ○○□ E) □□

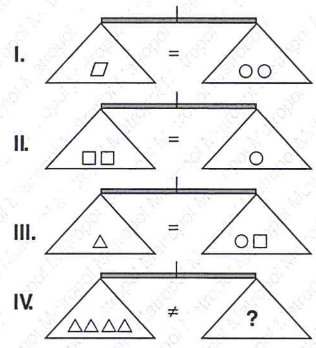
11.



A) ■■■ B) ■■■■ C) ■■■■■

D) ■■■■■■ E) ●●■

12.



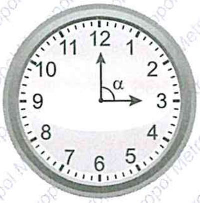
A) ▱▱▱ B) ▱▱○○ C) ○○○○○○

D) ▱○○○□□ E) ▱○□□□□□

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	E	C	C	E	D	D	A	E	D	E

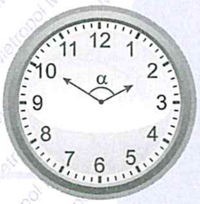
1.



⇒ α = ?

A) 30° B) 45° C) 60° D) 75° E) 90°

2.



⇒ α = ?

A) 75° B) 90° C) 100° D) 120° E) 150°

3.

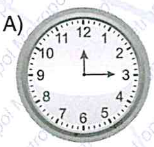
⇒ α = ?

A) 165° B) 150° C) 120° D) 100° E) 90°

4.

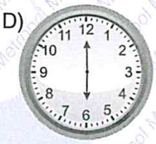
 ≡ 

 ≡ 

A) 

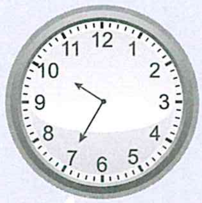
B) 

C) 

D) 

E) 

5.

 ≡ 3

 ≡ ?

A) 3 B) 4 C) 5 D) 6 E) 7

6.

 ≡ 14

 ≡ ?

A) 6 B) 8 C) 9 D) 10 E) 12

7.

≡ 22

≡ 40

≡ **?**

A) 13 B) 15 C) 21 D) 27 E) 30

8.

≡ 33

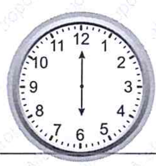
≡ 5

≡ **?**

A) 14 B) 21 C) 23 D) 27 E) 30

9.

≡ 13



≡ 18

≡ **?**

A) 12 B) 13 C) 14 D) 15 E) 16

10.

≡ 36

≡ 32

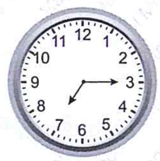
≡ **?**

A) 30 B) 32 C) 35 D) 42 E) 50

11.

⇓

24



⇓

120

⇓

?

A) 12 B) 15 C) 18 D) 21 E) 36

12.

⇓

8

⇓

2

⇓

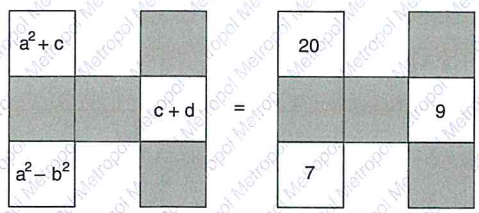
?

A) 6 B) 7 C) 8 D) 9 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	D	B	C	C	D	B	C	A	C	A	D

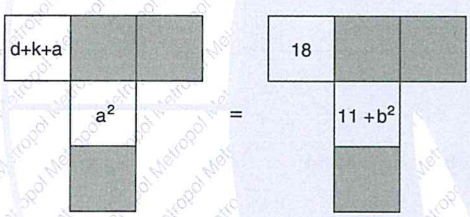
1.



$\Rightarrow$ **$a \cdot b + c \cdot d$ = ?**

A) 24 B) 32 C) 48 D) 56 E) 64

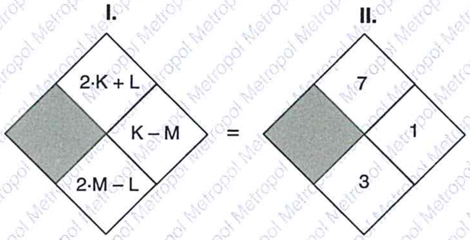
2.



$\Rightarrow$ **$a + b + d + k$ = ?**

A) 23 B) 22 C) 21 D) 20 E) 19

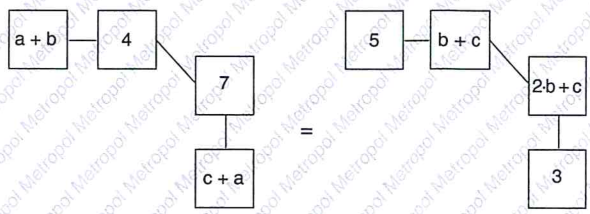
3.



$\Rightarrow$ **$K \cdot M$ = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

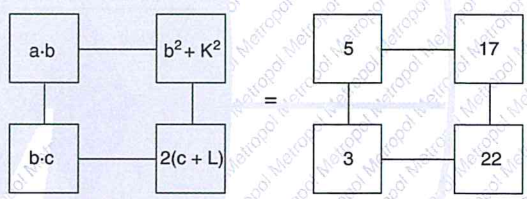
4.



$\Rightarrow$ **$a \cdot b \cdot c$ = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

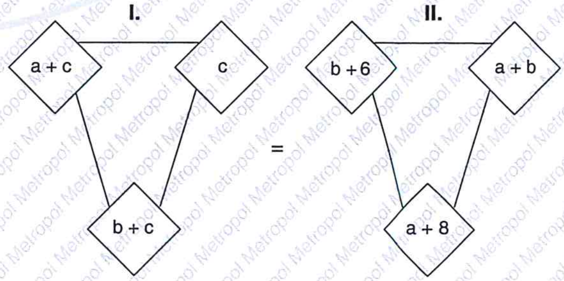
5.



$\Rightarrow$ **$K + L$ = ?**

A) 12 B) 10 C) 8 D) 6 E) 4

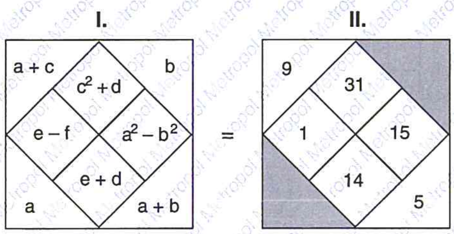
6.



$\Rightarrow$ **c = ?**

A) 3 B) 4 C) 5 D) 6 E) 7

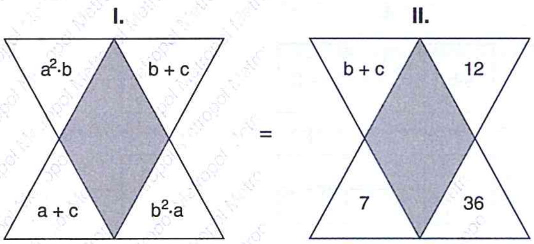
7.



$\Rightarrow \dfrac{a+b+c}{d+e+f} = ?$

A) $\frac{11}{20}$ B) $\frac{1}{2}$ C) $\frac{10}{21}$ D) $\frac{3}{7}$ E) $\frac{8}{21}$

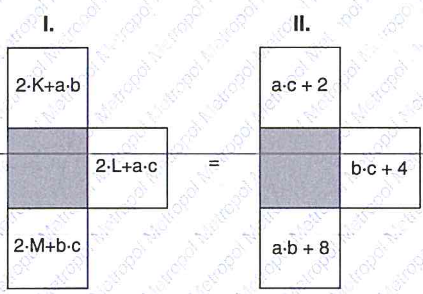
8.



$\Rightarrow$ **2a + b + 3c = ?**

A) 24 B) 26 C) 28 D) 30 E) 32

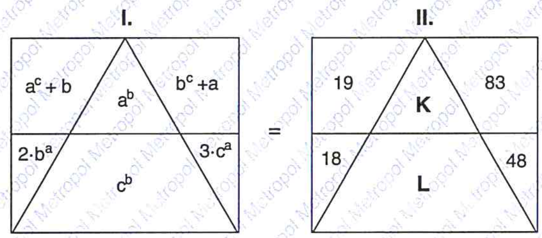
9.



$\Rightarrow$ **K + L + M = ?**

A) 3 B) 4 C) 5 D) 6 E) 7

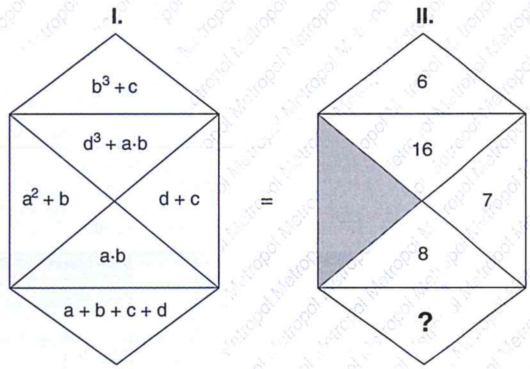
10.



$\Rightarrow$ **K + L = ?**

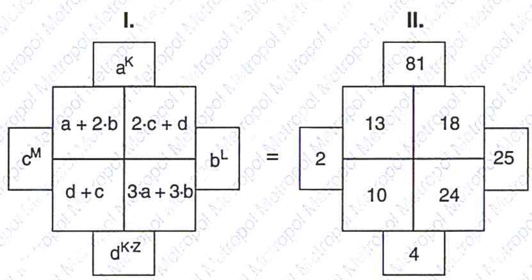
A) 66 B) 68 C) 70 D) 72 E) 74

11.



A) 13 B) 14 C) 15 D) 16 E) 17

12.



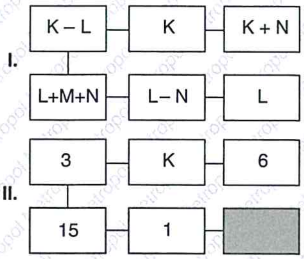
$\Rightarrow \dfrac{1}{M} + \dfrac{1}{Z} + K + L = ?$

A) 9 B) 10 C) 11 D) 12 E) 13

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	A	E	E	A	E	C	B	E	D	D	C

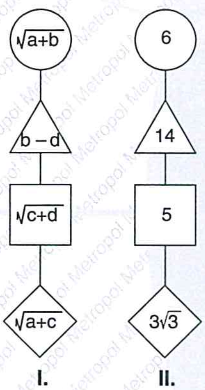
1.



$\Rightarrow$ **M = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

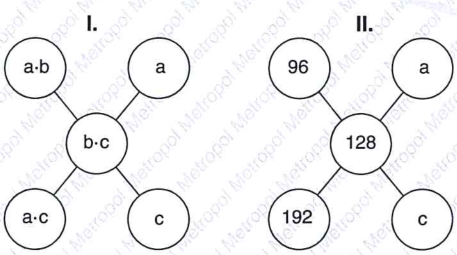
2.



$\Rightarrow$ **c = ?**

A) 6 B) 9 C) 13 D) 14 E) 15

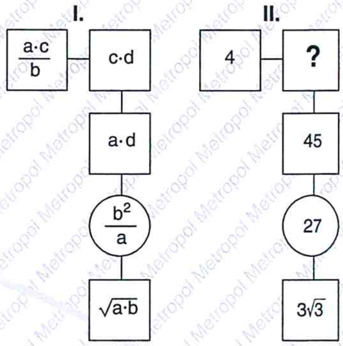
3.



$\Rightarrow$ **a + b + c = ?**

A) 28 B) 30 C) 32 D) 34 E) 36

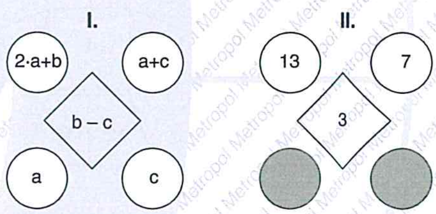
4.



$\Rightarrow$ **c·d = ?**

A) $2 \times 3^3 \times 5$ B) $2^2 \times 3^2 \times 5$ C) $2^2 \times 3 \times 5^2$ D) $2^2 \times 3^2 \times 5^2$ E) $2 \times 3 \times 5$

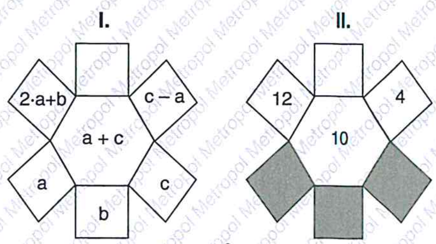
5.



$\Rightarrow$ **a + 2b = ?**

A) 11 B) 15 C) 17 D) 19 E) 21

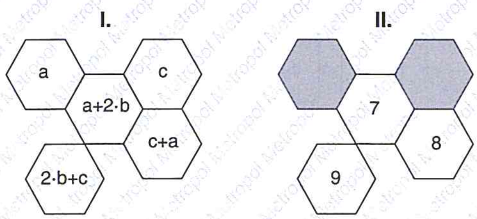
6.



$\Rightarrow$ **a^2 = ?**

A) 1 B) 3 C) 4 D) 9 E) 16

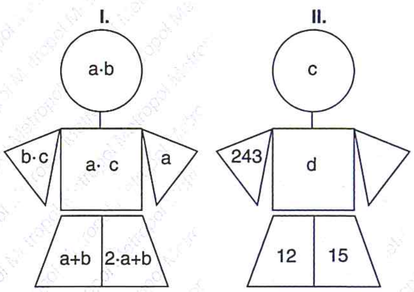
7.



⇒ a + b + c = ?

A) 6 B) 8 C) 10 D) 12 E) 16

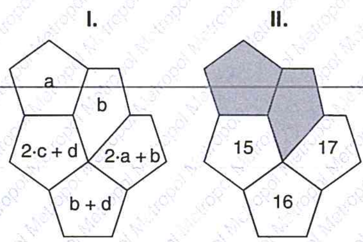
8.



⇒ d = ?

A) 3 B) 9 C) 27 D) 81 E) 243

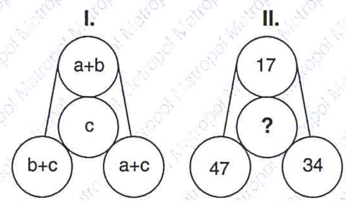
9.



⇒ a + c = ?

A) 8 B) 10 C) 12 D) 14 E) 16

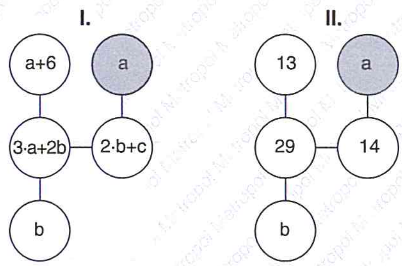
10.



⇒ c = ?

A) 2 B) 15 C) 20 D) 32 E) 36

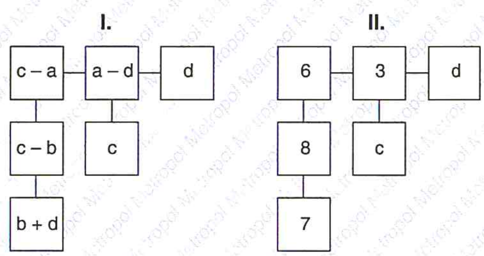
11.



⇒ a + c + 2b = ?

A) 16 B) 21 C) 24 D) 29 E) 33

12.



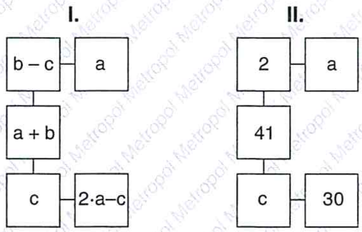
⇒ a + d = ?

A) 6 B) 9 C) 12 D) 15 E) 18

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	E	E	B	C	D	C	D	A	D	B	B

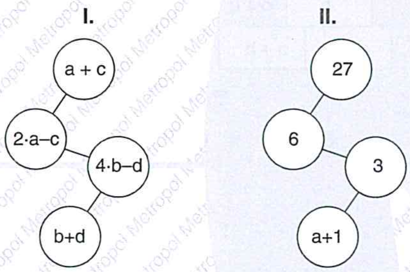
1.



$\Rightarrow$ **a = ?**

A) 16 B) 18 C) 22 D) 23 E) 26

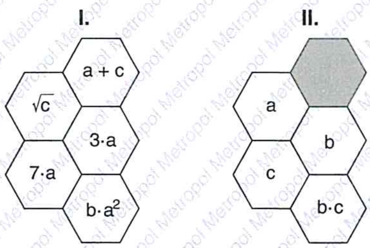
2.



$\Rightarrow$ **b + 2d = ?**

A) 3 B) 9 C) 16 D) 18 E) 21

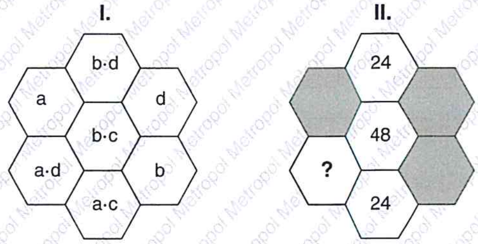
3.



$\Rightarrow$ **a + c = ?**

A) 48 B) 56 C) 63 D) 72 E) 91

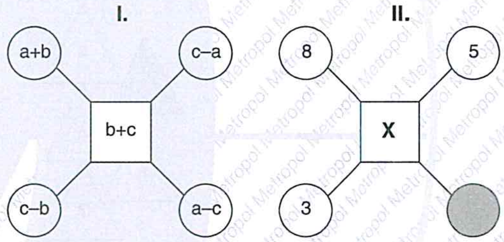
4.



$\Rightarrow$ **a·d = ?**

A) 6 B) 12 C) 18 D) 36 E) 48

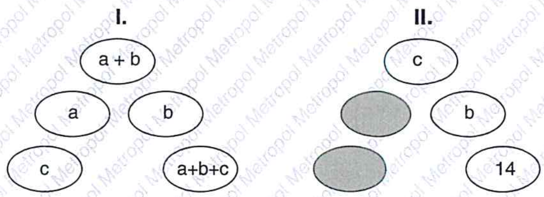
5.



$\Rightarrow$ **X = ?**

A) 8 B) 13 C) 16 D) 21 E) 24

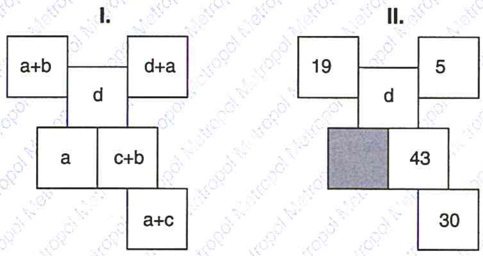
6.



$\Rightarrow$ **a + b = ?**

A) 3 B) 5 C) 7 D) 11 E) 16

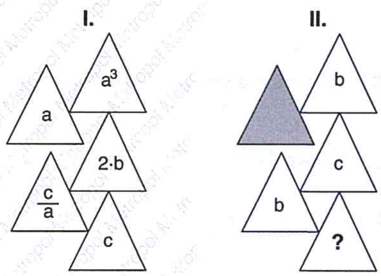
7.



⇒ **d = ?**

A) 2 B) 3 C) 8 D) 16 E) 27

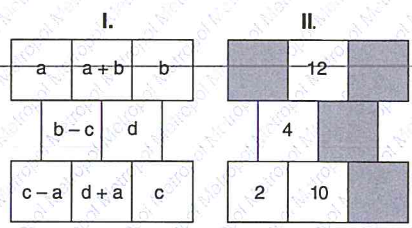
8.



⇒ **c = ?**

A) 2 B) 4 C) 8 D) 12 E) 16

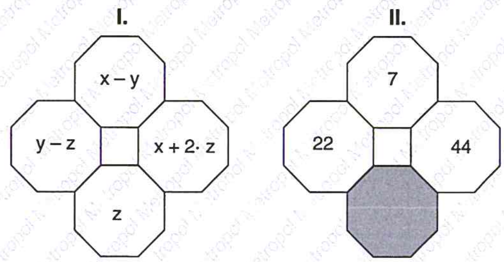
9.



⇒ **c = ?**

A) 3 B) 5 C) 7 D) 9 E) 13

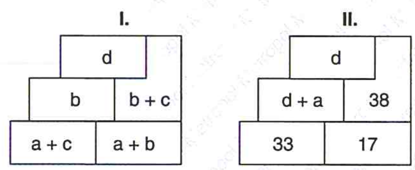
10.



⇒ **x + y + z = ?**

A) 36 B) 48 C) 54 D) 66 E) 71

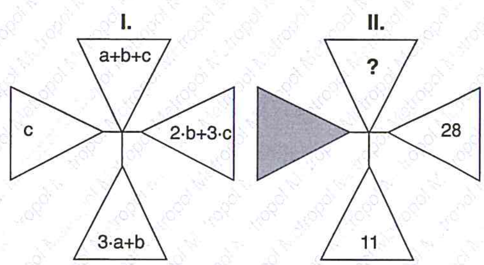
11.



⇒ **d = ?**

A) 5 B) 11 C) 13 D) 18 E) 27

12.



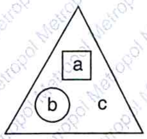
⇒ **a + b + c = ?**

A) 7 B) 10 C) 13 D) 16 E) 21

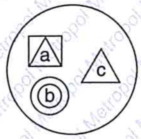
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	B	B	B	C	A	E	B	D	A	C

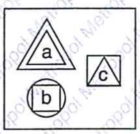
1.

I. 

$\equiv 3\left(\frac{a}{4} + b^2 + c\right)$

II. 

$\equiv \left(\frac{3\cdot a}{4} + b^4 + 3\cdot c\right)^2$

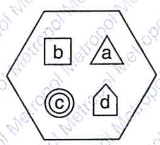
III. 

$\equiv$?

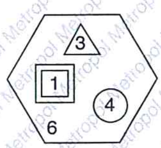
A) $\dfrac{9\cdot a + \frac{3\cdot c}{4} + \frac{b^2}{16}}{4}$ B) $\dfrac{9\cdot a + \frac{3\cdot c}{4} + \frac{b}{16}}{4}$ C) $\dfrac{9\cdot a + \frac{4\cdot c}{3} + b^2}{4}$

D) $\dfrac{9\cdot a + \frac{3\cdot c}{4} + \frac{16}{b^2}}{4}$ E) $9\cdot a + \frac{3\cdot c}{4} + \frac{b^2}{16}$

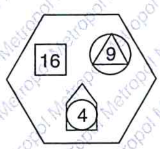
2.

I. 

$\equiv \left(4\cdot b + \frac{a}{3} + \frac{\frac{c}{2}}{2} + d^2\right)$

II. 

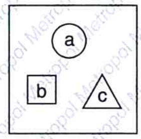
$\equiv 25$

III. 

$\equiv$?

A) 137 B) 139 C) 128 D) $\frac{139}{2}$ E) $\frac{139}{4}$

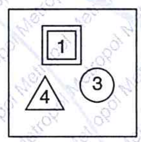
3.

I. 

$\equiv 4\cdot(a^2 + 4\cdot b + 3\cdot c)$

II. 

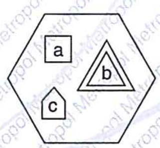
$\equiv 4\cdot 64$

III. 

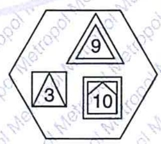
$\equiv$?

A) 140 B) 144 C) 148 D) 152 E) 156

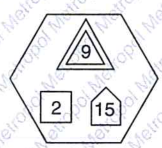
4.

I. 

$\equiv 6\cdot\left(4\cdot a + \frac{b}{3\cdot 3} + \frac{5}{c}\right)$

II. 

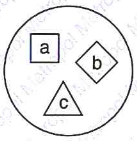
$\equiv 78$

III. 

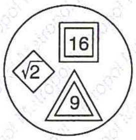
$\equiv$?

A) 54 B) 56 C) 58 D) 60 E) 62

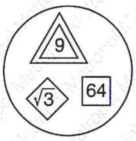
5.

I. 

$\equiv \left(\frac{a}{4} \cdot b^2 \cdot \frac{c}{3}\right)^3$

II. 

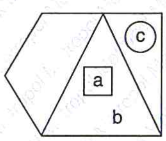
$\equiv 8$

III. 

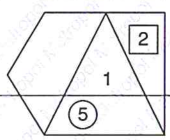
$\equiv$ **?**

A) $(48)^2$ B) $(48)^3$ C) 144 D) $(11)^2$ E) $(11)^3$

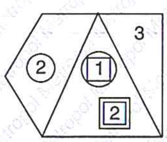
6.

I. 

$\equiv (4 \cdot a + b) \cdot c^2$

II. 

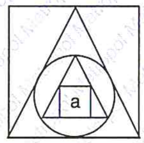
$\equiv (25 + 1) \cdot 8$

III. 

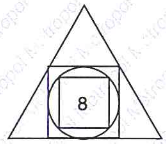
$\equiv$ **?**

A) 560 B) 564 C) 568 D) 572 E) 576

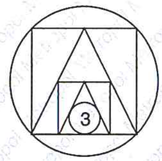
7.

I. 

$\equiv \dfrac{\left(\frac{a}{4} + 3\right)^2 + 3}{4}$

II. 

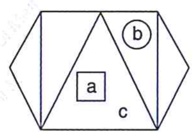
$\equiv 4$

III. 

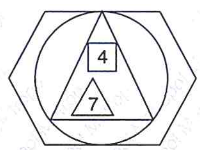
$\equiv$ **?**

A) 9 B) 7 C) 5 D) $\frac{7}{3}$ E) $\frac{9}{4}$

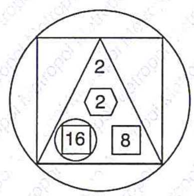
8.

I. 

$\equiv \left[\dfrac{3 \cdot \left(\frac{a}{4} + c\right) + b^2}{4}\right]^6$

II. 

$\equiv (66)^{12}$

III. 

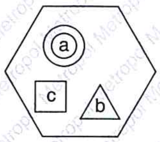
$\equiv$ **?**

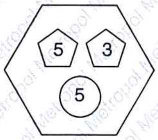
A) $(21)^2$ B) $(21)^3$ C) $(42)^3$ D) $(63)^2$ E) $(63)^3$

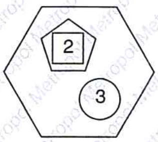
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	D	C	B	B	E	E	D

1.

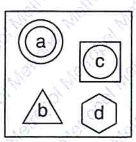
I.  $\equiv (a^3)^3 + 3\cdot b + 4\cdot c$

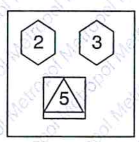
II.  $\equiv 125 + 25 + 15$

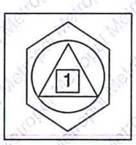
III.  $\equiv$ **?**

A) 24 B) 43 C) 52 D) 67 E) 64

2.

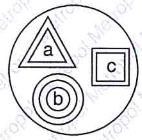
I.  $\equiv (a\cdot 2\cdot 2) + (c\cdot 2\cdot 4) + (3\cdot b) + (6\cdot d)$

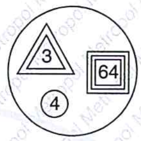
II.  $\equiv 60 + 18 + 12$

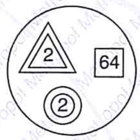
III.  $\equiv$ **?**

A) 12^2 B) 24^2 C) 36^2 D) 48^2 E) 64^2

3.

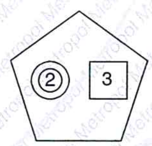
I.  $\equiv (a^2)^2 + 27\cdot b + \frac{c}{16}$

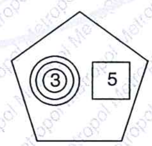
II.  $\equiv 94$

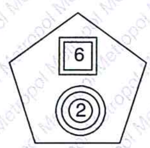
III.  $\equiv$ **?**

A) 50 B) 52 C) 54 D) 56 E) 58

4.

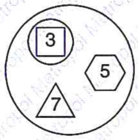
I.  $\equiv (3\cdot 100) + (2^2)^1$

II.  $\equiv ((3^3)^2)^1 + 500$

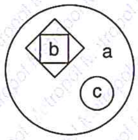
III.  $\equiv$ **?**

A) 632 B) 664 C) 6032 D) 6064 E) 60064

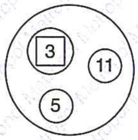
5.

I. 

$\equiv 2 \cdot \left[(3 \cdot 4) \cdot 2 + (5 \cdot 6) + (7 \cdot 3)\right]$

II. 

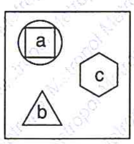
$\equiv 2 \cdot \left[4 \cdot (4 \cdot b) + a + (2 \cdot c)\right]$

III. 

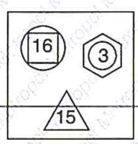
$\equiv$ **?**

A) 112 B) 114 C) 116 D) 118 E) 120

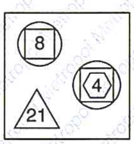
6.

I. 

$\equiv \left(\frac{a}{4}\right)^2 + \frac{b}{3} + 6 \cdot c$

II. 

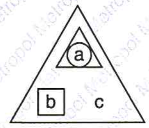
$\equiv$ 75

III. 

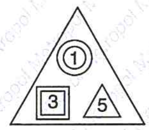
$\equiv$ **?**

A) 30 B) 36 C) 47 D) 54 E) 72

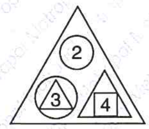
7.

I. 

$\equiv ((3 \cdot a^2) + 4 \cdot b + c)$

II. 

$\equiv$ 64

III. 

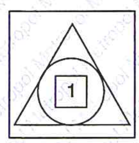
$\equiv$ **?**

A) 130 B) 131 C) 132 D) 133 E) 134

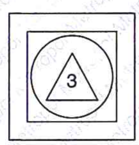
8.

I. 

$\equiv ((2 \cdot (a \cdot 3)) + 4) + 4$

II. 

$\equiv$ 34

III. 

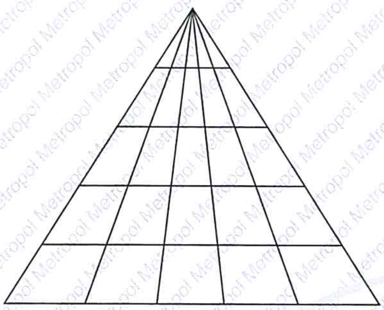
$\equiv$ **?**

A) 24 B) 26 C) 28 D) 30 E) 32

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	A	A	E	A	C	D	B

1.

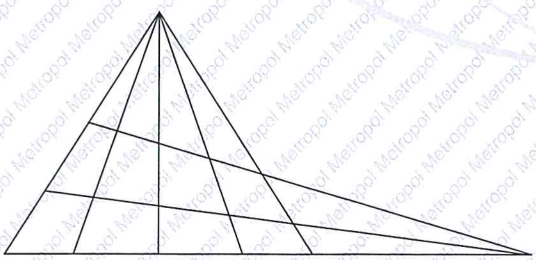


Yukarıdaki şekilde kaç tane üçgen vardır?

How many triangles exist in the figure above?

A) 40 B) 45 C) 60 D) 75 E) 105

2.

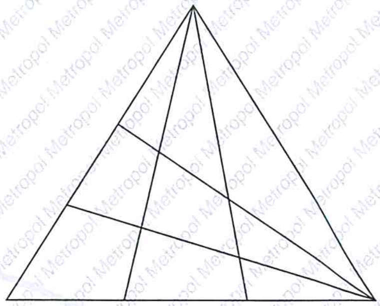


Yukarıdaki şekilde kaç tane üçgen vardır?

How many triangles exist in the figure above?

A) 35 B) 40 C) 45 D) 50 E) 55

3.

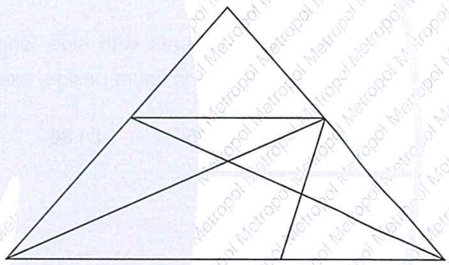


Yukarıdaki şekilde kaç tane üçgen vardır?

How many triangles exist in the figure above?

A) 18 B) 21 C) 25 D) 27 E) 28

4.

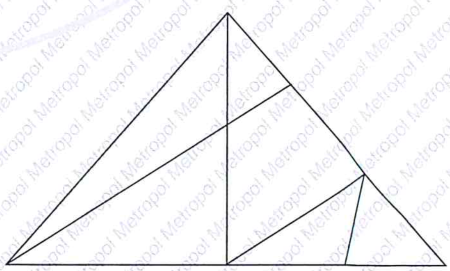


Yukarıdaki şekilde kaç tane üçgen vardır?

How many triangles exist in the figure above?

A) 15 B) 16 C) 17 D) 18 E) 19

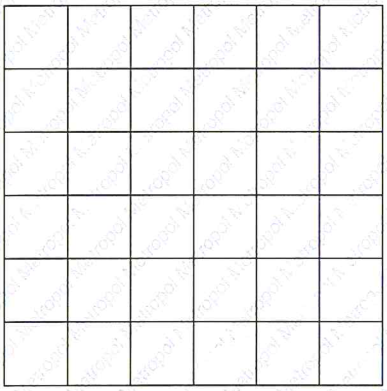
5.



Yukarıdaki şekilde kaç tane üçgen vardır?

How many triangles exist in the figure above?

A) 9 B) 10 C) 11 D) 12 E) 13



Yukarıdaki şekil kenar uzunlukları 1br olan 36 eş karelerden oluşmaktadır. Buna göre aşağıdaki soruları yanıtlayınız.
Answer the following questions according to the figure above consisting of 36 equally shaped squares with side lenghts of 1 unit.

6. 

Kenar uzunluğu şekildeki gibi 2br olan kaç kare vardır?
How many squares with side lenghts of two units, as shown in figure beside, exist?

A) 9 B) 16 C) 25 D) 36 E) 49

7. **Alanı 16 br² olan kaç kare vardır?**
How many squares with area of 16 u² exist?

A) 4 B) 8 C) 9 D) 12 E) 16

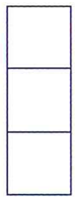
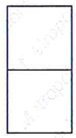
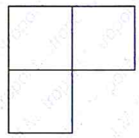
8. **Toplam kaç kare vardır?**
How many squares exist in total?

A) 81 B) 85 C) 87 D) 89 E) 91

9.  ≡ x 18

⇒  ≡ x **?**

A) 24 B) 26 C) 28 D) 30 E) 32

10.  = 24 ⇒  +  = **?**

A) 40 B) 45 C) 50 D) 55 E) 60

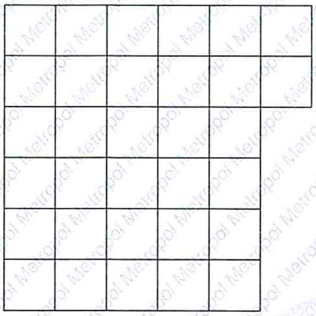
11. **Herhangi bir köşesinden kenarları 1br olan kare kesilirse en az kaç eş üçgen elde edilir?**
If a square with side lengths of 1 units gets cut from a corner of the figure, at least how many equally shaped triangles can be obtained?

A) 7 B) 9 C) 11 D) 12 E) 14

YANITLAR / **ANSWERS**

1	2	3	4	5	6	7	8	9	10	11
D	C	D	C	D	C	C	E	D	D	E

1.

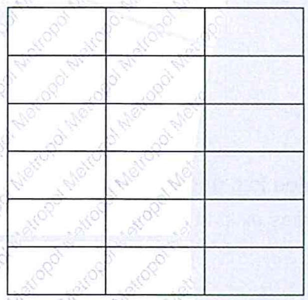


Yukarıdaki şekilde kaç tane kare vardır?

How many squares exist in the figure above?

A) 70 B) 72 C) 73 D) 75 E) 80

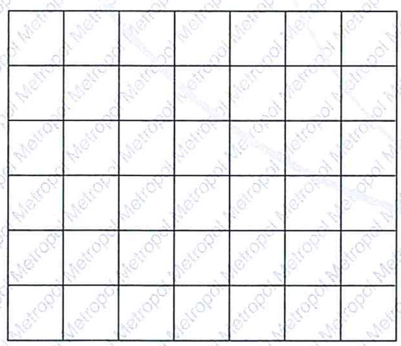
2.



Yukarıdaki şekilde kaç adet dikdörtgen vardır?

How many rectangles exist in the figure above?

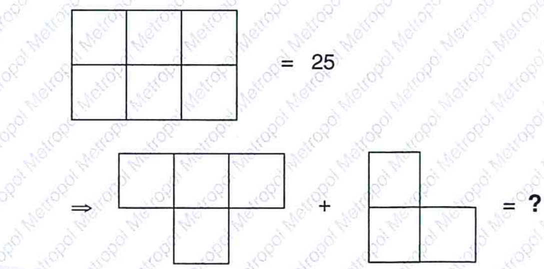
A) 124 B) 126 C) 128 D) 130 E) 132



Yukarıda kenar uzunlukları 1 br olan 42 eş kareden oluşan şekle göre; 3., 4. ve 5. soruları çözünüz.

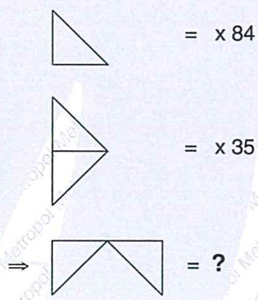
Answer the questions 3, 4 and 5 according to the figure above consisting of 42 equally shaped squares with side lenghts of 1 unit.

3.



A) 40 B) 45 C) 50 D) 55 E) 60

4.



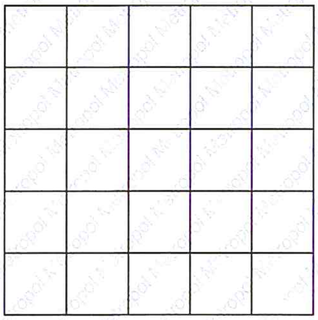
A) 18 B) 27 C) 32 D) 36 E) 42

5. **Çevresi 16 br olan kaç kare vardır?**

How many squares with perimeter of 16 units exist?

A) 4 B) 8 C) 12 D) 14 E) 16

6.

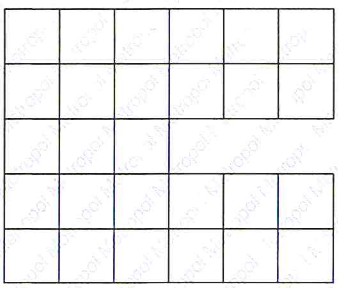


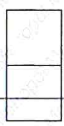
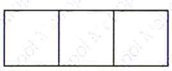
Yukarıdaki şekil kenar uzunlukları 1 br olan eş karelerden oluştuğuna göre; herhangi bir köşesinden kenar uzunluğu 2 br olan kare kesildiğinde en az eş kaç üçgen oluşturulur?

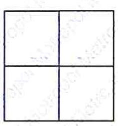
According to the fact that the figure above consists of equally shaped squares with side lenghts of 1 unit, if a square with side lenghts of two units gets cut from a corner of this figure, at least how many equally shaped triangles can be obtained?

A) 10 B) 12 C) 14 D) 15 E) 17

7.



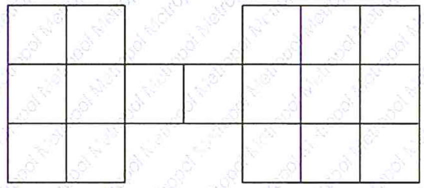
 = x 18,  = x k,

 = x ℓ

$\Rightarrow$ **$k + \ell = ?$**

A) 29 B) 31 C) 32 D) 36 E) 41

8.

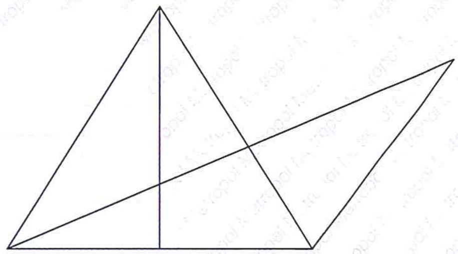


Yukarıdaki şekilde kaç tane kare vardır?

How many squares exist in the figure above?

A) 20 B) 21 C) 22 D) 23 E) 24

9.

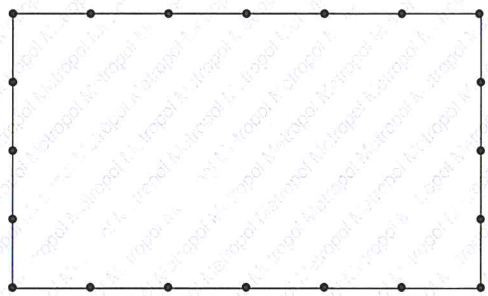


Yukarıdaki şekilde kaç üçgen vardır?

How many triangles exist in the figure above?

A) 10 B) 11 C) 12 D) 13 E) 14

10.



Yukarıdaki şekilde en az kaç kare oluşturulabilir?

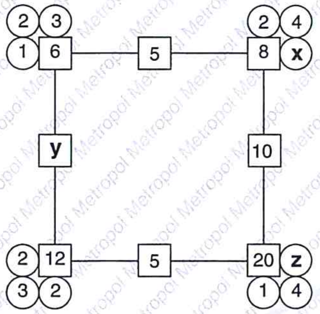
At least how many squares can be obtained in the figure above?

A) 3 B) 12 C) 24 D) 36 E) 48

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	B	D	D	C	C	B	E	A	A

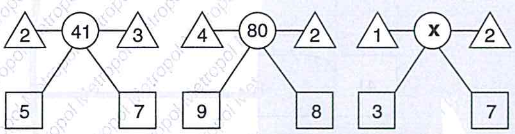
1.



$\Rightarrow$ x = ?; y = ?; z = ?

A) 1; 18; 5 B) 2; 18; 15 C) 1; 9; 5 D) 1; 9; 15 E) 2; 18; 5

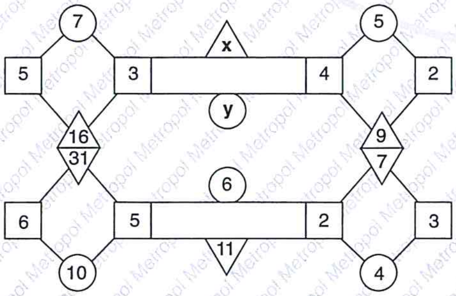
2.



$\Rightarrow$ x = ?

A) 10 B) 11 C) 18 D) 23 E) 25

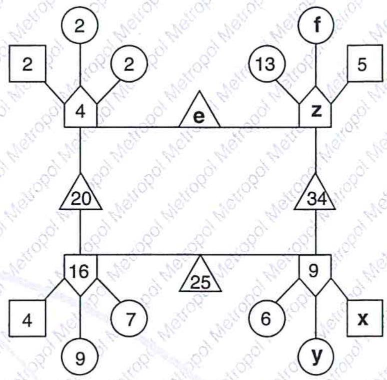
3.



$\Rightarrow (x - y)^2 = ?$

A) 9 B) 16 C) 25 D) 36 E) 49

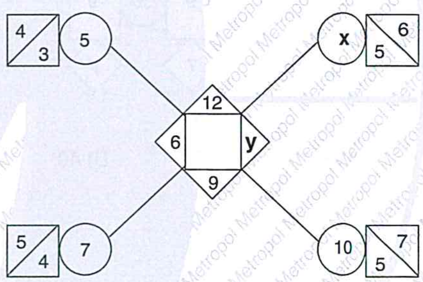
4.



$\Rightarrow$ x + y + z + e + f = ?

A) 70 B) 71 C) 72 D) 73 E) 74

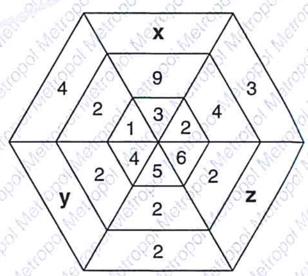
5.



$\Rightarrow$ x + y = ?

A) 12 B) 13 C) 14 D) 15 E) 16

6.



$\Rightarrow \left(\frac{x+y+z}{2}\right)^2$

A) 16 B) 25 C) 36 D) 49 E) 64

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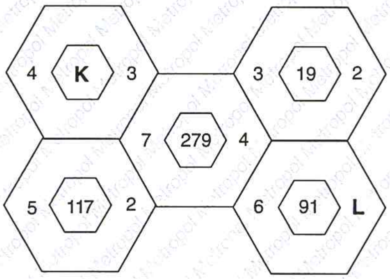
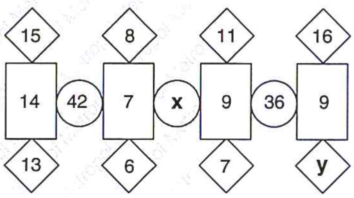
7.



⇒ K + L = ?

A) 40 B) 41 C) 42 D) 43 E) 44

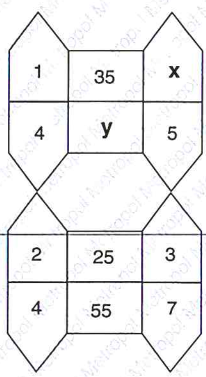
8.



⇒ x + y = ?

A) 34 B) 36 C) 38 D) 40 E) 42

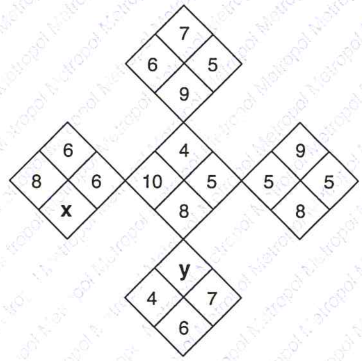
9.



⇒ x + y = ?

A) 49 B) 50 C) 51 D) 52 E) 53

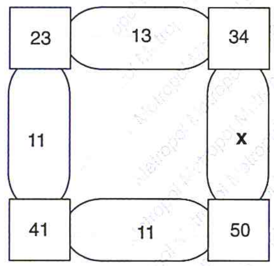
10.



⇒ x + y = ?

A) 16 B) 17 C) 18 D) 19 E) 20

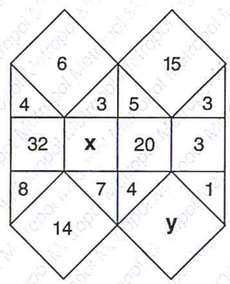
11.



⇒ x = ?

A) 12 B) 13 C) 14 D) 15 E) 16

12.



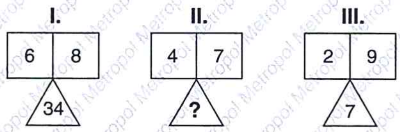
⇒ x + y = ?

A) 35 B) 36 C) 37 D) 38 E) 39

YANITLAR / ANSWERS

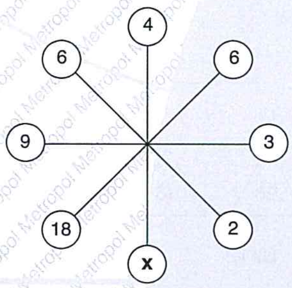
1	2	3	4	5	6	7	8	9	10	11	12
C	D	E	C	A	C	C	A	C	B	B	A

1.



A) 17 B) 18 C) 19 D) 20 E) 21

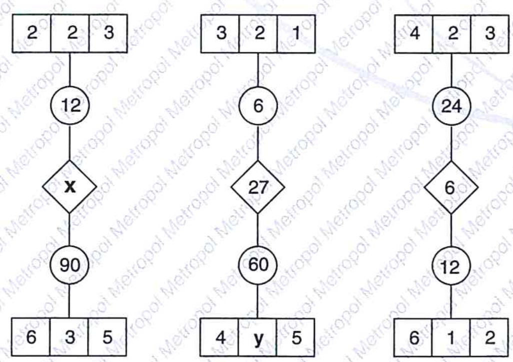
2.



$\Rightarrow$ x = ?

A) 8 B) 12 C) 15 D) 18 E) 21

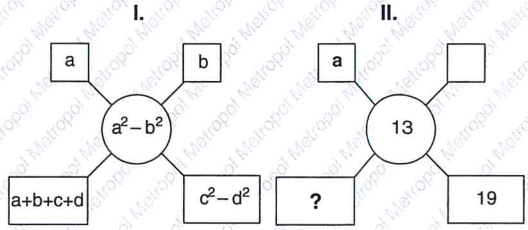
3.



$\Rightarrow$ x + y = ?

A) 21 B) 38 C) 42 D) 52 E) 64

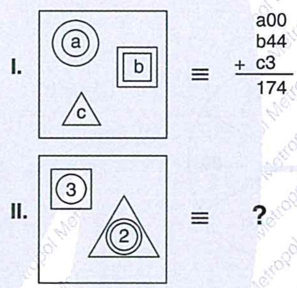
4.



$\Rightarrow$ a + b + c + d = ?

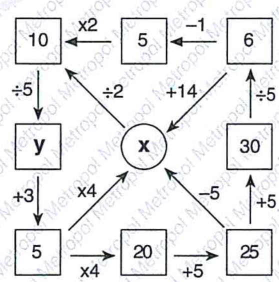
A) 32 B) 34 C) 36 D) 38 E) 40

5.



A) 2304 B) 543 C) 5403 D) 5043 E) 20045

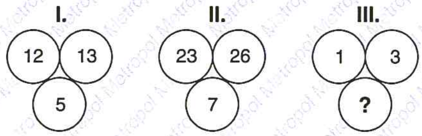
6.



$\Rightarrow$ x + y = ?

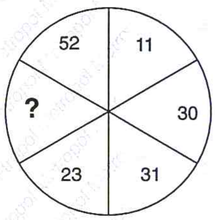
A) 14 B) 16 C) 18 D) 20 E) 22

7.



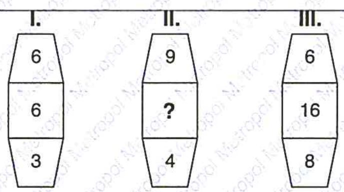
A) 2 B) 3 C) 5 D) 6 E) 8

8.



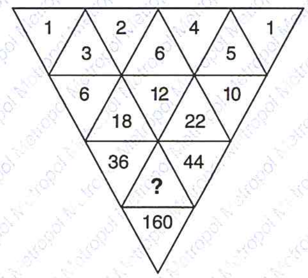
A) 72 B) 69 C) 51 D) 37 E) 28

9.



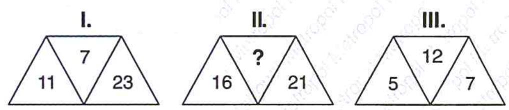
A) 3 B) 6 C) 7 D) 8 E) 12

10.



A) 20 B) 30 C) 40 D) 80 E) 120

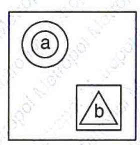
11.



A) 10 B) 12 C) 14 D) 16 E) 35

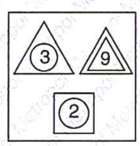
12.

I.



$\equiv 4x((a^2)^2 + (\frac{b}{3}) x 4)$

II.



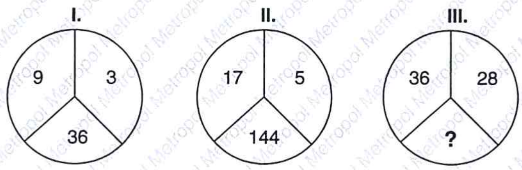
$\equiv$ **?**

A) 36 B) 48 C) 52 D) 54 E) 80

YANITLAR / ANSWERS

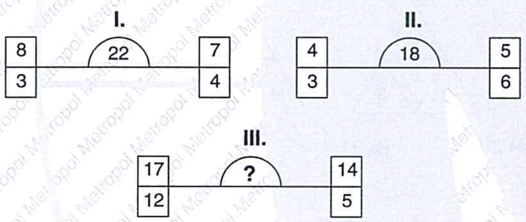
1	2	3	4	5	6	7	8	9	10	11	12
A	B	C	A	D	E	A	C	E	D	A	E

1.



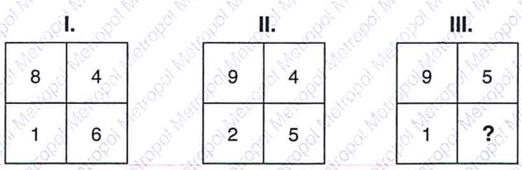
A) 25 B) 36 C) 48 D) 64 E) 75

2.



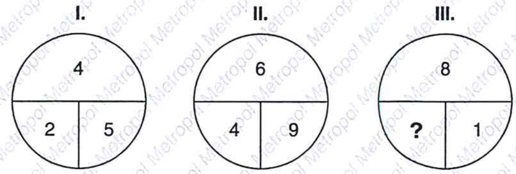
A) 41 B) 42 C) 45 D) 46 E) 48

3.



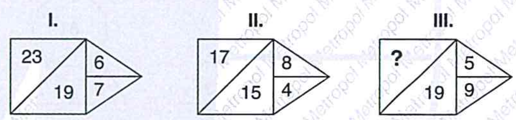
A) 2 B) 3 C) 5 D) 6 E) 7

4.



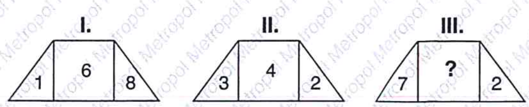
A) 8 B) 9 C) 10 D) 11 E) 12

5.



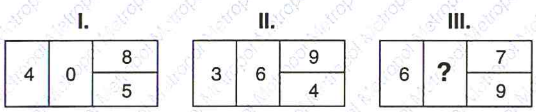
A) 20 B) 22 C) 26 D) 28 E) 30

6.



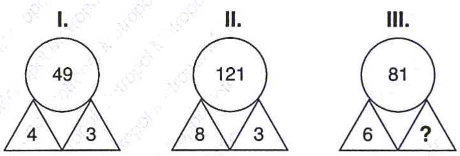
A) 10 B) 11 C) 12 D) 13 E) 14

7.



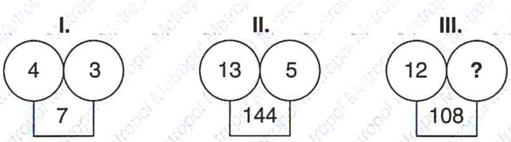
A) 1 B) 3 C) 4 D) 5 E) 6

8.



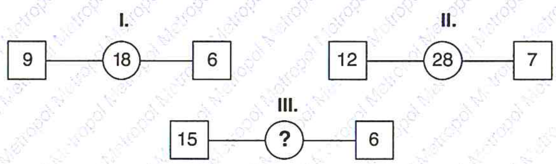
A) 1 B) 3 C) 4 D) 5 E) 6

9.



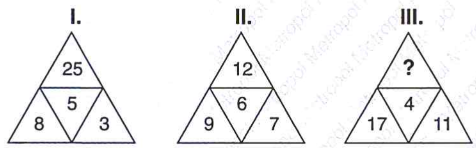
A) 6 B) 7 C) 8 D) 9 E) 10

10.



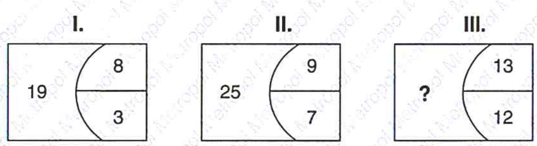
A) 29 B) 30 C) 31 D) 33 E) 35

11.



A) 20 B) 21 C) 24 D) 28 E) 32

12.

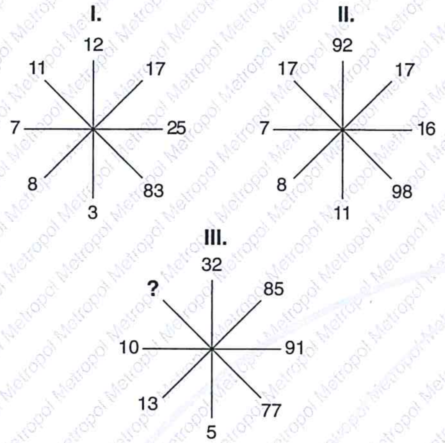


A) 30 B) 32 C) 34 D) 36 E) 38

YANITLAR / ANSWERS

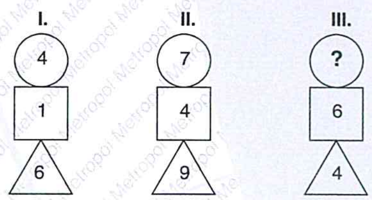
1	2	3	4	5	6	7	8	9	10	11	12
D	E	D	A	C	C	B	B	A	B	C	E

1.



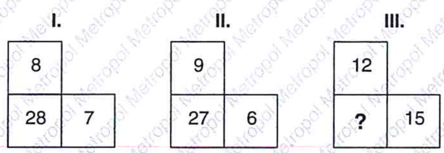
A) 10 B) 11 C) 12 D) 13 E) 14

2.



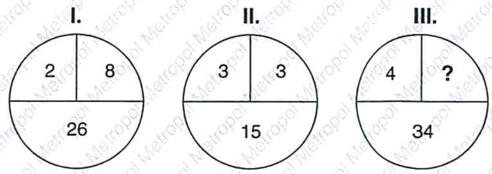
A) 8 B) 7 C) 6 D) 5 E) 4

3.



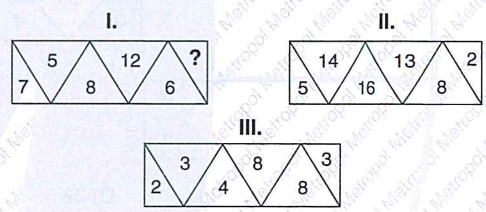
A) 82 B) 84 C) 86 D) 88 E) 90

4.



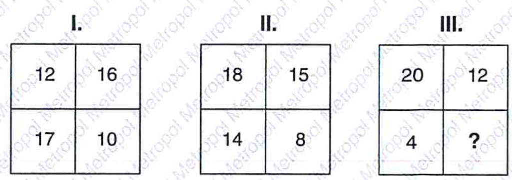
A) 1 B) 2 C) 4 D) 5 E) 6

5.



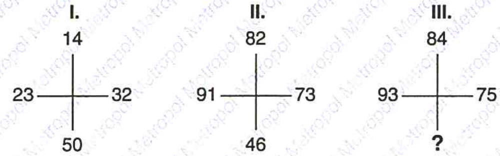
A) 1 B) 2 C) 3 D) 4 E) 5

6.



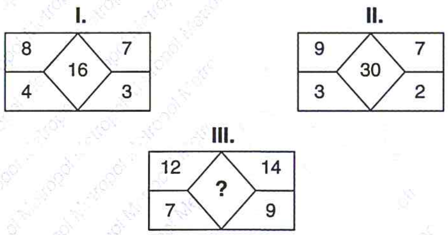
A) 17 B) 18 C) 19 D) 20 E) 21

7.



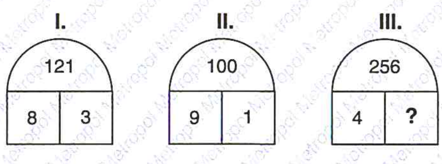
A) 55 B) 66 C) 73 D) 82 E) 91

8.



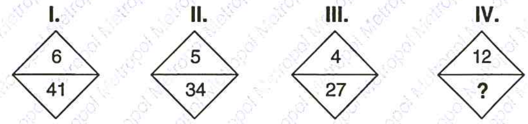
A) 20 B) 25 C) 30 D) 32 E) 34

9.



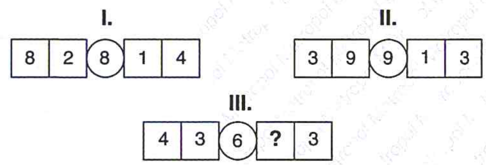
A) 11 B) 12 C) 13 D) 14 E) 15

10.



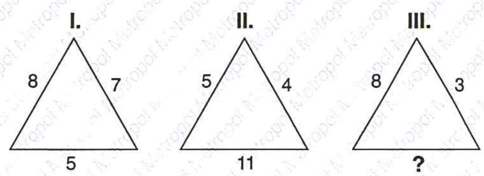
A) 80 B) 82 C) 83 D) 84 E) 85

11.



A) 1 B) 2 C) 4 D) 5 E) 7

12.

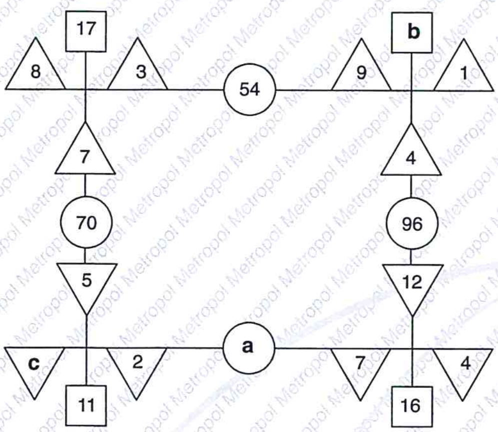


A) 5 B) 6 C) 8 D) 9 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	A	E	E	D	C	B	B	B	C	A	D

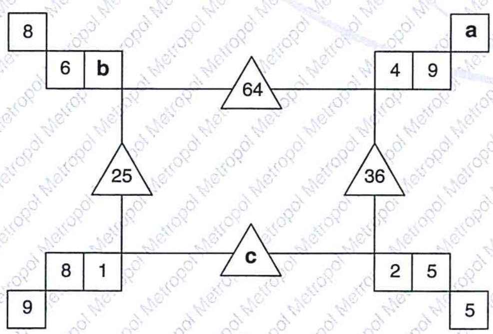
1.



$\Rightarrow$ **a − b − c = ?**

A) 13 B) 14 C) 15 D) 16 E) 17

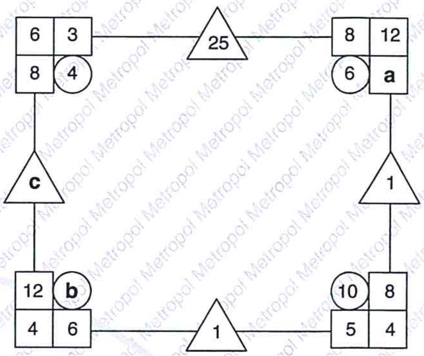
2.



$\Rightarrow$ **a + b − c = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

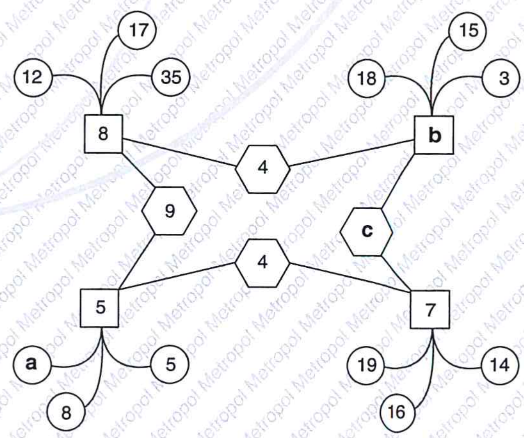
3.



$\Rightarrow$ **b − c + a = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

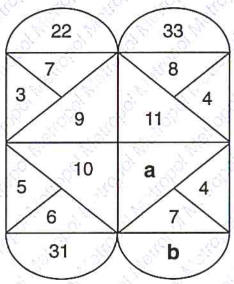
4.



$\Rightarrow \dfrac{\mathbf{a \times c}}{\mathbf{b}} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

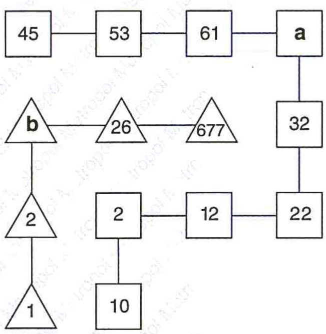
5.



⇒ a + b = ?

A) 38 B) 39 C) 40 D) 41 E) 42

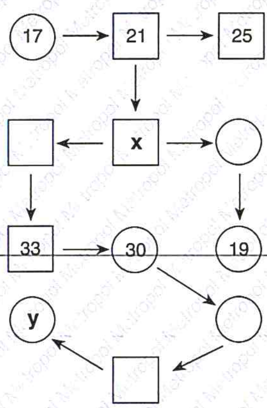
6.



⇒ a; b = ?

A) 42; 5 B) 34; 6 C) 34; 5 D) 42; 6 E) 24; 6

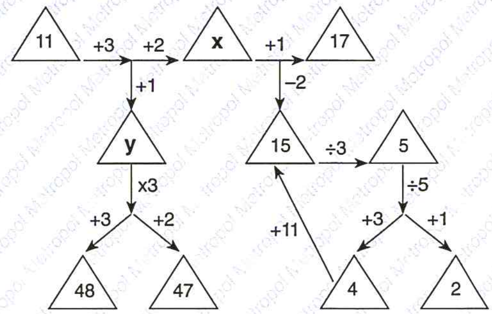
7.



⇒ x + y = ?

A) 53 B) 54 C) 55 D) 56 E) 57

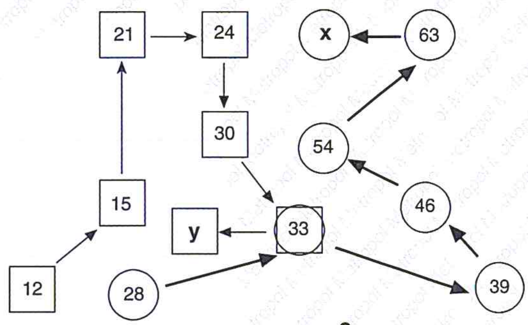
8.



⇒ x + y = ?

A) 21 B) 25 C) 31 D) 46 E) 52

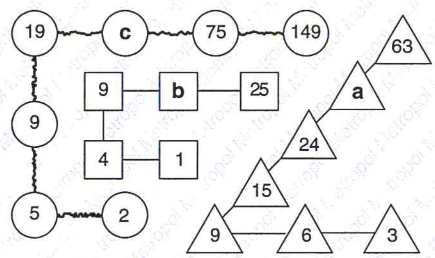
9.



⇒ x + y = ?

A) 110 B) 112 C) 114 D) 116 E) 118

10.



⇒ a − c + b = ?

A) 16 B) 17 C) 18 D) 19 E) 20

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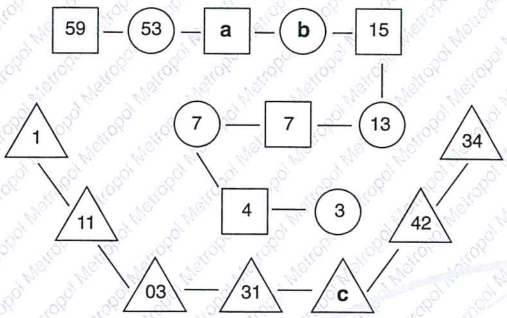
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	A	D	B	B	A	A	C	B	C

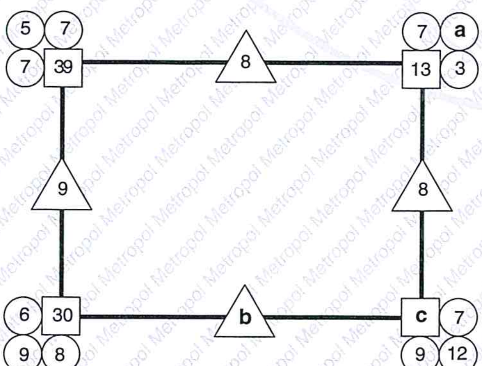
1.



$\Rightarrow$ **a ; b ; c = ?**

A) 29; 28; 23 B) 29; 27; 23 C) 28; 27; 23 D) 29; 28; 22 E) 28; 27; 22

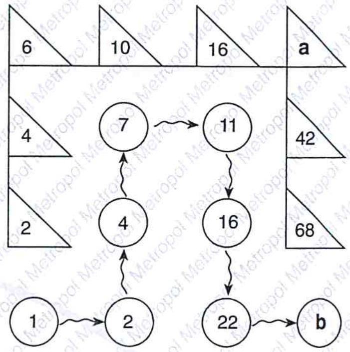
2.



$\Rightarrow$ **a + b + c = ?**

A) 52 B) 51 C) 50 D) 49 E) 48

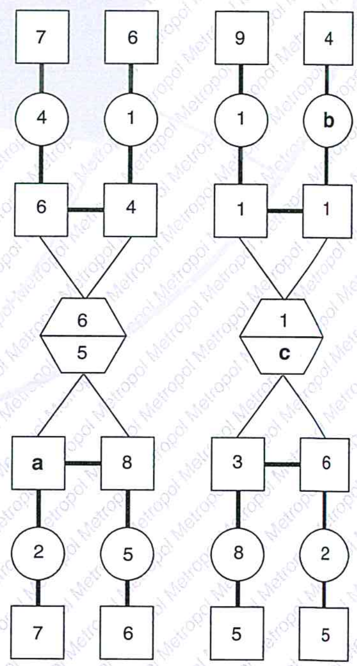
3.



$\Rightarrow$ **b – a = ?**

A) 3 B) 4 C) 5 D) 6 E) 7

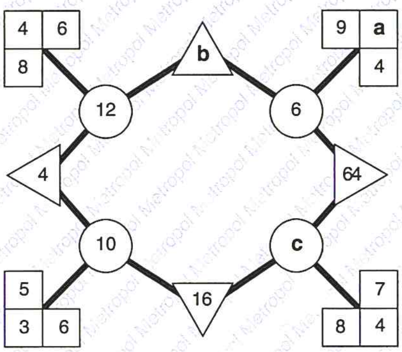
4.



$\Rightarrow$ **a + b – c = ?**

A) 0 B) 1 C) 2 D) 3 E) 4

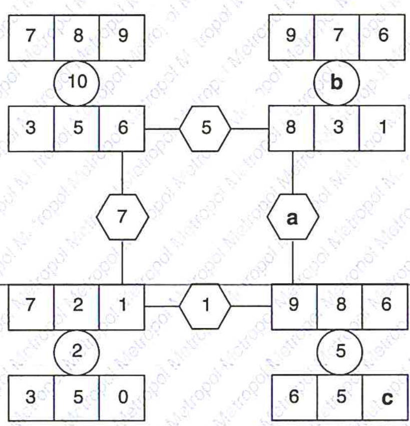
5.



$\Rightarrow a^2 - b + c = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

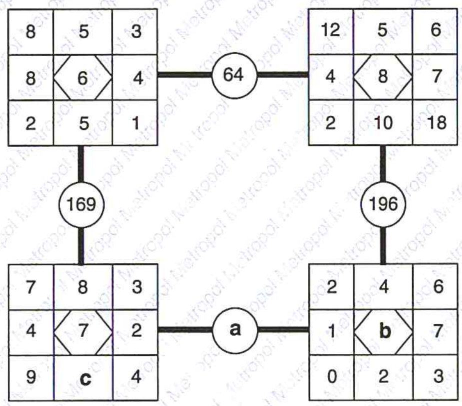
6.



$\Rightarrow a + c - b = ?$

A) 1 B) 2 C) 3 D) 5 E) 6

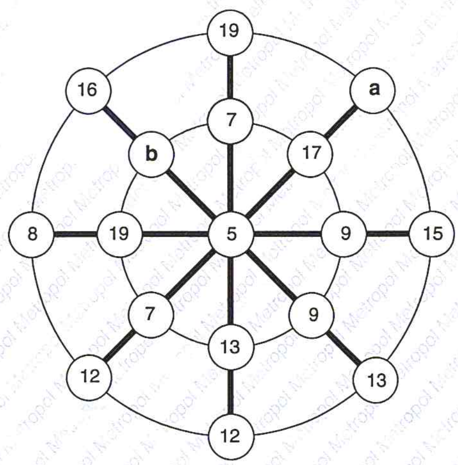
7.



$\Rightarrow a + b - c = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

8.



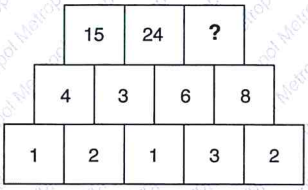
$\Rightarrow a - b = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

YANITLAR / ANSWERS

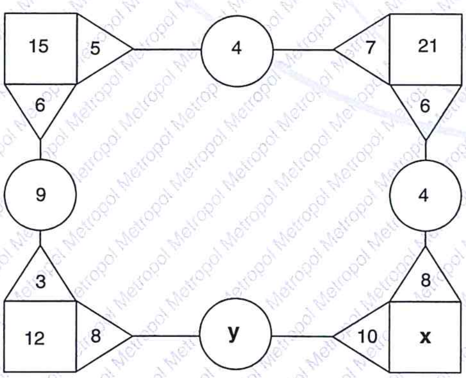
1	2	3	4	5	6	7	8
B	A	A	A	E	D	C	C

1.



A) 40 B) 44 C) 48 D) 52 E) 56

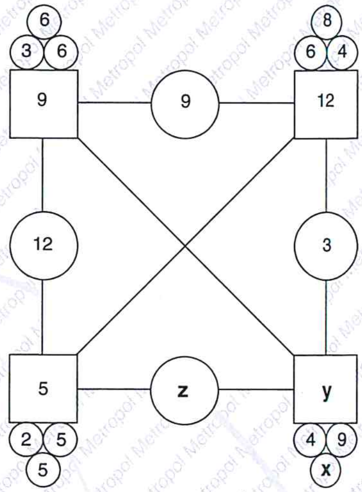
2.



⇒ x + y = ?

A) 36 B) 38 C) 40 D) 42 E) 44

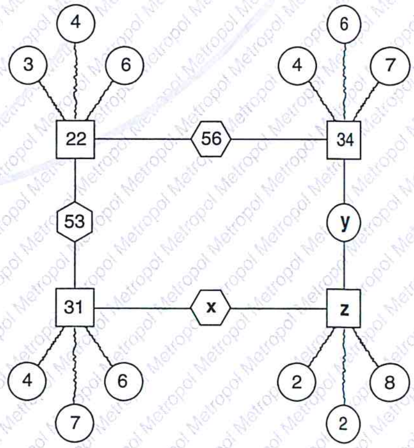
3.



⇒ x; y; z = ?

A) 6 ; 18; 13 B) 7 ; 18 ; 2 C) 6 ; 13 ; 18
D) 7 ; 13 ; 24 E) 7 ; 18 ; 24

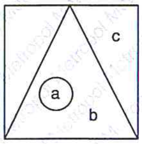
4.



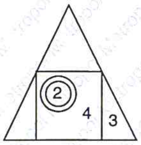
⇒ y − x + z = ?

A) 20 B) 21 C) 22 D) 23 E) 24

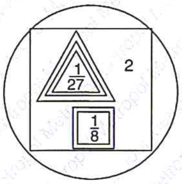
5.

I. 

≡ $4\cdot[\,3\cdot(a^2+b)\cdot c]$

II. 

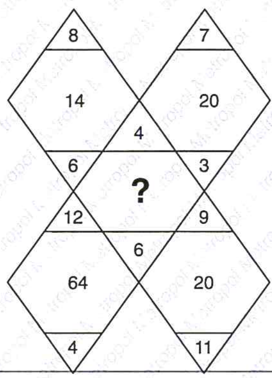
≡ 777

III. 

≡ ?

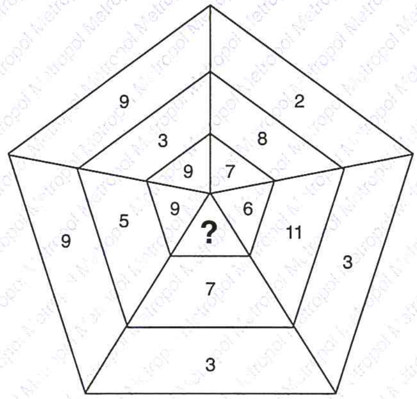
A) 16 B) 36 C) 64
D) 144 E) 256

6.



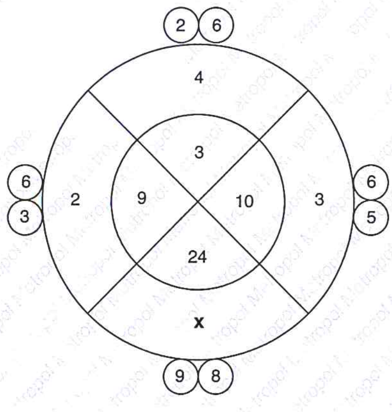
A) 8
B) 9
C) 10
D) 11
E) 12

7.



A) 1
B) 2
C) 3
D) 4
E) 5

8.



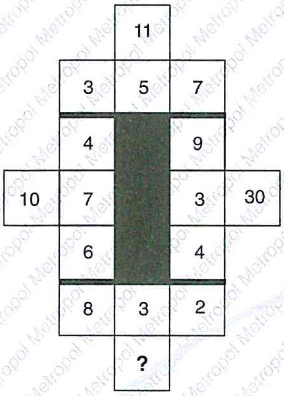
⇒ x = ?

A) 3 B) 4 C) 5
D) 6 E) 7

YANITLAR / ANSWERS

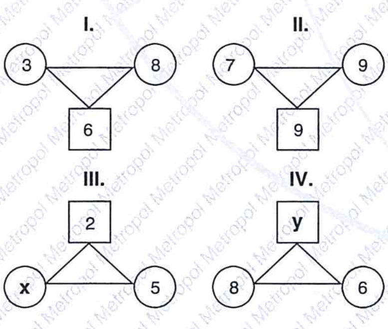
1	2	3	4	5	6	7	8
E	E	D	B	E	C	C	A

1.



A) 10
B) 8
C) 6
D) 4
E) 2

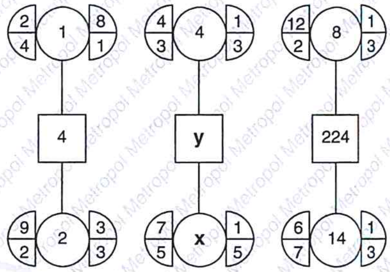
2.



$\Rightarrow$ x + y = ?

A) 16
B) 18
C) 20
D) 22
E) 24

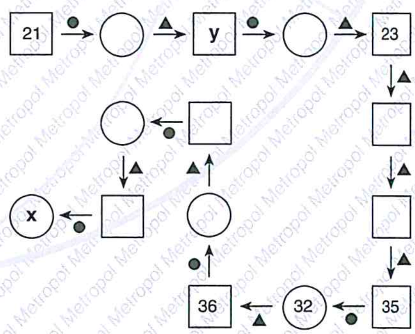
3.



$\Rightarrow$ y − x = ?

A) 46
B) 47
C) 48
D) 49
E) 50

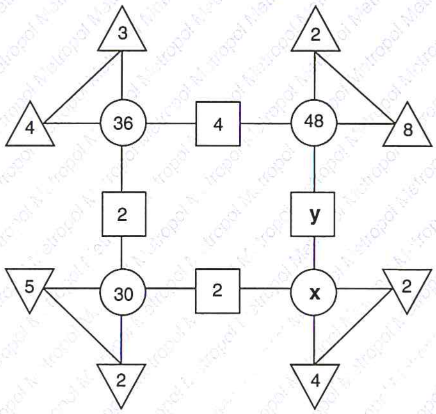
4.



$\Rightarrow$ x + y = ?

A) 33
B) 57
C) 88
D) 90
E) 105

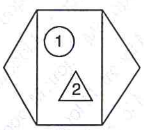
5.

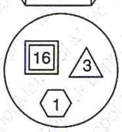


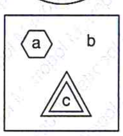
$\Rightarrow$ **x + y = ?**

A) 26 B) 28 C) 30 D) 32 E) 34

6.

I.  $\equiv \left(\frac{3 \cdot 2 + 10}{4}\right)^6$

II.  $\equiv 110$

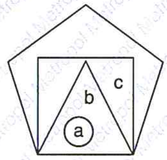
III.  $\equiv$ **?**

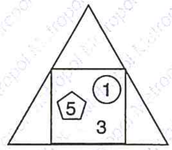
A) $\frac{a^6 - b + 9c}{4}$ B) $\frac{a^6 + b - 9c}{4}$

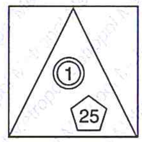
C) $\frac{a^6 + b + 9c}{4}$ D) $\frac{a^6 + b + 9c}{3}$

E) $\left(\frac{a^6 + b + 9c}{4}\right)^2$

7.

I.  $\equiv \frac{4(3(a0 + b) + c)}{5}$

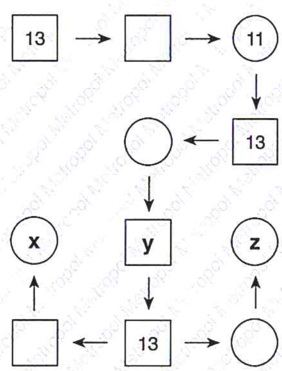
II.  $\equiv 168$

III.  $\equiv$ **?**

A) 1260 B) 1270 C) 1280

D) 1290 E) 1300

8.



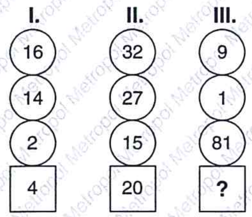
$\Rightarrow$ **x + y + z = ?**

A) 24 B) 25 C) 26 D) 27 E) 28

YANITLAR / ANSWERS

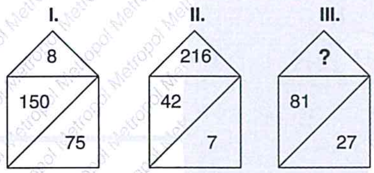
1	2	3	4	5	6	7	8
A	A	D	B	D	C	A	D

1.



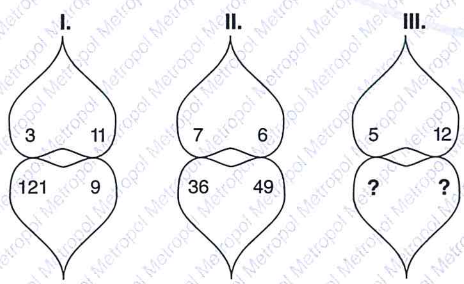
A) 25 B) 34 C) 50 D) 89 E) 162

2.



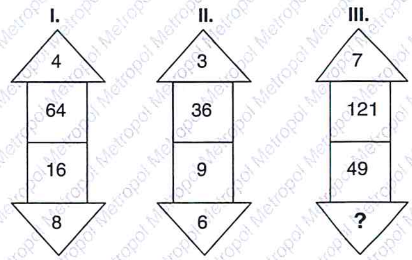
A) 2 B) 9 C) 27 D) 50 E) 117

3.



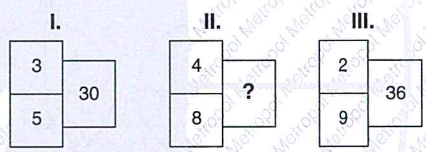
A) 42; 24 B) 25; 12 C) 12; 5
D) 144; 5 E) 144; 25

4.



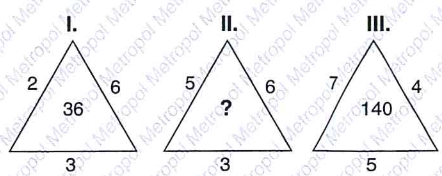
A) 3 B) 5 C) 9 D) 11 E) 13

5.



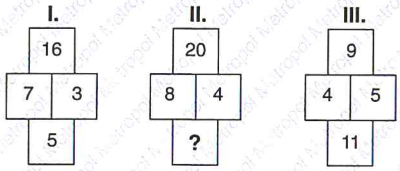
A) 64 B) 50 C) 32 D) 16 E) 4

6.



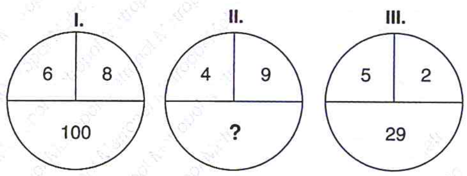
A) 64 B) 81 C) 90 D) 126 E) 133

7.



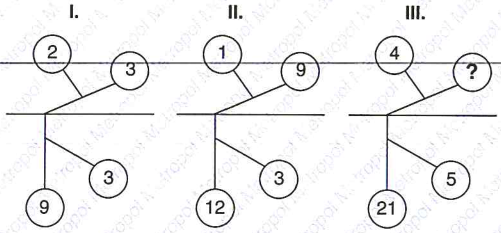
A) 21 B) 18 C) 12 D) 9 E) 3

8.



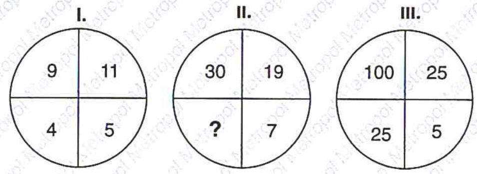
A) 97 B) 64 C) 33 D) 19 E) 11

9.



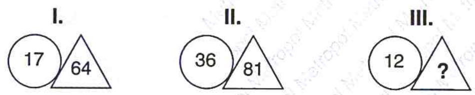
A) 1 B) 4 C) 8 D) 13 E) 21

10.



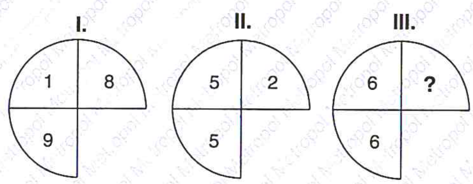
A) 6 B) 7 C) 11 D) 25 E) 63

11.



A) 9 B) 11 C) 25 D) 34 E) 98

12.



A) 1 B) 3 C) 5 D) 8 E) 11

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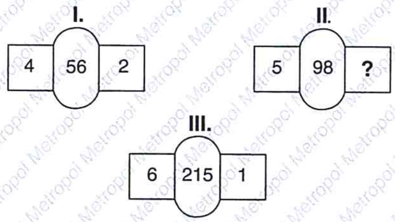
YANITLAR / ANSWERS

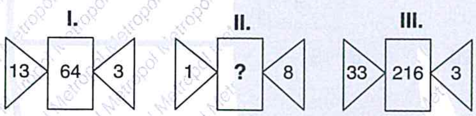
1	2	3	4	5	6	7	8	9	10	11	12
D	C	E	D	A	C	C	A	B	B	A	B

1.



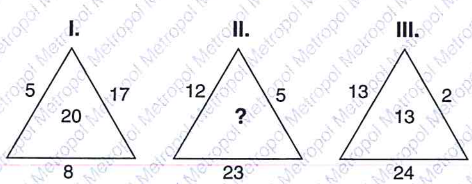
A) 3 B) 9 C) 27 D) 36 E) 42

2.



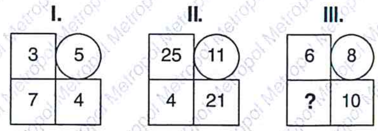
A) 81 B) 63 C) 54 D) 42 E) 27

3.



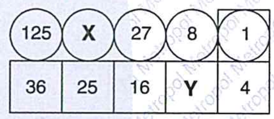
A) 16 B) 18 C) 23 D) 29 E) 33

4.



A) 19 B) 13 C) 9 D) 4 E) 2

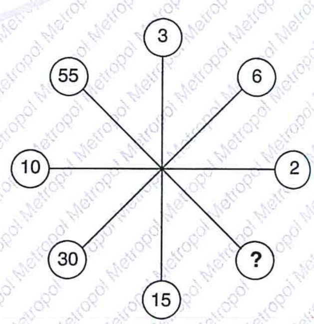
5.



⇒ X; Y = ?

A) 16; 3 B) 16; 9 C) 64; 3 D) 64; 9 E) 8; 3

6.



A) 4 B) 5 C) 7 D) 9 E) 11

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7.

			1			
		1	2	1		
	1	2	5	1	1	
2	8	13	x	9	3	1
	7	6	18	3	2	
		4	y	4		
			2			

$\Rightarrow$ x; y = ?

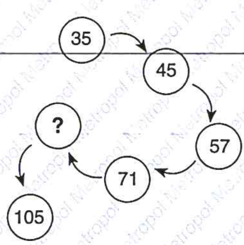
A) 12; 4 B) 16; 2 C) 25; 8 D) 1; 1 E) 36; 8

8.

33	24	21	17	13	5
	9	?	4	4	8
8	1	2	2	2	6

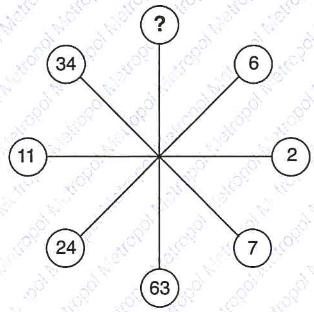
A) 11 B) 6 C) 5 D) 4 E) 3

9.



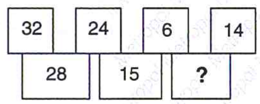
A) 87 B) 81 C) 79 D) 77 E) 73

10.



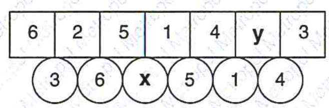
A) 1 B) 9 C) 13 D) 42 E) 64

11.



A) 20 B) 13 C) 10 D) 8 E) 5

12.



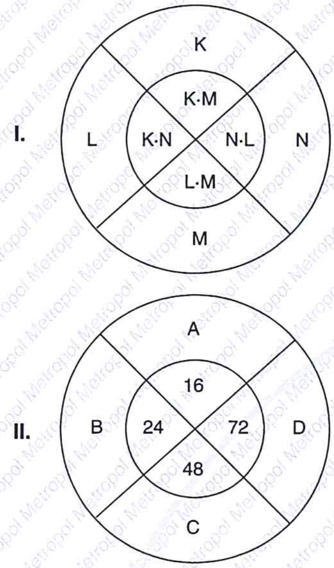
$\Rightarrow$ x; y = ?

A) 4; 2 B) 2; 0 C) 6; 5 D) 2; 3 E) 12; 2

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	E	A	C	D	E	E	E	A	B	C	B

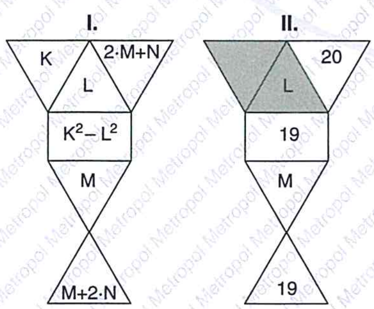
1.



$\Rightarrow (A + B)\cdot(C + D) = ?$

A) 152 B) 154 C) 156 D) 158 E) 160

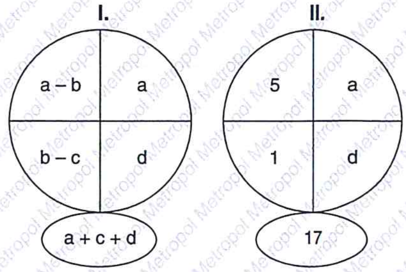
2.



$\Rightarrow K + L + M + N = ?$

A) 28 B) 32 C) 54 D) 63 E) 8

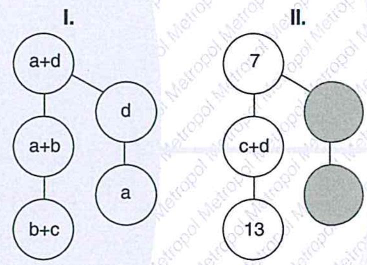
3.



$\Rightarrow 2a + d = ?$

A) 11 B) 12 C) 16 D) 21 E) 23

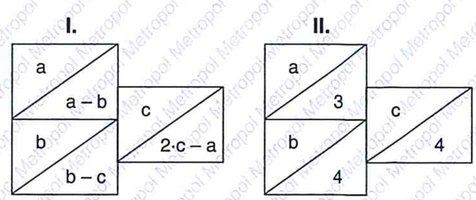
4.



$\Rightarrow a + b = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

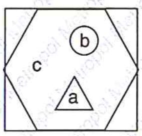
5.



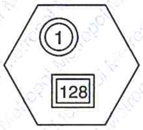
$\Rightarrow a + b + c = ?$

A) 40 B) 44 C) 48 D) 52 E) 60

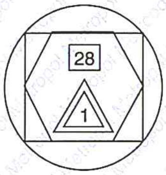
6.

I. 

$\equiv \dfrac{\left[a^3 + b0 + c\right]^2}{4}$

II. 

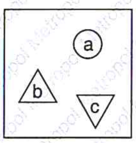
$\equiv (108)^2$

III. 

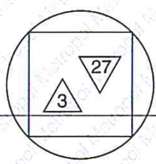
$\equiv$ **?**

A) 150 B) 155 C) 160 D) 165 E) 170

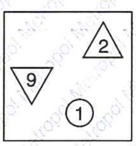
7.

I. 

$\equiv \left[a0 + 3\cdot b + \dfrac{c}{3}\right]\cdot 4$

II. 

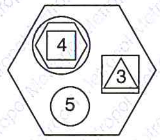
$\equiv$ 720

III. 

$\equiv$ **?**

A) 73 B) 74 C) 75 D) 76 E) 77

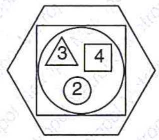
8.

I. 

$\equiv$ [((4+4+6+1) + (3+3+4) + (5+1))+6]

II. 

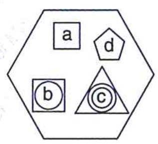
$\equiv$ 21

III. 

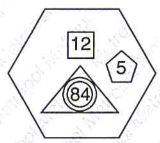
$\equiv$ **?**

A) 26 B) 27 C) 28 D) 29 E) 30

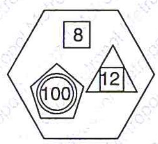
9.

I. 

$\equiv \left(\dfrac{a}{4} + \dfrac{b}{8} + \dfrac{c}{12} + \dfrac{d}{5}\right)$

II. 

$\equiv$ 11

III. 

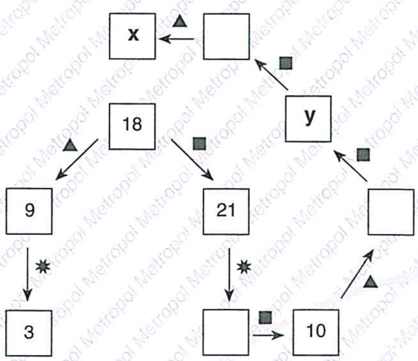
$\equiv$ **?**

A) 6 B) 7 C) 8 D) 9 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9
E	B	E	B	B	C	D	C	C

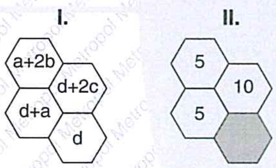
1.



$\Rightarrow 2x - y = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

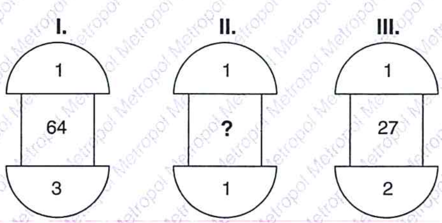
2.



$\Rightarrow b + c = ?$

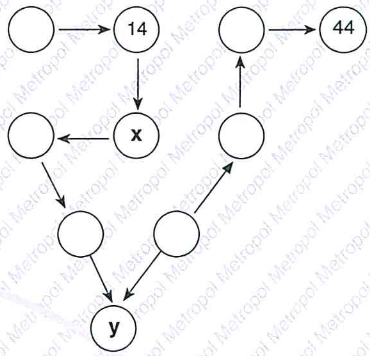
A) 3 B) 5 C) 8 D) 10 E) 15

3.



A) 2 B) 4 C) 6 D) 8 E) 16

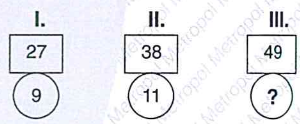
4.



$\Rightarrow x + y = ?$

A) 51 B) 52 C) 53 D) 54 E) 55

5.



A) 10 B) 11 C) 12 D) 13 E) 14

6.

I.

9	3	6

II.

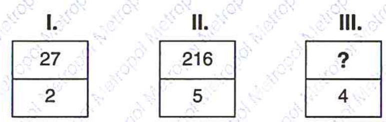
4	1	6

III.

5	2	?

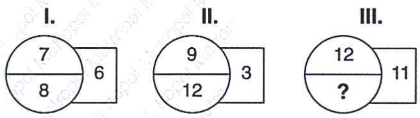
A) 0 B) 1 C) 2 D) 3 E) 4

7.



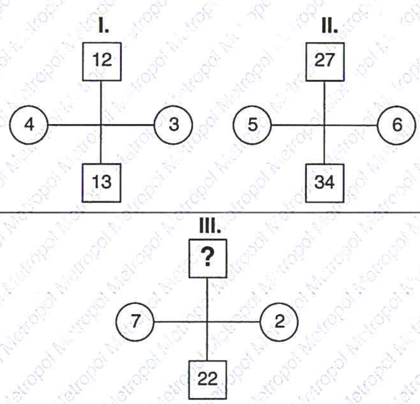
A) 135 B) 125 C) 81 D) 64 E) 36

8.



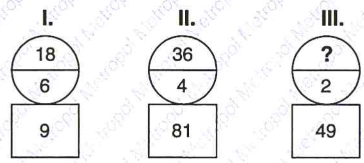
A) 10 B) 11 C) 13 D) 15 E) 17

9.



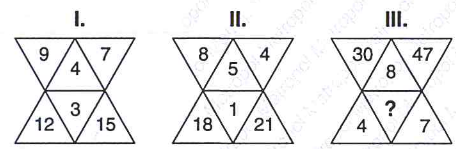
A) 30 B) 31 C) 32 D) 33 E) 34

10.



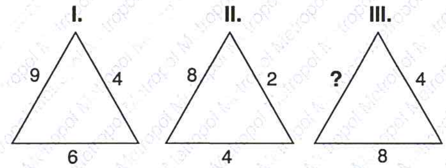
A) 10 B) 11 C) 12 D) 13 E) 14

11.



A) 5 B) 6 C) 7 D) 8 E) 9

12.



A) 11 B) 13 C) 15 D) 16 E) 18

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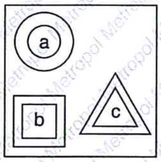
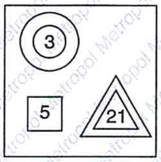
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	D	C	D	A	B	E	B	E	D	D

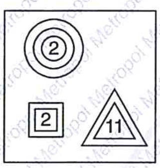
1.

I. 

$\equiv (a + 2 + 2) + (5 \cdot 5 \cdot b) + (c - 8 - 8)$

II. 

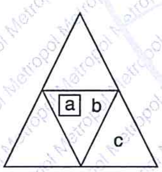
$\equiv 7 + 25 + 5$

III. 

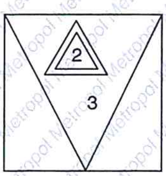
$\equiv$ **?**

A) 53 B) 52 C) 51 D) 50 E) 49

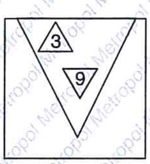
2.

I. 

$\equiv 3 \cdot \left(\frac{4a + b}{3} + c\right)$

II. 

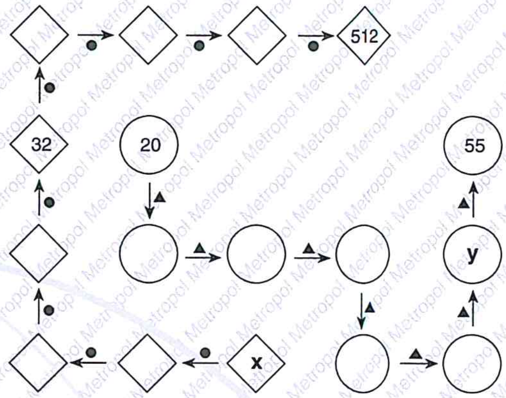
$\equiv$ 28

III. 

$\equiv$ **?**

A) 4 B) 8 C) 12 D) 16 E) 20

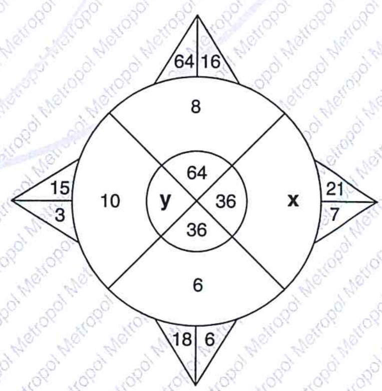
3.



$\Rightarrow \frac{y}{x} = ?$

A) 35 B) 32 C) 28 D) 25 E) 20

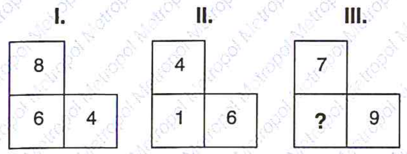
4.



$\Rightarrow x + y = ?$

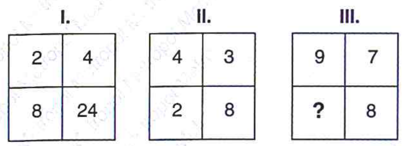
A) 97 B) 100 C) 103 D) 106 E) 109

5.



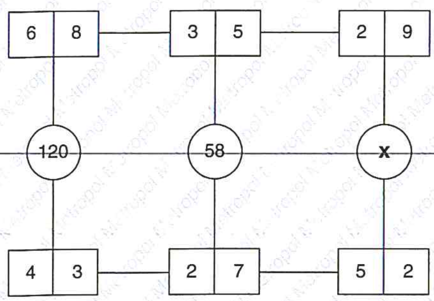
A) 1 B) 2 C) 4 D) 5 E) 6

6.



A) 1 B) 2 C) 3 D) 4 E) 5

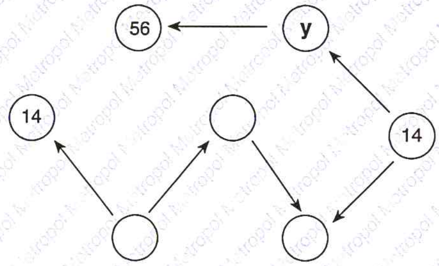
7.



⇒ x = ?

A) 36 B) 40 C) 49 D) 56 E) 60

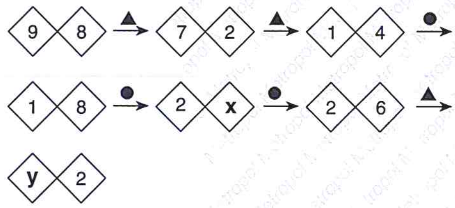
8.



⇒ y = ?

A) 2 B) 7 C) 14 D) 28 E) 56

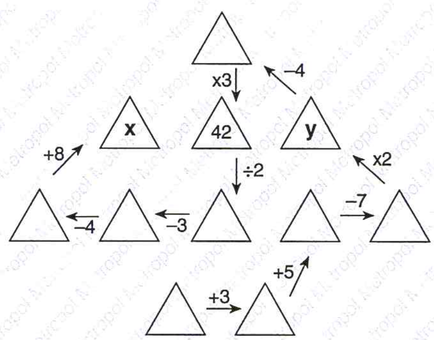
9.



⇒ x + y = ?

A) 1 B) 2 C) 3 D) 4 E) 5

10.



⇒ x – y = ?

A) 6 B) 5 C) 4 D) 3 E) 2

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
A	D	D	D	C	B	D	D	C	C

1.

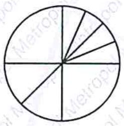
I.  $\longrightarrow$ 1, 1, 2, 1

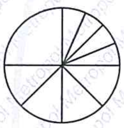
II.  $\longrightarrow$ 1, 2, 1, 3

III.  $\longrightarrow$?

A) 3, 2, 1, 1
B) 3, 2, 1, 3
C) 3, 1, 2, 1
D) 1, 3, 2, 1
E) 1, 2, 3, 1

2.

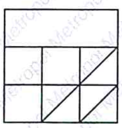
I.  $\longrightarrow$ 2a + 2b + 4c

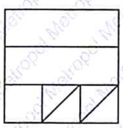
II.  $\longrightarrow$ a + 4b + 4c

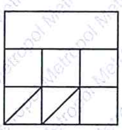
III.  $\longrightarrow$?

A) 2b + 3a + 7c
B) 2a + 4b + c
C) 4a + 8c + 2b
D) a + 2b + 8c
E) b + 4a + 8c

3.

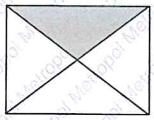
I.  $\longrightarrow$ 6a + 3b + c

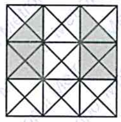
II.  $\longrightarrow$ 4a + b + 2c

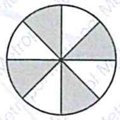
III.  $\longrightarrow$?

A) 2(a + c) + 3b
B) 4(a+ b) + c
C) 4(a + c) + b
D) 2(a + b + c)
E) 4a + 3b + c4.

4.

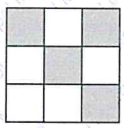
I.  $\equiv \frac{1}{4} + 4$

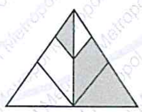
II.  $\equiv \frac{109}{3}$

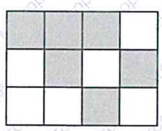
III.  $\equiv$?

A) $\frac{9}{2}$
B) $\frac{11}{2}$
C) $\frac{13}{2}$
D) $\frac{15}{2}$
E) $\frac{17}{2}$

5.

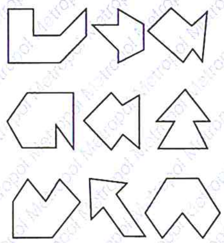
I.  $\equiv \frac{4 \cdot 5}{9}$

II.  $\equiv \frac{3}{2}$

III.  $\equiv$?

A) 2
B) 3
C) 4
D) 5
E) 6

6.



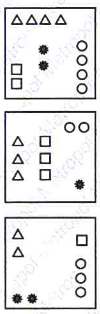
I. → 877

II. → 777

III. → ?

A) 887 B) 877 C) 788 D) 787 E) 777

7.



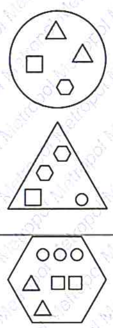
I. → 4 ; 4 ; 2 ; 2

II. → 3 ; 2 ; 1 ; 3

III. → ? ; ? ; ? ; ?

A) 3 ; 1 ; 2 ; 2 B) 2 ; 2 ; 3 ; 1 C) 1 ; 3 ; 2 ; 2 D) 2 ; 3 ; 2 ; 1 E) 2 ; 1 ; 3 ; 2

8.



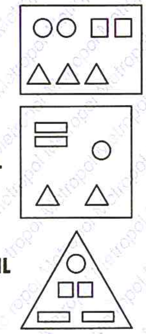
I. → a = b + 2c + d

II. → c = a + 2b + d

III. → ?

A) b = 2c + 2a + 3d B) b = 2d + 3c + 2a C) d = 3b + 2c + 2a D) b = 3a + 2d + 2c E) d = 3c + 2a + 2d

9.



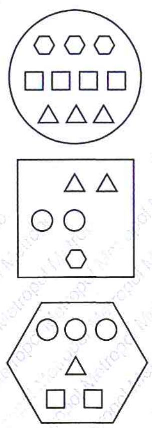
I. → L= 2K + 2Z + 3M

II. → K = 2L + 2M + Z

III. → ?

A) L = 2K + M + 2Z
B) L = 2M + K + 2Z
C) M = 3K + 2Z + L
D) M = 2L + 2K + Z
E) M = L + 2K + 2Z

10.



I. = a = 3b + 3c + 4d

II. = d = 2a + 2c + b

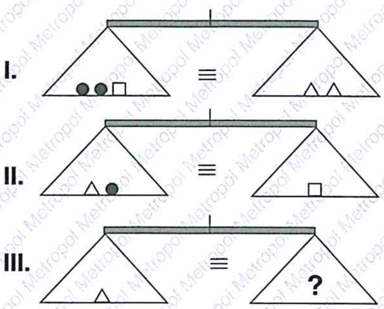
III. = ?

A) d = 3a + c + 2d
B) a = 3b + c + 2d
C) b = 2b + c + 3a
D) b = 3a + c + 2d
E) c = 2a + 3b + d

YANITLAR / ANSWERS

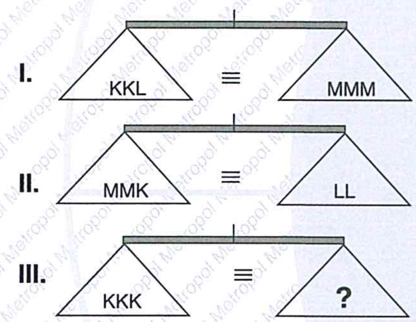
1	2	3	4	5	6	7	8	9	10
C	D	B	E	B	E	D	D	D	D

1.



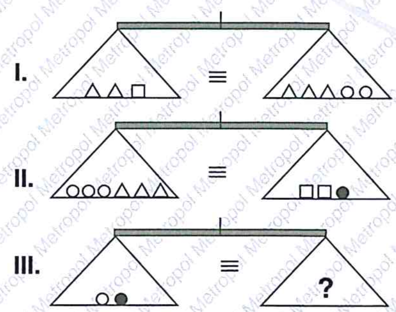
A) ●
B) ●□□
C) ●●●
D) □□
E) □●

2.



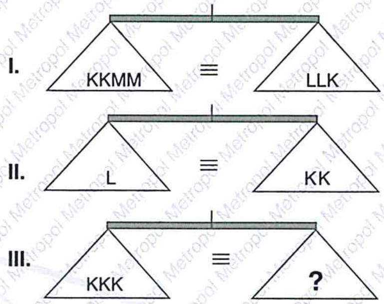
A) M
B) KL
C) ML
D) LLL
E) MK

3.



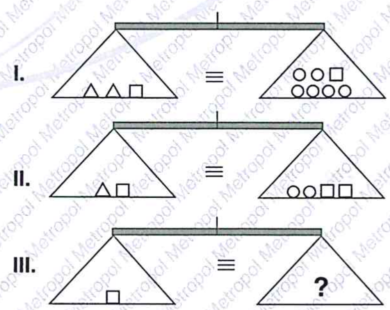
A) △
B) ○△●
C) □△△
D) △△
E) □●△

4.



A) K
B) KK
C) M
D) MM
E) L

5.



A) ○
B) ○○
C) △
D) △△
E) △○

6.

I. △△△ ○○○○ ■■■ ≡ 3 : 4 : 3

II. △ ○○○ ■■■ ≡ 3 : 3 : 1

III. ■■ ○ △△△ ≡ **?**

A) 2 : 1 : 3 B) 1 : 2 : 3 C) 1 : 3 : 2 D) 3 : 2 : 1 E) 2 : 3 : 3

7.

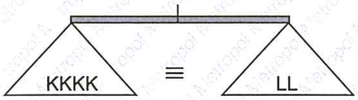
I. KKK LL MM ≡ 2 : 2 : 3

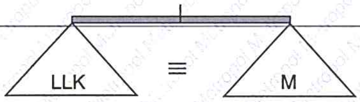
II. MMMM KKKK LL ≡ 4 : 2 : 4

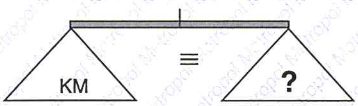
III. MMM KK LLLL ≡ **?**

A) 4 : 3 : 2 B) 3 : 4 : 2 C) 3 : 2 : 4 D) 2 : 4 : 3 E) 2 : 3 : 4

8.

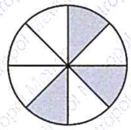
I.


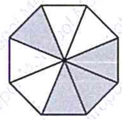
II.


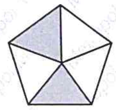
III.


A) L B) LL C) LLL D) LLLL E) LLLLL

9.

I.  $\equiv \frac{8}{3} + 5$

II.  $\equiv 6$

III.  $\equiv$ **?**

A) $\frac{3}{2}$ B) $\frac{5}{2}$ C) $\frac{7}{2}$ D) $\frac{9}{2}$ E) $\frac{11}{2}$

10.

I. AA BBB CC DD ⟶ 3, 2, 2, 2

II. CCC AA BBB D ⟶ 3, 3, 1, 2

III. CC DD B AAA ⟶ **?**

A) 1, 3, 2, 3
B) 1, 2, 3, 2
C) 2, 1, 3, 1
D) 1, 3, 2, 1
E) 1, 2, 2, 3

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10
C	C	A	D	A	A	B	C	E	E

1.

+	4	9	13
2			x
5	y		
8		z	

⇒ x + y + z = ?

A) 40 B) 41 C) 42 D) 43 E) 44

2.

+	a	b	c	d
a				
b				61
c	43			
d				

⇒ a + b + c + d = ?

A) 84 B) 94 C) 104 D) 114 E) 124

3.

+	x	y	z
x			24
y			
z		18	

⇒ x + y + 2z = ?

A) 6 B) 18 C) 24 D) 36 E) 42

4.

+	K	L	M	N
K				
L				
M			18	20

⇒ N = ?

A) 11 B) 12 C) 13 D) 14 E) 15

5.

+	a	b	c	d
a				
b			43	
c				
d	69			

⇒ a – b – c + d = ?

A) 24 B) 25 C) 26 D) 27 E) 28

6.

+	x	y	z	t
x	18			
y		12		
z			14	
t				16

⇒ x + y + z + t = ?

A) 26 B) 27 C) 28 D) 29 E) 30

7.

+	p	r	s
p		22	
r			19
s	33		

⇒ **p + r + s = ?**

A) 27 B) 37 C) 47 D) 57 E) 67

8.

+	x	y	z
x			44
y			
z	y		

⇒ **x + y + z = ?**

A) 68 B) 78 C) 88 D) 98 E) 108

9.

+	a	b	c
x		6	
y			
z			15
t	13		

a + b + c = 13

⇒ **x + z + t = ?**

A) 17 B) 18 C) 19 D) 20 E) 21

10.

+	a	b	c
a		c	
b			16
c			

⇒ **a + 2·b = ?**

A) 2 B) 4 C) 8 D) 16 E) 32

11.

+	x	y	z
x		20	
y			34
z	28		

⇒ **x + y + z = ?**

A) 21 B) 31 C) 41 D) 51 E) 61

12.

+	■	✺	☯
■	6	☯ – 1	
✺		10	
☯			

⇒ **☯ = ?**

A) 6 B) 7 C) 8 D) 9 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	E	A	C	E	B	C	E	D	C	D

1.

+	a	b	c
a		d	
b			f
c	e		

$\Rightarrow$ **2·(a + b + c) = ?**

A) d + e B) f + d C) e + f D) d – f E) d + e + f

2.

+	x	y	z
x	b		
y		c	
z			a

$\Rightarrow \dfrac{a+b+c}{2} = ?$

A) x + y + z B) $\dfrac{x+y+z}{2}$ C) 2x + 2y + 2z D) x + 2y + z E) 2(x + y – z)

3.

+	K	L	M	N
K			p	
L				
M				
N		r		

p – r = 12

$\Rightarrow$ **K – N + M – L = ?**

A) –12 B) 0 C) 12 D) 24 E) 36

4.

+	4	6	7
x			z
y	9		
z		3·y	

$\Rightarrow$ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

5.

+	a	b	c
a			
b		c	
c			28
d		27	

$\Rightarrow$ **d = ?**

A) 0 B) 5 C) 10 D) 15 E) 20

6.

+	x	y	z
x	16		
y			
z		10	8

$\Rightarrow$ **x + y – z = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

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7.

+	a	b	c
a		20	
b			10
c	18		

$\Rightarrow \dfrac{\mathbf{a+b+c}}{\mathbf{6}} = \mathbf{?}$

A) 1 B) 2 C) 3 D) 4 E) 5

8.

+	x	y	z
x		−13	
y			−21
z	−18		

$x, y, z \in Z^{-}$

$\Rightarrow \mathbf{x + y + z = ?}$

A) −25 B) −26 C) −27 D) −28 E) −29

9.

+	a	b	c
a		10	
b			
c		15	

$a + c = 11$

$\Rightarrow \mathbf{a + b + c = ?}$

A) 14 B) 15 C) 16 D) 17 E) 18

10.

+	K	L	M
K			
L	8		
M			K+L

$L - M = K$

$\Rightarrow \mathbf{L = ?}$

A) 2 B) 4 C) 6 D) 8 E) 10

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11.

+	x	y	z
x	y		
y	z		
z			6

$\Rightarrow \mathbf{y = ?}$

A) 0 B) 1 C) 2 D) 3 E) 4

12.

+	A	B
A	B	
B		C

$A + B + C = 70$

$\Rightarrow \mathbf{B = ?}$

A) 10 B) 15 C) 20 D) 25 E) 30

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	A	C	B	E	C	D	B	E	C	C	C

1.

+	x	y	z
x		41	60
y			
z		67	

$\Rightarrow$ **z − (x + y) = ?**

A) 0 B) 1 C) 2 D) 3 E) 4

2.

+	a	b	c
a		26	
b			
c			b

a + b + c = 32

$\Rightarrow$ **a = ?**

A) 6 B) 10 C) 12 D) 14 E) 16

3.

+	K	L	M
K			a+c
L	b+c		
M		a+b	

$\Rightarrow$ **K + L + M = ?**

A) $\frac{a+b+c}{2}$ B) $\frac{a+b+c}{2}$ C) 2a + 2b + 2c D) 2a + 2b - 2c E) a + b + c

4.

+	N	P	S
N		2·S+8	
P			N+10
S	3·P+2		

$\Rightarrow$ **P = ?**

A) 18 B) 24 C) 30 D) 36 E) 44

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5.

+	5	7	10
7			y
10	z		
5		x	

$\Rightarrow \sqrt{y+z-x} = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) $5\sqrt{5}$ E) 5

6.

+	a	b	c
a	v		
b		t	
c			s

a + b + c = 42

$\Rightarrow$ **s + t + v = ?**

A) 21 B) 42 C) 63 D) 84 E) 105

7.

+	x	y	z
x		a/2	
y			c/2
z	b/2		

$a + b + c = 64$

$\Rightarrow$ **$x + y + z = ?$**

A) 32 B) $\frac{64}{3}$ C) 16 D) 12 E) 8

8.

+	a	b	c
a			
b	x/6		y/2
c	z/3		

$a + b + c = 6$

$\Rightarrow$ **$x + 3 \cdot y + 2 \cdot z = ?$**

A) 36 B) 43 C) 72 D) 84 E) 96

9.

+	a	b	c
a		9	
b			12
c	11		

$a + b + c = x$

$\Rightarrow$ **$\sqrt{x - 12} = ?$**

A) 0 B) 1 C) 2 D) 3 E) 4

10.

+	K	L	M
K	10		
L		8·K	
M			6·K

$\Rightarrow$ **$L + M = ?$**

A) 15 B) 20 C) 25 D) 30 E) 35

11.

+	x	y	z
x	y–z		
y		x+z	
z			y–x

$\Rightarrow$ **$y = ?$**

A) 8 B) 5 C) 4 D) 2 E) 0

12.

+	21	14	5
A			C
B	C		

$A + B = 6$

$\Rightarrow$ **$C = ?$**

A) 4 B) 6 C) 8 D) 12 E) 16

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	D	E	B	B	D	C	C	C	E	E	E

1.

+	x	y	z
x		3x	
y			
z	2y		k

$\Rightarrow$ **k = ?**

A) y B) 2·y C) 3·y D) 4·y E) 5·y

2.

+	a	b	c
a		c	
b			a+4
c	7·b		

$\Rightarrow$ **a + b + c = ?**

A) 13 B) 14 C) 15 D) 16 E) 17

3.

+	K	L	M
K			12b
L	8a		
M		4c	

$K + L + M = 20$
$a, b, c \in Z^+$
$a \neq b \neq c \neq 0$
$\Rightarrow$ **max(c) = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

4.

+	a	b	c
a			b
b	2c		
c		3a	

$a + b + c = k$

$\Rightarrow$ **$(2)^k$ = ?**

A) 0 B) 1 C) 9 D) 27 E) 81

5.

+	x	y	z
x	6		
y		**K**	11x
z	8x		**L**

$\Rightarrow \dfrac{L}{K} = ?$

A) $\frac{1}{4}$ B) $\frac{3}{4}$ C) $\frac{5}{4}$ D) $\frac{7}{4}$ E) $\frac{9}{4}$

6.

+	a	b	c
a		2·c	
b			a+8
c	b		

$\Rightarrow$ **c = ?**

A) 16 B) 8 C) 6 D) 4 E) 2

7.

+	a	b	c
a	b^2		10
b			
c			b

$\Rightarrow$ **b + c = ?**

A) 6 B) 8 C) 10 D) 12 E) 14

8.

+	a	b	c
a		3·c	
b			2·a+1
c	b+4		

$\Rightarrow$ **a·c = ?**

A) 48 B) 54 C) 63 D) 84 E) 108

9.

+	K	L	M	N
P	5	8	3	6
R	8	11	6	9

P + R = 7

$\Rightarrow$ **K + L + M + N = ?**

A) 14 B) 15 C) 16 D) 17 E) 18

10.

+	x	y	z
x	K		
y		L	
z			M

$x, y, z \in Z^+$

$\Rightarrow$ **min(K + L+ M) = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

11.

+	x	y	z
x		$2\sqrt{3}$	
y			$3\sqrt{3}$
z	$7\sqrt{3}$		

$\Rightarrow$ **$(x + y + z)^2 = ?$**

A) $6\sqrt{3}$ B) $12\sqrt{3}$ C) $\sqrt{3}$ D) 3 E) 108

12.

+	a^2	b^2	c^2
a^2		$2{\cdot}x^2$	
b^2			$2{\cdot}y^2$
c^2	$4{\cdot}x{\cdot}y$		

$\Rightarrow$ **$a^2 + b^2 + c^2 = ?$**

A) x + y B) $(x + y)^2$ C) $x^2 + y^2$ D) $x^2 - 2xy + y^2$ E) $2x^2 + 2y^2 + 4xy$

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	D	C	B	D	D	A	C	A	B	E	B

1.

+	a	b	c
a			
b			
c	2·b+2	a+2	a

$\Rightarrow$ **a + b + c = ?**

A) 18 B) 20 C) 22 D) 24 E) 26

2.

+	a	b	c
a	b		
b		c	
c			b·c

$\Rightarrow$ **a + c = ?**

A) 3 B) 4 C) 5 D) 6 E) 7

3.

+	a	b	c
a			
b	c + 3	c – 2	

$\Rightarrow$ **b – a = ?**

A) –4 B) –5 C) –6 D) –7 E) –8

4.

+	a	b	c
a	d		
b	c	e	
c		15	d

$\Rightarrow$ **a + b + c + d + e = ?**

A) 48 B) 52 C) 56 D) 60 E) 64

5.

+	a	b	c
a	b		
b	e	d	
c	5		e

$\Rightarrow$ **d + e – a = ?**

A) 10 B) 12 C) 14 D) 17 E) 18

6.

+	a	b	c
a			7
b	a·c	6·a	
c			

$\Rightarrow \dfrac{a+b+c}{2} = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

7.

+	a	b	c
a	b		30
b	63		
c			

$\Rightarrow \dfrac{a+b+c}{c} = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

8.

+	a	b	c
a			$2 \cdot b$
b	$c+8$		
c		$3 \cdot a$	

$\Rightarrow b = ?$

A) 8 B) 12 C) 16 D) 20 E) 24

9.

+	a	b	c
a			36
b	32		28

$\Rightarrow \dfrac{a+\sqrt{c}}{b} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

10.

+	a	b	c
a	$2 \cdot c - 2$		17
b	15		

$\Rightarrow b = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

11.

+	a	b	c
a			
b			c^2
c	b		a

$\Rightarrow b = ?$

A) 2 B) 4 C) 8 D) 12 E) 16

12.

+	△	□	●
△		●+10	
□			$3 \cdot$△
●			

$\Rightarrow$ □ − △ = ?

A) 2 B) 4 C) 5 D) 7 E) 8

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	B	D	B	B	A	C	A	B	D	C

1.

x	4	7	12
A		56	
B	36		

$\Rightarrow$ **A + B = ?**

A) 13 B) 15 C) 17 D) 19 E) 21

2.

x	a	b	c
a		14	
b			
c	56		64

$\Rightarrow$ **b = ?**

A) 1 B) 2 C) 3 D) 7 E) 8

3.

x	x	y	z
x		25	
y			
z	125		

$\Rightarrow \dfrac{z}{y} = ?$

A) $\frac{1}{5}$ B) $\frac{1}{4}$ C) 1 D) 5 E) 6

4.

x	K	L	M
K			81
L	54		
M			9

$\Rightarrow$ **L = ?**

A) 6 B) 5 C) 4 D) 3 E) 2

5.

x	a	b	c
a		c	
b			
c			64

$0 < a < b < c < 10$

$\Rightarrow$ **a + b + c = ?**

A) 10 B) 12 C) 14 D) 16 E) 18

6.

x	x	y	z
x			
y	54		
z		48	

$\Rightarrow$ **x·z = ?**

A) 18 B) 36 C) 48 D) 54 E) 72

7.

x	a	b	c
a		36	
b			28
c	**K**		

$\Rightarrow$ **K = ?**

A) 63 B) 54 C) 45 D) 36 E) 27

8.

x	K	L	M
K			72
L	48		
M		96	

$\Rightarrow$ **K + L = ?**

A) 4 B) 8 C) 12 D) 14 E) 16

9.

x	K	L	M
K		18	
L			42
M	21		

$\Rightarrow \sqrt{K+L+M} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

10.

x	a	b	c	d
a	c			
b				
c			b	
d		112		49

$\Rightarrow$ **a = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

11.

x	$\sqrt{x}$	$\sqrt{y}$	$\sqrt{z}$
$\sqrt{x}$			$\sqrt{12}$
$\sqrt{y}$	$\sqrt{24}$		
$\sqrt{z}$		$\sqrt{18}$	

$\Rightarrow$ **x + y + z = ?**

A) 5 B) 7 C) 9 D) 11 E) 13

12.

x	#	$	€
#	$ – 1		
$		€	
€		8	

$\Rightarrow$ **# = ?**

A) $ – 1 B) $\frac{€}{\$}$ C) $ + 1 D) $ E) € – 6

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	B	D	E	C	E	A	D	D	B	E	A

1.

x	a	b	c
a		72	
b			96
c	48		

$\Rightarrow$ **a + b + c = ?**

A) 6 B) 8 C) 12 D) 20 E) 26

2.

x	K	L	M
K			36
L			
M		28	

$\Rightarrow$ **L + M = ?**

A) 11 B) 13 C) 15 D) 17 E) 19

3.

x	K	L	M
K			27
L			
M		18	

K > L > M

$\Rightarrow$ **K + M = ?**

A) $\frac{L}{2}$ B) L C) $\frac{3}{2}$L D) 2L E) $\frac{5}{2}$L

4.

x	a	b	c
a			150
b	270		
c		180	

$\Rightarrow$ **a + b + c = ?**

A) 13 B) 23 C) 33 D) 43 E) 53

5.

x	a	b	c
a			b^2
b		169	
c			

$a \neq c$

$a, b, c \in Z^+$

$\Rightarrow$ **a – c = ?**

A) 13 B) 68 C) 94 D) 168 E) 185

6.

x	a	b	c
a			252
b	112		
c		144	

$\Rightarrow$ **b = ?**

A) 8 B) 12 C) 14 D) 16 E) 18

7.

x	a	b	c
a		24	30
b			
c		20	

$a \cdot b \cdot c = X$

$\Rightarrow$ **a + b + c = ?**

A) $\frac{x}{2}$ B) $\frac{x}{4}$ C) $\frac{x}{8}$ D) $\frac{x}{12}$ E) $\frac{x}{16}$

8.

x	a	b	c
a	c^2		
b		c	
c		8	

$\Rightarrow$ **a = ?**

A) 32 B) 16 C) 8 D) 4 E) 2

9.

x	a	b	c
a			
b		3c	
c	72		144

$\Rightarrow \frac{a+b}{c} = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

10.

x	a	b	c
a		**K**	
b		25	**M**
c	**L**		9

K + L + M = 47

$\Rightarrow$ **a = ?**

A) 4 B) 3 C) 2 D) 1 E) 0

11.

x	K	L	M
K			
L		P	
M			R

L + M = 11

R − P = 33

$\Rightarrow$ **M − L = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

12.

x	a	b	c
K	6	8	
L	18		
M		28	49

$\Rightarrow$ **L = ?**

A) 1 B) 2 C) 4 D) 6 E) 8

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	A	D	D	D	A	C	D	B	A	C	D

1.

x	a	b
a		54
b		
c	72	

$\Rightarrow$ **b = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

2.

x	a	b	c
a		96	
b			72

a < 16
$\Rightarrow$ **b = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

3.

x	a	b
a		64
b		
c	128	32

$\Rightarrow$ **b = ?**

A) 4 B) 8 C) 12 D) 16 E) 32

4.

x	a	b	c
a		192	128
b			96

$\Rightarrow$ **a = ?**

A) 6 B) 8 C) 12 D) 14 E) 16

5.

x	c	d
a	72	96
b	96	128

$\Rightarrow$ **(a + b) · (c + d) = ?**

A) 386 B) 388 C) 392 D) 394 E) 396

6.

x	a	b	c
a			63
b	91		
c		117	

$\Rightarrow$ **b + c = ?**

A) 20 B) 21 C) 22 D) 23 E) 24

7.

x	a	b	c	d
a			48	32
c		72		96

$\Rightarrow \frac{b}{c} = ?$

A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 4

8.

x	c	d
a	24	128
b	96	
c		
d		

$\Rightarrow a \cdot d = ?$

A) 84 B) 56 C) 108 D) 112 E) 128

9.

x	a	b	c
a		c^2	
b			32
c			256

$\Rightarrow b = ?$

A) 2 B) 16 C) 32 D) 64 E) 128

10.

x	a	b	c
a			b
b			
c		a^2	

$\Rightarrow \frac{a}{c} = ?$

A) a B) c C) b D) 1 E) 4

11.

x	a	b	c
a		a^2	
b	c		
c			

$\Rightarrow \frac{c}{b} = ?$

A) a B) $\frac{1}{a}$ C) $\frac{1}{b}$ D) $\frac{1}{c}$ E) a^2

12.

x	a	b	c
a	c		
b			
c	b		$4 \cdot b$

$\Rightarrow c = ?$

A) 2 B) 4 C) 8 D) 16 E) 32

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	D	A	E	C	C	B	E	A	B	A	D

1.

x	a	b	c
a		c	45
b			
c	9·b		

$\Rightarrow$ **c = ?**

A) 5 B) 15 C) 25 D) 35 E) 45

2.

x	a	b	c
a			b^2
b		3·a	
c		a+b	

$\Rightarrow$ **a = ?**

A) 18 B) 15 C) 12 D) 9 E) 6

3.

x	a	b	c
a			2·d
b	2·d		
c		d	

$\Rightarrow \frac{a}{b} = ?$

A) 1 B) 2 C) 4 D) 8 E) 16

4.

x	a	b	c
a	b		
b	2·c		
c			

2·b = c

$\Rightarrow$ **c = ?**

A) 16 B) 20 C) 24 D) 28 E) 32

5.

x	a	b	c
a			b
b			
c		a^2	

3·a + 2·c = 16

$\Rightarrow$ **b − a = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

6.

x	a	b	c
a	c		
b	3·c		
c			

a + b = 16

$\Rightarrow$ **c + a = ?**

A) 12 B) 16 C) 20 D) 24 E) 28

7.

x	a	b	c
a		180	
b		c	
c			

$b + c = 30$

$\Rightarrow$ **a + b = ?**

A) 40 B) 41 C) 42 D) 43 E) 44

8.

x	a	b	c
a			
b	4·c		
c		a	

$2 \cdot b + c = 12$

$\Rightarrow$ **$c^2 + b$ = ?**

A) 39 B) 42 C) 51 D) 66 E) 84

9.

x	a	b	c
a	c		
b		4·c	
c			

$b + a = c$

$\Rightarrow$ **(b – a) = ?**

A) 1 B) 3 C) 5 D) 7 E) 9

10.

x	a	b	c
a			
b			
c	$\sqrt{b}$		a

$a + b = 68$

$\Rightarrow$ **c + a = ?**

A) 6 B) 12 C) 16 D) 20 E) 24

11.

x	a	b	c
a	c+24	c+10	
b		c	
c			

$a + b = 12$

$\Rightarrow$ **c = ?**

A) 5 B) 7 C) 15 D) 25 E) 49

12.

x	a	b	c
a			
b		2·a	
c			

$2 \cdot b = c$

$a - c = 16$

$\Rightarrow$ **c = ?**

A) 4 B) 8 C) 16 D) 32 E) 64

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	B	E	C	C	B	D	B	A	D	C

1.

+	a	b	c
a		c	
b			a+8

x	a	b	c
a			
b		c	

$\Rightarrow$ **a + c = ?**

A) 20 B) 22 C) 24 D) 26 E) 28

2.

+	a	b	c
a		$\frac{c}{2}$	
b			

x	a	b	c
a	c	2·c	
b			

$\Rightarrow$ **b + c = ?**

A) 36 B) 42 C) 48 D) 54 E) 60

3.

+	a	b	c
a	b		68
b			

x	a	b	c
a			
b		c	

$\Rightarrow$ **a·b = ?**

A) 24 B) 32 C) 36 D) 48 E) 64

4.

+	a	b	c
a			15
b			

x	a	b	c
a		48	
b			72

$\Rightarrow$ **b = ?**

A) 6 B) 8 C) 12 D) 16 E) 18

5.

+	a	b	c
a		18	
b			14

x	a	b	c
a			96
b			

$\Rightarrow$ **b·c =?**

A) 24 B) 32 C) 48 D) 54 E) 64

6.

+	a	b	c
a		10	
b			

x	a	b	c
a			6·b
b			54

$\Rightarrow$ **c – a – b = ?**

A) –3 B) –2 C) –1 D) 0 E) 1

7.

+	a	b	c
a			5
b			

x	a	b	c
a		24	
b			6

$\Rightarrow a + b - c = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

8.

+	a	b	c
a			
b	15		14

x	a	b	c
a			42
b			

$\Rightarrow b = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

9.

+	a	b	c
a		c–8	
b			27

x	a	b	c
a		42	
b			

$\Rightarrow c = ?$

A) 20 B) 21 C) 22 D) 23 E) 24

10.

+	a	b	c
a		c	7·b
b			

x	a	b	c
a		3·c	
b			

$\Rightarrow b = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

11.

+	a	b	c
a		12	
b			

x	a	b	c
a	4·c	2·c	
b		c	

$\Rightarrow c = ?$

A) 4 B) 8 C) 12 D) 16 E) 18

12.

+	a	b	c
a			$\frac{b}{2}$
b			8·a

x	a	b	c
a			2·b
b			

$\Rightarrow c = ?$

A) 6 B) 12 C) 18 D) 24 E) 36

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1	2	3	4	5	6	7	8	9	10	11	12
E	C	B	B	C	C	D	D	B	A	D	B

1.

+	a	b	c
a			2·b–5
b	c+5		
c			

x	a	b
a		
b	32	

$\Rightarrow c = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

2.

+	a	b	c
a			
b		2·a+4	
c	2·b+1		

x	a	b	c
a			
b			
c		54	

$\Rightarrow a + b + c = ?$

A) 19 B) 20 C) 21 D) 22 E) 23

3.

+	a	b
a	b+1	
b		

x	a	b	c
a		28	
b			
c	5·b+1		

$\Rightarrow b - c = ?$

A) –1 B) –2 C) 1 D) 2 E) 4

4.

+	a	b	c
a			2·b+5
b			
c		2·a+2	

x	a	b	c
a			130
b		81	

$\Rightarrow a + b + c = ?$

A) 32 B) 33 C) 34 D) 35 E) 36

5.

+	a	b	c
a	x	10	
b		y	
c			

x	a	b	c
a	x·y		
b			

$\Rightarrow a = ?$

A) 2 B) 4 C) 8 D) 12 E) 16

6.

+	a	b	c
x	5		
y		12	
z		a+7	

x	x	z
y		12
x	16	
z		

$\Rightarrow y = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

7.

+	a·c	b	c
a			
a·b			19
c	14		

x	a	b	c
a		12	7
b			

$\Rightarrow c = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

8.

+	a	b	c
x		2·a	
y			2·c
z	2·b		

x	a	b	c
a		8	
b			24
c	12		

$\Rightarrow x + y + z = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

9.

+	a	b	c
a		b^2	
b			
c			a

x	a	b	c
a		48	
b			
c			

$\Rightarrow a = ?$

A) 10 B) 12 C) 14 D) 16 E) 20

10.

+	a	b	c
a			a·b
b	c·a		
c		c·b	

x	a	b	c
a		24	
b			
c	32	48	

$\Rightarrow a + b + c = ?$

A) 49 B) 50 C) 51 D) 52 E) 53

11.

+	a	b	c
a	K	10	
b		L	4
c	8		M

x	K	L	M
K	$b^2 \cdot x^2$		
L		$c^2 \cdot y^2$	
M			$a^2 \cdot z^2$

$\Rightarrow y = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

12.

+	a	b	c
a			b
b			
c			

x	a	b	c
a			
b		4	a

$\Rightarrow c = ?$

A) $\frac{1}{2}$ B) $\frac{3}{2}$ C) $\frac{4}{3}$ D) $\frac{4}{5}$ E) $\frac{2}{3}$

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	A	B	A	C	E	C	E	B	D	E	E

1.

+	a	b	c
a	b		
b		c	
c			16

$\Rightarrow$ **a + b = ?**

A) 2 B) 4 C) 6 D) 8 E) 12

2.

√+	a	b	c
a		2	
b			5
c	3		

$\Rightarrow$ **a + b + c = ?**

A) 17 B) 18 C) 19 D) 20 E) 21

3.

+	●	■	▲
●		2·▲	
■			
▲	2·■−6		

$\Rightarrow$ **■ − ▲ = ?**

A) 2 B) 4 C) 5 D) 6 E) 8

4.

+	a	b	c
K	8		
L		12	
M			17

x	K	L	M
K		15	
L			45
M	27		

$\Rightarrow$ **a + b + c = ?**

A) 4L B) 3K C) 3K + 4 D) 3M E) 4M − 2

5.

+	a	b	c
a		5·c+1	
b			a+5
c	b+1		

$\Rightarrow$ **a + c = ?**

A) 9 B) 10 C) 20 D) 30 E) 40

6.

x	a	b	c
a		18	
b			
c	24		

+	a	b	c
a			
b			14

$\Rightarrow$ **a = ?**

A) 2 B) 3 C) 4 D) 6 E) 8

7.

x	a	b	c
a		x	
b			$2\cdot c$
c	$3\cdot c$		

$\Rightarrow$ **x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

8.

+	a	b	c
a			b
b	$2\cdot c+1$		
c		$4\cdot a+2$	

$\Rightarrow$ **b – a – c = ?**

A) –1 B) 0 C) 1 D) 2 E) 3

9.

+	a	b	c
a			$2\cdot b+2$
b			
c		$3\cdot a+2$	

x	a	b
a		48
b		

$\Rightarrow$ **a = ?**

A) 4 B) 6 C) 8 D) 12 E) 16

10.

x	a	b	c
a		$\frac{1}{3}$	
b			$\frac{5}{3}$
c			

a + c = 2

$\Rightarrow$ **b = ?**

A) 5 B) 4 C) 3 D) 2 E) 1

11.

+	a	b	c
a		24	$5\cdot a$
b			
c		$3\cdot b$	

$\Rightarrow$ **c – b + a = ?**

A) 18 B) 20 C) 22 D) 24 E) 26

12.

+	a	b	c
a		c^2+1	
b			
c		$2\cdot a+3$	8

$\Rightarrow \dfrac{a+b+c}{3} = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

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1	2	3	4	5	6	7	8	9	10	11	12
C	C	A	A	B	B	E	B	B	E	D	C

1.

+	a	b	c
a		7	
b			9
c	8		

$\Rightarrow a + b + c = ?$

A) 9 B) 10 C) 11 D) 12 E) 13

2.

+	a	b	c
a		12	16
b			14
c			

$\Rightarrow a = ?;\ b = ?;\ c = ?$

A) 6; 5; 9 B) 7; 6; 9 C) 7; 5; 9 D) 6; 6; 9 E) 7; 9; 5

3.

+	a	b	c	d
a	18	21		
b				16
c	12			
d				

$\Rightarrow \dfrac{a \cdot b}{c \cdot d} = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

4.

+	a	b	c
a	4		
b	e	14	3·f
c	d		10

$\Rightarrow \dfrac{e + f + d}{5} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

5.

+	3	4	5	6
3	2·a–2			
4	3·b–2			
5			2·d+8	
6				5·c–3

$\Rightarrow a + b + c + d = ?$

A) 9 B) 10 C) 11 D) 12 E) 13

6.

x	a	b	c
a		36	
b			108
c			81

$\Rightarrow a^3 = ?$

A) 8 B) 21 C) 27 D) 64 E) 81

7.

x	a	b	c
a	e	15	21
b		d	35
c			f

$\Rightarrow$ **f – (e + d) = ?**

A) 12 B) 13 C) 14 D) 15 E) 16

8.

x	a	b	c	d
a	16			24
b	x		21	z
c	y			18

$\Rightarrow$ **z – (x + y) = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

9.

x	a	2	4	b
a	5·c+4			
2				
4			5·c+1	
b				8·d–4

$\Rightarrow$ **a = ?; b = ?**

A) 7; 7 B) 7; 6 C) 6; 7 D) 6; 6 E) 8; 7

10.

x	2	3	4	5	d
2					2·b+2
3	b				
4				2·c+2	
5					
d			3·a+4	e^2–1	

$\Rightarrow$ **a + b + c + d + e = ?**

A) 5e B) 4a C) e^2 – 1 D) 4c E) 5d

11.

x	a	b	c
a			108
b	24		
c			

c + b = 22

$\Rightarrow$ **a = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

12.

x	a	b	c
K	18		
L		40	
M		8	

a + b + c = 12

$\Rightarrow$ **a·(K + 1) + c·(L+ 1) + b·(M +1) = ?**

A) 72 B) 74 C) 76 D) 78 E) 80

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	B	C	C	C	D	B	B	D	B	D

1.

x	a	b
a		y
b		
c	x	

+	a	b	c
a	c+2		
b		2·a+2	11

$\Rightarrow$ **x + y = ?**

A) 40 B) 41 C) 42 D) 43 E) 44

2.

+	a	b	c
a		e	
b			f
c	k		

x	2	4	d
2		d+2	a+c
4		b+c	
d	a+b		

$\Rightarrow \dfrac{\mathbf{e+f+k}}{\mathbf{2}} = ?$

A) 16 B) 18 C) 20 E) 22 E) 24

3.

x	a	b
a	c	
b		d

+	d	c
d	12·b	
c		10·a

$\Rightarrow$ **(d + c) – (a·b) = ?**

A) 29 B) 30 C) 31 D) 32 E) 33

4.

+	a	b	c
a	$a^2–3$		
b		a^2+1	
c			a^2+5

x	a	b	c
a	d		
b		e	
c			f

$\Rightarrow$ **d + e + f = ?**

A) 80 B) 81 C) 82 D) 83 E) 84

5.

+	a	b	c
a		20	
b			16
c	10		

x	d	e	f
d	b+3		c+5
e	24		
f			

$\Rightarrow \dfrac{\mathbf{(a+b+c)}}{\mathbf{(d+e+f)}} = ?$

A) $\frac{20}{17}$ B) $\frac{21}{16}$ C) $\frac{22}{17}$ D) $\frac{23}{12}$ E) $\frac{23}{13}$

6.

+	4	b	c
4	b+2		
b		4c	
c			3d

x	a	d	f
a	e		
d		a	
f			e^2

$\Rightarrow$ **2(a + d + f) = ?**

A) 42 B) 44 C) 46 D) 48 E) 50

7.

+	a	b	c
a			2·b
b	c+4		

x	a	b
a		48
b		

$\Rightarrow a + b + c = ?$

A) 20 B) 22 C) 24 D) 26 E) 28

8.

+	a	b	c
a			20
b	12		
c			

x	a	b
b		
c		48

$\Rightarrow c + b = ?$

A) 12 B) 14 C) 16 D) 18 E) 20

9.

+	a	b	c
a			b–2
b	2c+1		
c			

x	a	b	c
a	c–2		
b			

$\Rightarrow a = ?$

A) 4 B) 3 C) 1 D) –1 E) –3

10.

+	a	b	c
4	b		b–2
b			
c		2a+2	

x	a	b	c
a		32	
b			

$\Rightarrow a + b + c = ?$

A) 18 B) 17 C) 16 D) 15 E) 14

11.

+	a	b	c
a			3b
b			
c			

$\Rightarrow \dfrac{a + c}{b} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

12.

+	a	b	c
a			
b			4a
c	2b		

x	a	b
a		
b	15	

$\Rightarrow b - (c - a) = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	C	D	D	B	C	E	C	E	B	B

1.

✪	7	9	10
5	17		**A**
6		21	
8		**B**	

⇒ **A + B = ?**

A) 40 B) 41 C) 42 D) 43 E) 45

2.

☆	11	12	13
8	38		
9		**A**	44
10		44	

⇒ **A = ?**

A) 40 B) 41 C) 42 D) 43 E) 44

3.

★	36	85	76
34	16		**A**
45	**C**	22	
79		**B**	29

⇒ **A + C – B = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

4.

✻	5	6	7
3	14		**A**
4		22	
5	**B**		32

⇒ **A + B = ?**

A) 45 B) 46 C) 47 D) 48 E) 49

5.

✲	5	7	9
4	2	**A**	
6		6	
8		**B**	9

⇒ **A + B = ?**

A) 21 B) 22 C) 23 D) 24 E) 25

6.

✳	5	6	7
10	20		**B**
12	**A**	24	
14			28

⇒ **A + B = ?**

A) 43 B) 44 C) 45 D) 46 E) 47

7.

❤	2	3	4
3		**A**	81
4	**B**	64	
5	25		

$\Rightarrow$ **A + B = ?**

A) 43 B) 44 C) 45 D) 46 E) 47

8.

✶	8	9	10
2	5	–	6
3	–	**A**	–
4	**B**	–	7

$\Rightarrow$ **A + B = ?**

A) 10 B) 11 C) 12 D) 13 E) 14

9.

©	2	3	4
5	11		**B**
6		15	
9	**A**	**C**	21

$\Rightarrow$ **A + B + C = ?**

A) 46 B) 47 C) 48 D) 49 E) 50

10.

☮	3	4	5
6	9		2
8		**A**	4
10	4		**B**

$\Rightarrow \mathbf{\dfrac{B}{A} = ?}$

A) 1 B) 2 C) 3 D) 4 E) 5

11.

✈	5	7	9
2		53	**A**
4	**B**		97
6	61		

$\Rightarrow$ **A – B = ?**

A) 40 B) 41 C) 42 D) 43 E) 44

12.

♉	36	42	48
56	92		**?**
82		124	
35	–		–

A) – B) 102 C) 104 D) 106 E) 108

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	E	B	A	D	A	C	E	B	E	C

1.

✿	56	73	94
28	1	0	3
36	**A**	**B**	**C**
47	0	–	2

⇒ **A + B + C = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

2.

✻	21	42	54
3	15		**A**
4		34	
7	7	**B**	40

⇒ **A – B = ?**

A) 20 B) 21 C) 22 D) 23 E) 24

3.

✻	7	8	9
3	3	**B**	9
5		4	
6	**A**		9

⇒ **B + A = ?**

A) 9 B) 10 C) 11 D) 12 E) 13

4.

⁝	16	18	20
3	24		**A**
4		36	
5	**B**		50

⇒ **B – A = ?**

A) 6 B) 7 C) 8 D) 9 E) 10

5.

❤	2	4	6
3	10		**A**
5		18	
7	**B**		26

⇒ **A – B = ?**

A) 0 B) 1 C) 2 D) 3 E) 4

6.

●	16	24	32
46	31		**A**
52		38	
64		**B**	48

⇒ **B – A = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

7.

○	2	3	4
2		**A**	
3			81
4	**B**	64	

$\Rightarrow \frac{B}{A} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.

■	42	54	66
24	16		**A**
36		38	
48			68

$\Rightarrow A = ?$

A) 44 B) 46 C) 48 D) 50 E) 52

9.

■	2	3	4
8	22		**B**
9		27	
10	**A**		32

$\Rightarrow B - A = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

10.

❑	4	6	8
5	14		**B**
7		**A**	22
9		24	

$\Rightarrow A - B = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

11.

▲	31	39	72
36	4		9
47	6	**A**	2
59		8	**B**

$\Rightarrow A - B = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

12.

	5	6	7
8	39	**A**	
9			32
10		64	**B**

$\Rightarrow B - A = ?$

A) 23 B) 24 C) 25 D) 26 E) 27

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	A	D	E	A	E	B	A	B	C	A	A

1.

	96	54	87
43	**B**		44
31	65		**A**
20		34	

⇒ **A – B = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

2.

	2	4	8
2	2		**A**
4			60
8	–	8	

⇒ **A = ?**

A) 62 B) 63 C) 64 D) 65 E) 66

3.

	12	16	20
2	6		**A**
3		7	
4		**B**	8

⇒ **A – B = ?**

A) 7 B) 8 C) 9 D) 10 E) 11

4.

	5	10	15
20	40		
25		35	
30		**A**	30

⇒ **A = ?**

A) 30 B) 35 C) 40 D) 45 E) 50

5.

	2	4	3
1			28
4	**A**	128	
3	35		**B**

⇒ **A – B = ?**

A) 14 B) 15 C) 16 D) 17 E) 18

6.

	31	52	63
73	20		25
91	68	**A**	
84	**B**	25	

⇒ **A – B = ?**

A) 50 B) 51 C) 52 D) 53 E) 54

7.

	2	8	14
6	18	**A**	
5		45	
7	**B**		105

$\Rightarrow$ **3·B – A = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

8.

	16	24	32
4	4		**A**
6	❖		❖
8	**B**	3	

$\Rightarrow$ **A, B = ?**

A) —, 8 B) 2, — C) —, 2
D) 2, 8 E) 8, 2

9.

	68	46	28
41		6	**A**
12	24	12	
22	**B**		4

$\Rightarrow$ **A + B = ?**

A) 12 B) 14 C) 16 D) 18 E) 20

10.

	8	6	7
5	14		**A**
7		4	
9	**B**		3

$\Rightarrow$ **A + B = ?**

A) 13 B) 14 C) 15 D) 16 E) 17

11.

	91	72	64
62		**A**	8
53	16		
84		20	**B**

$\Rightarrow$ **A + B = ?**

A) 26 B) 28 C) 30 D) 32 E) 34

12.

	18	24	36
12		24	**A**
14	8	**B**	
16	**C**		40

$\Rightarrow \dfrac{A}{B+C} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

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1	2	3	4	5	6	7	8	9	10	11	12
C	A	D	E	E	D	E	E	C	E	B	B

1.

	△	□	⬠
20	–	5	**B**
24	8		–
30		**A**	6

⇒ **A; B = ?**

A) —; 5 B) 2 ; — C) 4 ; 2 D) — ; 4 E) 4 ; —

2.

	○	△	□
2	4		**A**
3	**B**	27	81
4	16	64	256

⇒ **A + B = ?**

A) 20 B) 21 C) 22 D) 23 E) 25

3.

	⇨	△	↻
16	21	**B**	8
20	**C**	12	10
24	29	16	**A**

⇒ **A + 2·B – C = ?**

A) 3 B) 4 C) 5 D) 6 E) 7

4.

	⦸	☾	⊙
8	**B**	3	4
10	20	5	**A**
12	24	**C**	8

⇒ **A + B – C = ?**

A) 14 B) 15 C) 16 D) 17 E) 18

5.

	⊠	✎	☽
18	6	–	9
20	**C**	5	10
22	–	**B**	**A**

⇒ **A; B ; C = ?**

A) 8 ; — ; 11 B) 11 ; — ; 90 C) 11 ; — ; — D) 9 ; — ; 8 E) — ; 11 ; —

6.

	✋	▤	🗑
3	7	6	**C**
4	**B**	13	12
5	23	**A**	21

⇒ **A – B – C = ?**

A) 1 B) 3 C) 4 D) 5 E) 6

7.

	¢	🕒	🖱
12	6	24	**A**
18	9	**B**	81
24	**C**	48	144

⇒ **A + B + C = ?**

A) 80 B) 81 C) 82 D) 83 E) 84

8.

	⊗	⊘	▣
12	6	3	**A**
16	14	15	49
24	**C**	**B**	36

⇒ **A + B + C = ?**

A) 23 B) 24 C) 25 D) 26 E) 27

9.

	◈	▣	◇
38	43	29	**C**
43	**A**	34	57
56	61	**B**	70

⇒ **A – B + C = ?**

A) 53 B) 54 C) 55 D) 56 E) 57

10.

	✱	✳	✦
24	8	**A**	–
40	–	10	**C**
20	**B**	5	4

⇒ **A; B ; C = ?**

A) 6 ; 5 ; 8 B) 5 ; 6 ; 8 C) 6 ; — ; 5

D) 6 ; — ; 8 E) 8 ; 6 ; —

11.

	☑	☒	⊙
4	16	12	8
5	**C**	15	9
6	36	**B**	**A**

⇒ **A + B – C = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

12.

	■	□	⧈
8	12	13	**B**
12	16	**A**	18
15	**C**	20	21

⇒ **A – B + C = ?**

A) 20 B) 21 C) 22 D) 23 E) 24

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	A	B	C	B	E	E	A	D	C	C

1.

	❁	✍	✌
5	12	18	**C**
9	20	**B**	40
17	**A**	54	72

$\Rightarrow$ **A – B + C = ?**

A) 25 B) 26 C) 27 D) 29 E) 30

2.

	24	48	36
✿	10	**A**	16
✻	5	13	**B**
❁	**C**	8	5

$\Rightarrow$ **A + B + C = ?**

A) 31 B) 32 C) 33 D) 34 E) 35

3.

	✆	✇	❒
8	27	19	**C**
9	30	**B**	24
10	**A**	23	27

$\Rightarrow$ **B + C – A = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

4.

	4	6	8
R	20	**A**	72
T	12	32	**B**
M	**C**	72	128

$\Rightarrow$ **A + B + C = ?**

A) 132 B) 134 C) 136 D) 138 E) 140

5.

	✻	➽	✏
8	18	13	**C**
12	26	**B**	2
16	**A**	29	3

$\Rightarrow$ **B + A + C = ?**

A) 54 B) 55 C) 56 D) 57 E) 58

6.

	2	4	6
K	4	32	**A**
N	16	**B**	432
V	**C**	62	214

$\Rightarrow$ **A + B + C = ?**

A) 238 B) 240 C) 242 D) 244 E) 246

7.

	✿	❀	✻
15	6	5	C
28	10	B	6
47	A	28	3

⇒ A – (B ÷ C) = ?

A) 6 B) 7 C) 8 D) 9 E) 10

8.

	81	93	84
✎	81	A	144
✍	B	3	2
➾		27	C

⇒ A + B + C = ?

A) 158 B) 159 C) 160 D) 161 E) 162

9.

	✪	■	●
2	4	16	C
3	9	B	27
4	A	256	64

⇒ (A x C) – B = ?

A) 43 B) 44 C) 45 D) 46 E) 47

10.

	32	43	24
✇	11	A	8
■	7	13	C
○	B	25	20

⇒ A + B + C = ?

A) 47 B) 48 C) 49 D) 50 E) 51

11.

	9	17	28
❤	23	31	A
♠	2	B	21
✪	C	32	43

⇒ A + B + C = ?

A) 72 B) 73 C) 74 D) 75 E) 76

12.

	13	23	34
H	28	A	67
F	B	11	31
G	28	35	C

⇒ A + B + C = ?

A) 121 B) 122 C) 123 D) 124 E) 125

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	E	B	C	C	B	C	E	D	E	D

1.

	▲	▶	▼
46	**A**	15	35
38	24	**B**	36
59	45	32	**C**

⇒ **A + B + C = ?**

A) 96 B) 97 C) 98 D) 99 E) 100

2.

	❏	❆	❁
16	7	37	**C**
25	9	**B**	29
22	**A**	6	8

⇒ **A + B + C = ?**

A) 68 B) 69 C) 70 D) 71 E) 72

3.

	⤺	↺	↻
23	12	**B**	24
46	48	72	**C**
57	**A**	105	140

⇒ **A + B + C = ?**

A) 168 B) 172 C) 176 D) 180 E) 184

4.

	✺	✿	❂
48	23	15	**A**
24	**B**	7	5
72	35	**C**	17

⇒ **A + B + C = ?**

A) 45 B) 44 C) 43 D) 42 E) 41

5.

	✿	©	✇
8	14	12	**C**
10	18	**B**	14
14	**A**	24	22

⇒ **A + B + C = ?**

A) 50 B) 51 C) 52 D) 53 E) 54

6.

	▲	▼	△
4	**A**	25	10
8	49	81	**B**
12	121	**C**	26

⇒ **A + B + C = ?**

A) 191 B) 192 C) 193 D) 195 E) 196

7.

	⊙	○	◉
4	**A**	12	20
6	18	**B**	42
2	6	4	**C**

⇒ **A + B + C = ?**

A) 34 B) 36 C) 38 D) 40 E) 42

8.

	✋	⊘	⊠
34	51	13	**A**
46	63	**B**	69
51	**C**	30	74

⇒ **A + B + C = ?**

A) 140 B) 145 C) 150 D) 155 E) 160

9.

	91	43	62
❁	24	3	**K**
✻	40	**L**	32
❀	**M**	24	24

⇒ **K + L + M = ?**

A) 54 B) 56 C) 58 D) 60 E) 62

10.

	21	13	32
●	**K**	4	11
○	3	**L**	7
❑	5	10	**M**

⇒ **K + L + M = ?**

A) 14 B) 15 C) 16 D) 17 E) 18

11.

	96	84	75
✸	9	**K**	8
✻	**L**	4	2
✿	6	3	**M**

⇒ **K + L + M = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

12.

	12	31	14	23
▲	**K**	28	5	11
■	9	4	**L**	29
●	9	**M**	65	35

⇒ **K + L + M = ?**

A) 92 B) 93 C) 94 D) 95 E) 96

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	C	E	A	C	E	C	C	C	C	D	E

1.

			Sonuç (Result)
12	8	7	13
9	14	5	18
6	17	9	14
14	13	5	?

A) 20 B) 21 C) 22 D) 23 E) 24

2.

			Sonuç (Result)
3	4	11	23
2	7	1	15
6	4	10	34
5	2	5	?

A) 12 B) 13 C) 14 D) 15 E) 16

3.

			Sonuç (Result)
14	8	5	11
9	14	25	20
11	5	7	13
8	2	10	?

A) 15 B) 16 C) 17 D) 18 E) 19

4.

			Sonuç (Result)
3	4	2	3
5	6	5	4
6	6	13	5
20	20	9	?

A) 7 B) 8 C) 9 D) 10 E) 11

5.

	12	24	18	8
	6	5	13	5
	8	9	11	13
Sonuç (Result)	13	19	?	13

A) 20 B) 21 C) 22 D) 23 E) 24

6.

	2	5	6	3
	3	1	2	4
	4	2	1	6
Sonuç (Result)	29	30	?	61

A) 40 B) 41 C) 42 D) 43 E) 44

7.

	4	7	6	5
	6	3	4	4
	5	2	3	9
Sonuç (Result)	19	19	?	23

A) 16 B) 17 C) 18 D) 19 E) 20

8.

	7	12	8	6
	14	5	5	9
	6	16	2	6
Sonuç (Result)	9	11	5	?

A) 7 B) 8 C) 9 D) 10 E) 11

9.

				Sonuç (Result)
6	4	2	8	40
1	5	7	4	33
4	3	6	2	?
1	7	6	5	37

A) 20 B) 22 C) 24 D) 26 E) 28

10.

				Sonuç (Result)
3	4	2	6	56
5	4	7	3	90
3	2	5	1	30
6	4	7	2	?

A) 82 B) 84 C) 86 D) 88 E) 90

11.

				Sonuç (Result)
15	3	24	6	20
8	2	21	3	28
14	7	28	4	?
32	4	42	6	56

A) 12 B) 14 C) 16 D) 18 E) 20

12.

	4	8	5	7
	3	4	6	8
	5	1	2	1
	12	16	20	14
Sonuç (Result)	48	16	?	42

A) 30 B) 40 C) 50 D) 60 E) 70

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	D	B	A	B	B	D	A	C	E	B	B

1.

			Sonuç (Result)
6	4	9	20
5	7	8	21
1	6	5	13
4	3	7	?
9	2	6	18

A) 11 B) 12 C) 13 D) 14 E) 15

2.

				Sonuç (Result)
2	1	3	4	24
4	5	6	2	240
7	1	2	3	42
4	6	3	2	?

A) 136 B) 144 C) 152 D) 160 E) 168

3.

	8	7	8	10
	12	9	6	7
	9	3	3	15
	6	5	2	4
Sonuç (Result)	42	48	42	?

A) 8 B) 9 C) 10 D) 11 E) 12

4.

				Sonuç (Result)
1	7	4	3	30
6	2	8	2	?
1	5	4	3	26
9	2	1	4	32

A) 36 B) 34 C) 32 D) 30 E) 28

5.

				Sonuç (Result)
4	5	3	8	4
6	4	2	1	11
5	9	6	3	17
7	5	4	7	?

A) 8 B) 9 C) 10 D) 11 E) 12

6.

	4	8	14	4
	6	6	6	8
	8	10	2	7
	2	12	2	9
Sonuç (Result)	10	?	12	14

A) 10 B) 12 C) 14 D) 16 E) 18

7.

	8	6	5	4
	6	9	4	7
	2	3	1	4
	3	4	2	1
Sonuç (Result)	42	42	18	?

A) 22 B) 24 C) 20 D) 28 E) 30

8.

				Sonuç (Result)
8	6	9	5	36
9	2	5	3	28
1	7	6	2	17
4	7	8	10	?

A) 29 B) 30 C) 31 D) 32 E) 33

9.

				Sonuç (Result)
2	4	1	2	36
1	7	1	4	31
2	6	1	4	40
3	6	2	1	?

A) 56 B) 57 C) 58 D) 59 E) 60

10.

			Sonuç (Result)
8	10	6	12
12	6	8	13
7	4	5	8
5	16	3	?

A) 10 B) 11 C) 12 D) 13 E) 14

11.

				Sonuç (Result)
17	16	3	9	21
32	15	14	16	17
18	12	2	8	20
21	11	8	2	?

A) 20 B) 21 C) 22 D) 23 E) 24

12.

	87	21	26	11
	26	86	31	34
	32	38	16	28
	25	17	42	25
Sonuç (Result)	35	36	25	?

A) 22 B) 23 C) 24 D) 25 E) 26

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	B	C	A	B	E	B	E	B	C	C	E

1.

3	7	2	1
8	6	4	?
9	7	6	3
5	6	3	0

A) 5 B) 6 C) 7 D) 8 E) 9

2.

2	1	6	8
9	1	8	2
7	3	5	5
3	1	5	?

A) 4 B) 5 C) 6 D) 7 E) 8

3.

4	9	5	5
4	7	6	2
1	6	3	1
6	3	0	?

A) 0 B) 1 C) 2 D) 3 E) 4

4.

9	5	7	2
7	8	5	9
1	1	1	1
6	3	2	?

A) 1 B) 2 C) 3 D) 4 E) 5

5.

6	5	4	8
9	7	5	2
6	8	3	6
2	9	8	?

A) 4 B) 5 C) 6 D) 7 E) 8

6.

8	4	2	4
9	21	7	3
8	16	4	2
5	2	10	?

A) 20 B) 21 C) 22 D) 23 E) 25

7.

8	5	9	12
9	11	4	?
7	5	6	8
12	11	9	10

A) 0 B) 1 C) 2 D) 3 E) 4

8.

2	8	5	10
3	12	9	18
4	16	13	26
5	20	17	?

A) 34 B) 35 C) 36 D) 37 E) 38

9.

8	27	9	32
5	12	4	20
6	9	3	24
7	6	**A**	**B**

⇒ **A; B = ?; ?**

A) 2; 27 B) 3; 27 C) 3; 28 D) 2; 28 E) 3; 30

10.

9	7	6	4
5	3	2	6
45	21	**A**	24
14	10	8	**B**

⇒ **A; B = ?; ?**

A) 10; 12 B) 10; 14 C) 12; 10 D) 12; 14 E) 14; 10

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11.

5	1	2	5
6	2	1	6
7	3	4	3
8	5	1	?

A) 1 B) 2 C) 3 D) 4 E) 5

12.

8	5	7	?
9	2	3	7
5	3	6	0
7	2	4	8

A) 6 B) 7 C) 8 D) 9 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	B	A	A	A	E	C	A	D	C	B	A

1.

27	16	14	13
32	8	5	25
19	21	12	18
16	15	19	?

A) 20 B) 21 C) 22 D) 23 E) 24

2.

4	2	3	3
5	5	6	4
7	8	10	5
1	2	1	?

A) 1 B) 2 C) 3 D) 4 E) 5

3.

10	10	20	20
7	5	6	9
4	8	2	7
6	9	5	?

A) 10 B) 11 C) 12 D) 13 E) 14

4.

6	21	23	?
1	2	16	8
3	12	1	4
2	7	6	10

A) 21 B) 22 C) 23 D) 24 E) 25

5.

4	3	5	7
6	4	13	?
6	4	13	11
9	1	5	4

A) 11 B) 12 C) 13 D) 14 E) 15

6.

32	62	18	21
27	46	18	42
18	33	11	71
47	27	24	?

A) 31 B) 32 C) 33 D) 34 E) 35

7.

4	2	6	4
2	2	1	6
3	3	8	1
3	2	3	?

A) 2 B) 3 C) 4 D) 5 E) 6

8.

8	7	14	4
12	5	15	4
6	14	4	21
4	12	16	?

A) 1 B) 2 C) 3 D) 4 E) 5

9.

8	4	14	7
10	2	20	4
7	3	21	?
18	3	24	4

A) 5 B) 6 C) 7 D) 8 E) 9

10.

13	6	6	12
5	4	?	11
10	7	7	15
8	3	8	8

A) 6 B) 7 C) 8 D) 9 E) 10

11.

18	3	9	15
16	8	6	15
30	9	15	27
38	?	8	25

A) 3 B) 4 C) 5 D) 6 E) 7

12.

12	1	4	4
14	1	9	6
18	3	2	4
16	2	5	?

A) 6 B) 7 C) 8 D) 9 E) 10

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	A	B	A	E	E	C	E	D	B	A

Aşağıdaki şekillerdeki karelere 1'den 9'a kadar rakamlar yazılacaktır. Karelerdeki köşegenlerin sağında verilen sayılar o karenin sağındaki sayıların toplamını, solunda verilen sayılar ise o karenin altındaki sayıların toplamını verir. Her bir toplamı oluşturan rakamlar birbirinden farklı olmalıdır.
Testi yukarıda verilen bilgilere göre cevaplayınız.

The numbers 1 to 9 are going to be placed inside the squares of the following questions. The numbers written to the right side of the diagonals of the squares shows the sum of the numbers to the right of that square, and the numbers written to the left side of the diagonals of the squares shows the sum of the numbers below that square. The numbers used in making the indicated each sum should be different.
Answer the test according to the information given above.

1.

■	11	11
10	X	
12		5

⇒ X = ?

A) 1 B) 2 C) 3 D) 4 E) 5

2.

■	4	13
7		6
10	X	

⇒ X = ?

A) 2 B) 3 C) 4 D) 5 E) 6

3.

■	15	9
17	X	
7		1

⇒ X = ?

A) 5 B) 6 C) 7 D) 8 E) 9

4.

■	14	13
10	6	
X		

⇒ X = ?

A) 13 B) 14 C) 15 D) 16 E) 17

5.

■	15	15	15
15		4	
19		X	9
11	7		

⇒ X = ?

A) 5 B) 6 C) 7 D) 8 E) 9

6.

	8	21	16
8			3
17	X	9	
20			7

$\Rightarrow X = ?$

A) 1 B) 2 C) 4 D) 5 E) 6

7.

	y	12	16
x			4
13		2	
16	0	9	

$\Rightarrow y - x = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

8.

	17	6	14
10		0	
14			x
13	9	1	

$\Rightarrow x = ?$

A) 2 B) 4 C) 5 D) 7 E) 8

9.

	12	14	x
13	5		
13		1	
19	3		9

$\Rightarrow x = ?$

A) 15 B) 16 C) 17 D) 18 E) 19

10.

	15	15	12
24		x	
9			1
9	5	0	

$\Rightarrow x = ?$

A) 4 B) 6 C) 7 D) 8 E) 9

11.

	x^2	10	
x^2		4	2
12		0	
y^2			9

$\Rightarrow x + y = ?$

A) 7 B) 8 C) 10 D) 12 E) 14

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11
D	B	E	E	D	B	B	D	E	E	A

Şekilde verilen 3 x 3 kareye 1'den 9'a kadar sayılar birer kez kullanılarak yerleştirildiğinde her satırın ve sütunun toplamları eşittir.

When the numbers from 1 to 9 are placed into the square with 3 x 3 in the figure given by using each number only once, sum of every line and column is equal.

		K
	X	L
		M

1. K + L + M = ?

A) 13 B) 14 C) 15 D) 16 E) 17

2. X = ?

A) 1 B) 3 C) 4 D) 5 E) 7

3 ve 4. soruları aşağıda verilen tabloya göre cevaplayınız.

Answer the questions 3 and 4 according to the table given below.

Şekilde verilen 5 x 5 kareye 1'den 25'e kadar sayılar birer kez kullanılarak yerleştirildiğinde her satırın ve sütunun toplamları eşittir.

When the numbers form 1 to 25 are placed into the square with 5 x 5 in the figure given by using each number once, sum of every line and column is equal.

				L
				16
		x		22
				3
				K

3. x = ?

A) 13 B) 14 C) 15 D) 17 E) 19

4. K + L = ?

A) 15 B) 17 C) 19 D) 21 E) 24

5 ve 6. soruları aşağıda verilen şekle göre çözünüz.

Answer the questions 5 and 6 according to the following figure.

Y		
	X	
		Z

Yukarıdaki tabloda boş kutulara 10, 11, 12, 13, 14, ... 17, 18 sayıları yazılacaktır. Bu sayılar kutulara yazılırken satır, sütun ve köşegen toplamlarının eşit olması koşuluna uyulmalıdır.

Numbers of 10, 11, 12, 13, 14, ... 17, 18 will be written in the empty boxes of the table above. When the numbers are written; the row, column and diagonal sums will equal.

5. X = ?

A) 13 B) 14 C) 15 D) 16 E) 17

6. Y + Z = ?

A) 25 B) 28 C) 30 D) 31 E) 34

7 ve 8. soruları aşağıda verilen tabloya göre cevaplayınız.

Answer the questions 7 and 8 according to the table given below.

Şekilde verilen 7 x 7 kareye 1'den 49'a kadar sayılar birer kez kullanılarak yerleştirildiğinde her satırın ve sütunun toplamları eşittir.

When the numbers from 1 to 49 are placed into the square with 7 x 7 in the figure given by using each number once, sum of every line and column is equal.

			8			
			K			
			L			
			x			
			M			
			34			
			N			

7. x = ?

A) 24 B) 25 C) 26 D) 27 E) 28

8. K + L + M + N =?

A) 108 B) 115 C) 121 D) 129 E) 133

9.

11		
		8

Yukarıdaki tabloda boş kutulara 6, 7, 9, 10, 12, 13 ve 14 sayıları yazılacaktır. Bu sayılar kutulara yazılırken satır, sütun ve köşegen toplamlarının eşit olması koşuluna uyulmalıdır.

Numbers of 6, 7, 9, 10, 12, 13 and 14 will be written in the empty boxes of the table above. When the numbers are written; the row, column and diagonal sums will equal.

Buna göre her satırdaki sayıların toplamı kaçtır?

Accordingly, what is the sum of numbers on each row?

A) 27 B) 28 C) 29 D) 30 E) 31

10.

	x	

Yukarıdaki tabloda boş kutulara 14, 9, 16, 13, 17, 15, 11, 10, 12 sayıları yazılacaktır. Bu sayılar kutulara yazılırken satır, sütun ve köşegen toplamlarının eşit olması koşuluna uyulmalıdır.

Numbers of 14, 9, 16, 13, 17, 15, 11, 10, 12 will be written in the empty boxes of the table above. When the numbers are written; the row, column and diagonal sums will equal.

Buna göre x kaçtır?

Accordingly, what is the value of x?

A) 13 B) 14 C) 15 D) 16 E) 17

11. ve 12. soruları aşağıda verilen şekle göre cevaplayınız.

Answer the questions 11 and 12 according to the figure given below.

	2	x	
		y	
	4	z	
5	6		12

Yukarıdaki verilen tabloya 1 den 16 ya kadar sayılar boş kutucuklara aşağıda verilen kurallara göre yerleştiriliyor. / The empty boxes are filled with numbers from 1 to 16. Number of 1 to 16 are used in the table above with these rules;

– Her kutucukta ayrı bir sayı kullanılacaktır.

Different numbers will be used in each boxes.

– Her satırdaki sayıların toplamı eşit olacaktır.

The sum of rows will be equal.

– Kutucuklardaki sayılar soldan sağa doğru artacaktır.

The numbers in boxes will increase from left to right.

11. **Her satırın toplamı kaçtır?**

What is the sum of each row?

A) 30 B) 31 C) 32 D) 33 E) 34

12. **x + y + z = ?**

A) 36 B) 37 C) 38 D) 39 E) 40

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	D	A	E	B	B	B	A	D	A	E	B

1, 2 ve 3. sorulardaki tablolarda, 1, 2, 3, 4 ve 5 sayıları her satırda ve sütunda birer kez olacak şekilde yerleştirilecektir.

1, 2 and 3 questions in the tables, the numbers 1, 2, 3, 4 and 5 are placed in each lines and columns for each one time.

1.

2				
		x		
	2			
			2	
				2

$\Rightarrow$ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

2.

		1		
2		x		3
		5		

$\Rightarrow$ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

3.

	2			4
		5	1	3
			5	
	3			
				x

$\Rightarrow$ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

4, 5 ve 6. sorulardaki tablolarda, A, B, C, D ve E sayıları her satırda ve sütunda birer kez olacak şekilde yerleştirilecektir.

4, 5 and 6 questions in the tables, the numbers A, B, C, D and E are placed in each lines and columns for each one time.

4.

A		D	B	
C			D	B
B		C		
	x		E	
	D		C	A

$\Rightarrow$ **x = ?**

A) A B) B C) C D) D E) E

5.

A		B		C
	B			A
D		x	E	
	C			D
C			B	

$\Rightarrow$ **x = ?**

A) A B) B C) C D) D E) E

6.

	E			D
D		C		E
	A		C	
x		E		
		B		

$\Rightarrow$ **x = ?**

A) A B) B C) C D) D E) E

7, 8, 9, 10 ve 11. sorulardaki tablolarda, 1, 2, 3, 4, 5 ve 6 sayıları her satırda ve sütunda birer kez olacak şekilde yerleştirilecektir.

7, 8, 9, 10 and 11 questions in the tables, the numbers 1, 2, 3, 4, 5 and 6 are placed in each lines and columns for each one time.

7.

					1
	3		6		**z**
		1			2
			5		6
5		**x**	2	4	
4					**y**

$\Rightarrow$ **x·y·z = ?**

A) 16 B) 27 C) 60 D) 64 E) 120

8.

1		2		3	
	3	**x**	5		1
4		3		6	
5		6		1	
	6		1		3
3		1		5	

$\Rightarrow$ **x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

9.

4		1			2
		4			1
2	1				
	5	**x**	1		
					6
1				2	3

$\Rightarrow$ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

10.

		3	6	1	
6					4
	2		4	**x**	6
		6			
4				3	
	6		5	4	

$\Rightarrow$ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

11.

5	6		2	3	**y**
	1		3		5
1		3		5	
	3		**x**		**z**
3		5	6		2
	5		1	2	3

$\Rightarrow$ **x + y + z = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11
B	D	A	B	C	B	E	C	B	E	C

1.

x	a	b	c
a	8·b		
b		10·c	
c		20	

⇒ a · b = ?

A) 20 B) 25 C) 30 D) 35 E) 40

2.

x	a	b	c
a			10
b	20		
c			

+	a	b	c
a		9	
b			
c	7		

⇒ a + b + c = ?

A) 10 B) 11 C) 12 D) 13 E) 14

3.

+	a	b	c
a	c+7		
b			15–a

x	a	b	c
a			
b	35		

⇒ a + c = ?

A) 8 B) 7 C) 6 D) 5 E) 4

4.

x	a	b	c
a	b		
b		c	
c		64	

⇒ a + b + c = ?

A) 20 B) 22 C) 24 D) 26 E) 28

5.

x	a	b	c
a		12	
b			28
c			

+	a	b	c
a			
b			
c	10		

⇒ b + c = ?

A) 10 B) 11 C) 12 D) 13 E) 14

6.

x	a	b	c
a		30	
b			42

+	a	b	c
a			
b			13

⇒ a + b = ?

A) 10 B) 11 C) 12 D) 13 E) 14

7.

x	a	b	c
a	b		
b		c–9	
c			

+	a	b	c
a		4a	
b			
c			

$\Rightarrow c = ?$

A) 60 B) 70 C) 80 D) 90 E) 100

8.

x	a	b	c
a			96
b			120
c			

+	a	b	c
a			
b	18		
c			

$\Rightarrow c = ?$

A) 10 B) 12 C) 14 D) 16 E) 18

9.

x	❀	❂	❤
❀	❂		
❂		❤	
❤			2▲

$\Rightarrow$ ❂ = ?·▲

A) $\frac{1}{32}$ B) $\frac{1}{16}$ C) $\frac{1}{8}$ D) $\frac{1}{4}$ E) $\frac{1}{2}$

10.

+	a	b	c
a			b+10
b	18		

x	a	b	c
a		3·b·c	
b		3·a	

$\Rightarrow b = ?$

A) 1 B) 2 C) 5 D) 6 E) 9

11.

+	a	b	c
a			16
b			
c			

x	a	b	c
a		20	
b			
c		60	

$\Rightarrow c = ?$

A) 12 B) 10 C) 6 D) 5 E) 4

12.

+	a	b	c
a		3c+1	
b			2a+1

x	a	b	c
a			12
b			

$\Rightarrow b = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	B	A	B	B	B	D	B	A	D	A	B

1.

❏	4	6	13
5		2	
8			3
9	4	**?**	

A) 2 B) 3 C) 4 D) 5 E) 6

2.

	❏	▲	❍
12	**a**		144
4	16	**b**	
1		3	**c**

⇒ **a + b + c = ?**

A) 48 B) 60 C) 61 D) 72 E) 80

3.

+	a	b	c
a		c+4	3b+4
b			2a–1
c			

⇒ **b + 2·c = ?**

A) 32 B) 33 C) 34 D) 35 E) 36

4.

❏	131	169	184
21	**c**	✪	–
43	✪		
68	–	**b**	**a**

⇒ **a, b, c = ?**

A) ✪ , — , ✪ B) ✪ , ✪ , ✪ C) ✪ , —, —
D) —, —, ✪ E) —, —, —

5.

+	a	b	c
a			43
b	56		
c		35	

⇒ **a + b + c = ?**

A) 61 B) 63 C) 65 D) 67 E) 69

6.

			Sonuç (Result)
1	6	9	13
0	8	1	**?**
1	2	1	11
0	0	4	2

A) 11 B) 9 C) 7 D) 5 E) 3

7.

	6	4	7	0	3
	2	1	9	9	3
	7	6	3	8	2
	5	4	3	0	1
Sonuç (Result)	7	6	**?**	8	2

A) 0 B) 1 C) 2 D) 3 E) 4

8.

●	614	281	1703
314			19
204	**?**		
100		12	

A) 17 B) 19 C) 21 D) 23 E) 25

9.

x	a	b	c
a	b	c	
b		2·c	
c			

$\Rightarrow$ **c = ?**

A) 1 B) 2 C) 4 D) 8 E) 16

10.

6	1	1	3	11
2	4	10	1	17
0	0	3	7	10
2	1	4	9	16
8	7	6	3	**?**

A) 12 B) 24 C) 48 D) 96 E) 192

11.

●	4	3	6
24	18		
36		**?**	18
42		42	

A) 18 B) 27 C) 36 D) 52 E) 63

12.

x	K	L	M
K	16		
L		a/b	
M	b		a

$\Rightarrow \sqrt{M} = ?$

A) $4L^2$ B) 2L C) L D) L/2 E) 3L/2

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	D	A	D	B	D	A	D	B	C	B

1.

+	a	b	c
a			b^2
b		c	a
c			

$\Rightarrow a = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

2.

x	a	b	c
a			
b		c	
c		a/3	a

$\Rightarrow a + c = ?$

A) 9 B) 12 C) 30 D) 84 E) 90

3.

+	a	b	c
a	b+4	$\sqrt{c}$	
b		a+1	
c			

$\Rightarrow c - b - a = ?$

A) 16 B) 17 C) 18 D) 19 E) 20

4.

+	a	b	c
a			b/2
b			
c			

x	a	b	c
a	2·b		b
b			
c			b/2

$\Rightarrow a - c = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

5.

+	a	b	c
a	b^4		
b			

x	a	b	c
a	2·c	c/2	
b			

$\Rightarrow a + c = ?$

A) 36 B) 38 C) 40 D) 42 E) 44

6.

64	9	32	6
12	43	61	2
8	52	14	40
1	13	19	21
64	**x**	14	**y**

$\Rightarrow \sqrt{x + y} = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

7.

❏	4	7	8
6	26		**K**
3		29	
2	**L**		34

⇒ **K + L = ?**

A) 56 B) 58 C) 60 D) 62 E) 64

8.

6	12	7	5
20	8	8	6
24	19	14	8
2	1	1	**?**

A) 1 B) 2 C) 3 D) 4 E) 5

9.

4	6	8	7
8	4	8	4
2	3	4	3
4	2	**?**	7

A) 4 B) 5 C) 6 D) 7 E) 8

10.

9			
12	6		
	9		
	12	**x**	**y**
			z

⇒ **x + y + z = ?**

A) 9 B) 10 C) 11 D) 12 E) 13

11.

❏	12	52	16
62		113	
108			130
41	**?**		74

A) 33 B) 34 C) 35 D) 36 E) 37

12.

●	11	4	17
8		24	
3	30		**?**
5		15	

A) 45 B) 46 C) 47 D) 48 E) 49

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	E	E	A	C	E	C	C	A	A	B	D

1.

x	a	b	c
a	c^4	c^2	
b	$6 \cdot c$		
c			

$\Rightarrow \dfrac{a+c}{b} = ?$

A) 42 B) 43 C) 44 D) 45 E) 47

2.

+	a	b	c
a			
b			
c	15	16	

x	a	b	c
a			50
b			
c		60	

$\Rightarrow c = ?$

A) 6 B) 8 C) 10 D) 11 E) 14

3.

+	a	b	c
a			b–3
b			a+9

x	a	b	c
a			18
b			36

$\Rightarrow c = ?$

A) 24 B) 18 C) 12 D) 8 E) 3

4.

+	a	b
z	8	7
y	11	10

x	a	b
z	7	6
y	28	24

$\Rightarrow (a-y) \cdot (b-z) = ?$

A) 10 B) 12 C) 14 D) 15 E) 16

5.

+	a	b	c
z			16
t	8		14

$\Rightarrow a + z = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

6.

+	a	b
a	c/3	
b		c

x	a	b
a	b	
b		

$\Rightarrow a + b + c = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

7.

+	a	b	c
a	b	d	
b		c	f
c			g

x	a	b	c
a	a		c
b	b	c	
c			h

$\Rightarrow$ **f + g + h = ?**

A) 20 B) 25 C) 30 D) 35 E) 40

8.

+	a	b	c
a			
b			12
c			

x	a	b	c
a		$6 \cdot c$	$6 \cdot b^2$
b			
c		32	

$\Rightarrow$ **a = ?**

A) 12 B) 14 C) 16 D) 18 E) 20

9.

+	a	b	c
a	b		
b			15

x	a	b	c
a	f		b + 6
b			a^2

$\Rightarrow \dfrac{b \cdot c}{a} = ?$

A) 6 B) 8 C) 12 D) 18 E) 24

10.

x	a	b	c
a			$8 \cdot b$
b		$9 \cdot c$	

$\Rightarrow$ **a·b = ?**

A) 64 B) 72 C) 76 D) 80 E) 84

11.

+	a	b	c
a	8		
b	11		15

x	a	b	c
a	d		e
b		f	

$\Rightarrow$ **d + e + f = ?**

A) 84 B) 97 C) 112 D) 116 E) 124

12.

+	a	b
a		
b		c
c		

x	a	b
a		
b		c
c	12	

$\Rightarrow a^2 + b^2 + c = ?$

A) 16 B) 17 C) 18 D) 19 E) 20

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1	2	3	4	5	6	7	8	9	10	11	12
A	C	E	D	D	E	C	A	A	B	B	B

1.

+	K	L	M
K		27	
L	9·M		
M			x

$\Rightarrow x = ?$

A) 1 B) 3 C) 6 D) 9 E) 12

2.

+	x	y	z
x			
y	20	18	
z			x+3

$\Rightarrow z = ?$

A) 11 B) 10 C) 9 D) 8 E) 7

3.

+	a	b	c
a		c+3	18
b			
c		21	

$\Rightarrow c = ?$

A) 12 B) 13 C) 14 D) 15 E) 16

4.

+	x	y	z
x	y/2		
y		z	
z			64

$\Rightarrow x + y + z = ?$

A) 22 B) 32 C) 42 D) 52 E) 62

5.

+	K	L	M
K	L		
L		M	
M			K^2

$\Rightarrow K = ?$

A) 8 B) 16 C) 32 D) 64 E) 72

6.

+	p	r	s
p			
r			
s		12	

$p + r + s = 16$
$p < r < s$
$\Rightarrow s = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

7.

+	a	b	c
a			12
b			
c		14	

b = c ⇒

Hangisi doğrudur?

Which one is correct?

A) a = b > c B) a > b = c C) b < a = c D) a < b = c E) c > a = b

8.

+	a	b	c	d
a		14		
b			22	
c	16			25

a + b + c = x

⇒ **d = ?**

A) $\frac{x}{2}$ B) x C) $\frac{3}{2x}$ D) 2x E) 3x

9.

+	d	e	f
d			
e		12	
f	1/k		

d + e + f = 24

⇒ **k = ?**

A) $\frac{1}{36}$ B) $\frac{1}{18}$ C) 3 D) 9 E) 18

10.

+	a	b	c
a		3·b	
b	c		

a + b + c = 24

⇒ **b = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

11.

+	a	b	c
a		24	
b			31
c	25		
d			

$a + b + c = (d - 2\sqrt{10})^2$

⇒ $\mathbf{d^2 = ?}$

A) 100 B) 120 C) 160 D) 180 E) 200

12.

+	a	b	c
a		14	
b			
c			a·b

0 ≤ a, b, c

⇒ **max(c) = ?**

A) 28 B) 24 C) 20 D) 16 E) 12

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YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	E	A	D	A	B	D	A	B	D	C	B

1.

+	$\sqrt{x}$	$\sqrt{y}$	$\sqrt{z}$
$\sqrt{x}$		a–b	
$\sqrt{y}$			a+c
$\sqrt{z}$	b+c		

+	a	b	c
a		14	
b			10
c	12		

$\Rightarrow \sqrt{x} = ?$

A) 0 B) 2 C) 4 D) 5 E) ∅

2.

+	$\sqrt{a}$	$\sqrt{121}$	$\sqrt{b}$
$\sqrt{a}$			$\sqrt{100}$
$\sqrt{121}$			
$\sqrt{b}$		$\sqrt{a}+5$	

$\Rightarrow a - b = ?$

A) 58 B) 60 C) 62 D) 64 E) 66

3.

+	K	L	M
K	L^2		
L		K	
M			L

$\Rightarrow K + L + M = ?$

A) 12 B) 14 C) 16 D) 18 E) 20

4.

+	4!	3!	2!
5!		126	
4!			26
x!	744		

$\Rightarrow x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

5.

+	a	b	c
a			12
b		c	$\frac{a}{2}$

$\Rightarrow a = ?$

A) 3 B) 6 C) 9 D) 18 E) 27

6.

+	a	b	c
a	b + 4		
b		a + c	
c			

$\Rightarrow a + b - c = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

7.

+	a	b	c
a		6	19
b			15

$\Rightarrow$ **c = ?**

A) 10 B) 11 C) 12 D) 13 E) 14

8.

+	a	b	c	d
a	x – 1		x + 1	x + 2
b		x + 1	x + 2	12
c	x + 1	x + 2		13
d	x + 2	12	13	x + 5

$\Rightarrow$ **a · b = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

9.

x	K	L	M
K			35
L	63		
M			

$\Rightarrow \dfrac{\mathbf{L + M}}{\mathbf{K}} = ?$

A) K B) L C) M D) L – K E) M + L

10.

x	a	b	c
a			
b			11
c	7		

$(a + b)^r = c$

$\Rightarrow$ **r = ?**

A) 4 B) 3 C) 2 D) 1 E) 0

11.

x	y	z	x–1
y		x^2	
z	9		
x+1			A

$0 < y < x < z$

$\Rightarrow$ **A = ?**

A) x + y + z B) y – z – x C) z – y D) x + z E) y – x

12.

x	a	b	c
a		192	
b			96
c	128		

$\Rightarrow$ **b + c – a = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

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1	2	3	4	5	6	7	8	9	10	11	12
A	B	B	E	C	A	E	C	D	E	C	B

1.

x	a	b	c
a			68
b	34		
c			
d		52	

$\Rightarrow$ **d = ?**

A) 13 B) 26 C) 39 D) 48 E) 84

2.

x	a	b	c
a		c	
b			
c			2^c

$a, b, c \in Z^+$

$\Rightarrow$ **max·(ab) – min·(ab) = ?**

A) 0 B) 1 C) 2 D) 3 E) 4

3.

x	a	b	c
a		K–5	**K**
b	**L**		
c	40		**M**

$\Rightarrow$ **K + L + M = ?**

A) 91 B) 101 C) 121 D) 131 E) 139

4.

x	a	b	c
a			
b			28
c	b		

$100 < b^2 < 200$

$\Rightarrow$ **a + b + c = ?**

A) 15 B) 17 C) 19 D) 21 E) 23

5.

x	a	b	c
a			
b		a	
c		10·a	

$\Rightarrow \dfrac{c^2}{a} = ?$

A) 25 B) 50 C) 75 D) 100 E) 125

6.

+	✻	☆	♣
✻	❐		
☆		$\frac{❐}{2}$	
♣	$\frac{3·❐}{2}$		

$\Rightarrow \dfrac{☆}{♣} = ?$

A) $\frac{1}{3}$ B) $\frac{1}{4}$ C) 1 D) $\frac{4}{3}$ E) $\frac{5}{3}$

7.

x	a	b	c
a	b	c	
b			
c	b^2		

$\Rightarrow$ **c·b = ?**

A) a B) a^2 C) a^3 D) a^4 E) a^5

8.

x	a	b	c
a	4·b		
b	$\frac{c}{2}$	c	
c			

$\Rightarrow$ **a^3 = ?**

A) b B) b^2 C) $2b^2$ D) $3b^2$ E) $4b^2$

9.

x	a	b	c
a		2·c	
b			
c		8·a	

b + c = 16

$\Rightarrow$ **a = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

10.

x	a	b	c
a		c	
b			a^2
c			

b + c = 130

$\Rightarrow$ **c = ?**

A) 5 B) 15 C) 25 D) 50 E) 125

11.

x	a	b	c
a	b		
b			
c		b^2	

$2 \cdot a = \frac{c}{2}$

$\Rightarrow$ **c =?**

A) 2 B) 4 C) 8 D) 16 E) 32

12.

x	a	b	c
a	3·b	3·c	b^2
b			
c			

$\Rightarrow$ **a^3 = ?**

A) c B) 3·c C) 6·c D) 9·c E) 12·c

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	E	E	D	B	E	C	B	E	D	D

1.

+	a	b	c
a	c		
b			
c			a+b

x	a	b	c
a			
b			
c	b+20		

$\Rightarrow$ **a = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

2.

+	a	b	c
a			
b			
c		30·a	

x	a	b	c
a	b		
b		c	
c			

$\Rightarrow$ **b = ?**

A) 3 B) 6 C) 9 D) 36 E) 81

3.

+	a	b	c
a	b		
b			
c	55		

x	a	b	c
a		c	
b			
c			

$\Rightarrow$ **c = ?**

A) 5 B) 10 C) 15 D) 25 E) 50

4.

+	a	b	c
a		c+1	
b			a+5
c			

x	a	b	c
a		c+12	
b		c	
c			

$\Rightarrow$ **a = ?**

A) 3 B) 5 C) 7 D) 9 E) 11

5.

+	a	b	c
K	2·L+2		
L		2·M+7	
M			2·K+1

a + b + c = 5

$\Rightarrow$ **K + L + M = ?**

A) 10 B) 5 C) 0 D) –5 E) 10

6.

+	a	b	c
a			2·b
b	c		
c		5·a	

$\Rightarrow \dfrac{\mathbf{b + c}}{\mathbf{a}} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

7.

+	a	b	c
a			72
b	60		
c		36	

$\Rightarrow \dfrac{a+c}{c-b} = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

8.

+	a	b	c
a	x		
b		y	
c			z

x	a	b	c
a			12
b	8		
c		24	

$\Rightarrow x + y + z = ?$

A) 20 B) 24 C) 28 D) 32 E) 36

9.

x	a	b	c
a·c			4·c
b·c			
a·b	48		

$\Rightarrow \dfrac{a \cdot b}{c} = ?$

A) 12 B) 11 C) 10 D) 9 E) 8

10.

+	a	b	c
a			
b			
c	3·b+2	a+2	

$\Rightarrow c - b = ?$

A) –1 B) 0 C) 1 D) 2 E) 3

11.

+	a	b	c
a			
b	c+3		
c		3·a+5	

$\Rightarrow b - a = ?$

A) 15 B) 11 C) 8 D) 7 E) 4

12.

+	a	b	c
a			2·b+1
b		2·c+4	
c		a	

$\Rightarrow \dfrac{b+c}{a} = ?$

A) 6 B) 4 C) 2 D) 1 E) 0

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1	2	3	4	5	6	7	8	9	10	11	12
A	C	E	C	D	E	D	B	A	D	E	D

1.

+	a	b	c
a			11
b	7		
c		10	

x	K	L	M
a			12
b	24		
c		14	

$\Rightarrow$ **K + L + M = ?**

A) 16 B) 15 C) 14 D) 13 E) 12

2.

+	a	b	c
a		x+5	
b			x+9
c	x+7		

x	a	b	c
a			
b			
c			16

$\Rightarrow$ **2·b = ?**

A) a + b B) c C) x + 1 D) a E) x + 8

3.

+	a	b	c
a			2b+x
b	c–x		
c		5a+x	

x	a	b	c
a	4		
b			
c	16		

$\Rightarrow$ **2·b – x + a = ?**

A) 6 B) 7 C) 8 D) 9 E) 10

4.

+	a	b	c
a	b+2		
b		4c	
c			a+2

x	a	b	c
a		K	
b			M
c	L		

$\Rightarrow$ **K + L + M = ?**

A) 51 B) 52 C) 53 D) 54 E) 55

5.

✌	46	97	38
56	21	**A**	
18	**B**		20
35		24	**C**

$\Rightarrow$ **A + B + C = ?**

A) 60 B) 62 C) 63 D) 65 E) 67

6.

❤	21	36	42
3	7		**B**
4		**A**	–
6	–	6	–

$\Rightarrow$ **B – A = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

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7.

❥	3	4	5
21	9		**A**
13		16	
42	**B**		30

⇒ **A + B = ?**

A) 30 B) 31 C) 33 D) 34 E) 35

8.

✪	36	48	16
71	45	**A**	
83		41	
98		**B**	26

⇒ **A + B = ?**

A) 68 B) 69 C) 70 D) 71 E) 72

9.

❐	4	8	12
15	7	–	–
20	**A**	4	–
25		**B**	1

⇒ **A – B = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

10.

▼	8	12	16
4	36		**A**
9		117	
15	**B**		255

⇒ **2·A – B = ?**

A) 0 B) 1 C) 2 D) 3 E) 4

11.

➦	42	64	36
2		**A**	18
4	–		
6	7	–	**B**

⇒ **A – 3·B = ?**

A) 10 B) 11 C) 12 D) 13 E) 14

12.

✤	4	6	8
12	16		**A**
16		20	
18	**B**		20

⇒ **B – A = ?**

A) 19 B) 20 C) 21 D) 22 E) 23

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1	2	3	4	5	6	7	8	9	10	11	12
D	B	C	D	D	A	C	B	C	B	E	B

1.

	14	16	18
24	19	**B**	**A**
26		21	
28			23

⇒ **A – B = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

2.

	2	3	4
1	4		**A**
2		**B**	64
3	**C**	81	

⇒ $\sqrt{A + C - B} = ?$

A) 1 B) 2 C) 4 D) 8 E) 16

3.

	12	16	19
8	20		–
9		–	**A**
10	**B**	26	

⇒ **A, B = ?**

A) —, 22 B) 28, — C) 22, 28 D) —, 28 E) 28, 22

4.

	81	93	71
63	9		**A**
82		13	
74	**B**		10

⇒ **B + A = ?**

A) 19 B) 20 C) 21 D) 22 E) 23

5.

	☾		
2	10	**C**	9
3	**B**	11	13
4	16	13	**A**

⇒ **A + B + C = ?**

A) 36 B) 37 C) 38 D) 39 E) 40

6.

	✂		⊙
2	8	5	**A**
3	**B**	24	91
4	20	**C**	266

⇒ **A + B + C = ?**

A) 96 B) 97 C) 98 D) 99 E) 103

7.

	⋆	⊡	◘
2	2	**A**	4
3	**B**	6	8
4	6	9	**C**

⇒ **A + B + C = ?**

A) 20 B) 19 C) 18 D) 17 E) 16

8.

	⦸	🖶	✎
8	23	**B**	27
10	29	22	**C**
12	**A**	26	43

⇒ **A + B – C = ?**

A) 18 B) 19 C) 20 D) 21 E) 22

9.

	✤	✓	✘
34	13	**B**	8
26	**A**	3	9
49	37	4	**C**

⇒ **A + B + C = ?**

A) 26 B) 27 C) 28 D) 29 E) 30

10.

	❤	♣	♠
5	**A**	10	17
7	18	16	**C**
9	22	**B**	33

⇒ **A + B + C = ?**

A) 59 B) 60 C) 61 D) 62 E) 63

11.

	18	6	12
❏	**A**	9	18
▲	12	**B**	8
●	72	24	**C**

⇒ **A + B + C = ?**

A) 79 B) 80 C) 81 D) 82 E) 83

12.

	✏	➾	✍
42	**A**	9	10
24	16	9	**C**
27	18	**B**	11

⇒ **A + B + C = ?**

A) 47 B) 48 C) 49 D) 50 E) 51

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1	2	3	4	5	6	7	8	9	10	11	12
A	C	E	A	D	E	B	A	B	C	A	E

1.

	63	84	24	48	31
✖	12	K	1	2	9
✏	–	2	8	L	–
✍	M	4	–	–	9

$\Rightarrow$ K + L + M = ?

A) 24 B) 28 C) 32 D) 36 E) 40

2.

	24	14	13
✻	217	126	K
❢	38	L	18
❤	M	81	16

$\Rightarrow$ K + L + M = ?

A) 106 B) 108 C) 110 D) 112 E) 114

3.

	23	42	43
▼	35	K	91
▲	L	20	25
✪	31	24	M
✳	17	N	73

$\Rightarrow$ K + L + M + N = ?

A) 195 B) 196 C) 197 D) 198 E) 199

4.

	8	16	4	9
▼	4	K	$\sqrt[3]{16}$	$3\sqrt[3]{3}$
▲	$16\sqrt{2}$	64	L	27

$\Rightarrow$ L; K = ?

A) $4\sqrt{2}$; 8 B) $4\sqrt{2}$; 4 C) $\sqrt[3]{4}$; 4 D) $2\sqrt[3]{4}$; 4 E) $4\sqrt[3]{4}$; 8

5.

	2	5	3	5
	7	6	6	4
	4	1	2	3
	3	4	4	2
Sonuç (Result)	39	48	?	24

A) 38 B) 40 C) 42 D) 44 E) 46

6.

	2	1	2	5
	3	6	3	4
	4	3	4	3
	5	4	6	2
Sonuç (Result)	54	?	65	54

A) 61 B) 62 C) 63 D) 64 E) 65

7.

				Sonuç (Result)
	4	8	9	3
	10	13	5	10
	7	8	15	**K**
Sonuç (Result)	2	**L**	18	

$\Rightarrow$ **K + L = ?**

A) 20 B) 21 C) 22 D) 23 E) 24

8.

					Sonuç (Result)
	3	1	4	2	6
	2	1	3	2	3
	4	2	3	3	**K**
	2	4	1	2	7
Sonuç (Result)	4	8	**L**	2	

$\Rightarrow$ **K + L = ?**

A) 9 B) 10 C) 11 D) 12 E) 13

9.

				Sonuç (Result)
8	2	7	6	5
5	3	9	5	4
2	1	7	2	3
8	9	6	4	**?**

A) 9 B) 10 C) 11 D) 12 E) 13

10.

				Sonuç (Result)
12	3	7	5	18
9	2	8	3	35
17	12	8	5	**?**
6	1	4	0	20

A) 15 B) 16 C) 17 D) 18 E) 19

11.

					Sonuç (Result)
	37	43	27	56	**A**
	21	19	17	31	88
	43	39	44	13	139
	17	16	29	46	108
Sonuç (Result)	84	85	**B**	54	

$\Rightarrow$ **A + B = ?**

A) 220 B) 221 C) 222 D) 223 E) 224

12.

					Sonuç (Result)
	9	7	6	3	28
	8	1	7	10	36
	2	9	6	5	27
	9	1	7	6	**a**
Sonuç (Result)	1	15	5	**b**	

$\Rightarrow$ **$a - 4 \cdot b$ = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

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1	2	3	4	5	6	7	8	9	10	11	12
D	B	B	E	D	B	B	D	A	A	C	E

1.

9	7	1	6
8	5	1	3
9	6	1	5
4	9	1	?

A) 1 B) 2 C) 3 D) 4 E) 5

2.

8	2	4	3
4	2	4	6
9	7	2	8
7	3	?	5

A) 1 B) 2 C) 3 D) 4 E) 5

3.

8	8	1	1
2	3	2	5
4	4	3	9
6	6	2	?

A) 1 B) 2 C) 3 D) 4 E) 5

4.

2	9	7	3
3	7	5	5
1	9	8	2
?	7	6	8

A) 4 B) 5 C) 6 D) 7 E) 8

5.

82	15	6	?
97	35	6	2
76	42	3	4
94	63	3	1

A) 4 B) 5 C) 6 D) 7 E) 8

6.

4	2	1	6
6	3	3	6
8	4	6	4
2	3	1	?

A) 1 B) 2 C) 3 D) 4 E) 5

7.

3	3	2	7
7	2	4	9
2	5	3	2
3	4	**?**	1

A) 9 B) 8 C) 7 D) 6 E) 5

8.

2	8	1	2
3	4	1	3
4	6	2	2
3	**?**	1	8

A) 5 B) 6 C) 7 D) 8 E) 9

9.

1	6	0	3
2	4	1	4
7	9	2	2
5	18	7	93
122	631	5	**?**

A) 162 B) 249 C) 333 D) 451 E) 506

10.

▲	4	7	8	9
6				
3		31		
4			**?**	
6	34			69

A) 40 B) 41 C) 42 D) 43 E) 44

11.

	❑	▲	○	▮
6	11	19	42	**b**
12	**a**	37	**c**	52
4	7	**d**	20	20

⇒ c − (a + b + d) = ?

A) 81 B) 85 C) 92 D) 100 E) 105

12.

+	a	b	c
a			
b		c	

x	a	b	c
a	b+a		
b	2·c		

⇒ c + b = ?

A) 28 B) 30 C) 32 D) 34 E) 36

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	E	D	B	D	B	B	E	B	E	C	E

1.

4	4	11	8
6	3	7	1
13	8	6	3
23	15	**?**	12

A) 8 B) 12 C) 16 D) 20 E) 24

2.

14	1	9	6
?	2	8	9
6	0	3	6
20	4	0	0
25	6	2	5

A) 17 B) 16 C) 15 D) 14 E) 13

3.

	●	▲	■
5	10	**c**	8
3	8	6	6
7	12	14	**a**
2	**b**	4	5
9	14	18	12

$\Rightarrow$ **a + b + c = ?**

A) 28 B) 27 C) 26 D) 25 E) 24

4.

❑	12	46	93
11	5		5
42		**?**	9
113	8		

A) 4 B) 10 C) 16 D) 22 E) 28

5.

+	K	L	M
K		**a**	21
L	30		**c**
M	**b**	25	

$\Rightarrow \sqrt{\mathbf{b} + \mathbf{c} - \mathbf{a}} = ?$

A) 16 B) 62 C) 8 D) 4 E) 1

6.

x	x	y	z
12		10·x	
3			
4	24		
1		z–3	

$\Rightarrow$ **x + y + z = ?**

A) 20 B) 19 C) 18 D) 17 E) 16

7.

●	❑	▲	⬡
❑		49	
○	**?**		49
◯	144		

A) 9 B) 16 C) 25 D) 36 E) 49

8.

6	4	3	1	21
4	2	1	9	–1
8	3	6	4	0
9	7	10	6	**?**
7	7	9	5	4

A) 5 B) 4 C) 3 D) 2 E) 1

9.

+	a	b	c
a		2·c+2	
b			
c	3·b–4	a+6	

$\Rightarrow$ **a – b = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

10.

+	a	b	c
a	b	c	
b			

x	a	b	c
a	4·b		
b			

$\Rightarrow$ **c – 2·a = ?**

A) 2 B) 6 C) 8 D) 10 E) 16

11.

6	2	4	**?**
8	6	1	25
4	3	2	11
9	2	1	71

A) 36 B) 37 C) 38 D) 39 E) 40

12.

+	a	b	c
a	b		
b	c–a	c	
c			

a + c = 15

$\Rightarrow$ **c + b = ?**

A) 12 B) 18 C) 24 D) 36 E) 72

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	A	B	C	D	B	C	C	B	C	C	B

SAYILAR
NUMBERS

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} K\,4\,L\,2 \\ +\ 2\,K\,L\,3 \\ \hline 5\,8\,4\,5 \end{array} \Rightarrow K \times L = ?$$

A) 6

B) 9

C) 10

D) 12

E) 21

2.

$$\begin{array}{r} K\,L\,M \\ +\ M\,5\,L \\ \hline L\,4\,0 \end{array} \Rightarrow K = ?$$

A) 2

B) 3

C) 5

D) 6

E) 8

3.

$$\begin{array}{r} N\,L\,3 \\ +\ \ M\,N\,M \\ \hline L\,M\,L\,L \end{array} \Rightarrow L + M + N = ?$$

A) 16

B) 17

C) 18

D) 19

E) 20

4.

$$\begin{array}{r} a\,b\,c\,6 \\ 3\,b\,a\,6 \\ +\ \ b\,4\,c\,b \\ \hline 1\,a\,7\,9\,c \end{array} \Rightarrow abc = ?$$

A) 682

B) 826

C) 268

D) 148

E) 841

5.

$$\begin{array}{r} A\,L\,P\,A\,Y \\ +\ E\,M\,R\,A\,H \\ \hline \cdot\ \cdot\ \cdot\ 5\,7 \end{array} \Rightarrow Y + H = ?$$

A) 7

B) 17

C) 27

D) 47

E) 57

6.

$$\begin{array}{r} A\,B\,C \\ D\,B\,C \\ +\ \ B\,C\,0 \\ \hline 1\,C\,4\,0 \end{array} \Rightarrow B + A + D = ?$$

A) 10

B) 12

C) 13

D) 14

E) 15

7.

$$\begin{array}{r} \alpha\ \beta\ \gamma \\ \gamma\ \alpha\ \alpha \\ \beta\ \alpha\ \gamma \\ \beta\ \gamma\ \beta \\ \gamma\ \beta\ \beta \\ +\quad \alpha\ \gamma\ \alpha \\ \hline 3\ 1\ 0\ 8 \end{array} \Rightarrow \alpha + \beta + \gamma = ?$$

A) 8

B) 14

C) 28

D) 30

E) 38

8.

$$\begin{array}{r} 3\ 2\ K\ L \\ +\ 2\ M\ 9\ 6 \\ \hline M\ K\ K\ 3 \end{array} \Rightarrow K : M = ?$$

A) 8:5

B) 6:7

C) 7:5

D) 5:7

E) 6:7

9.

$$\begin{array}{r} K \\ +\ K \\ \hline M \end{array} \quad \begin{array}{r} L \\ +\ L \\ \hline N \end{array} \Rightarrow M \times N = ?$$

A) 23

B) 24

C) 45

D) 63

E) 72

10.

$$\begin{array}{r} K\ L\ M \\ L\ M\ K \\ +\ M\ K\ L \\ \hline S\ S\ S \end{array} \quad \begin{array}{r} K\ L \\ +\ L\ K \\ \hline T\ T \end{array} \Rightarrow \min(T \cdot S) = ?$$

A) 15

B) 18

C) 20

D) 21

E) 30

11.

$$\begin{array}{r} 2\ 8\ 9 \\ +\ 1\ a\ 7 \\ \hline c\ d\ \cdot \end{array} \Rightarrow c = ?$$

A) 3

B) 4

C) 13

D) 14

E) 24

12.

$$\begin{array}{r} A\ B \\ +\ C\ D \\ \hline 9\ 7 \end{array} \quad \begin{array}{r} K\ L \\ +\ M\ N \\ \hline 8\ 2 \end{array} \Rightarrow \max(B + D + K + M) = ?$$

A) 14

B) 15

C) 24

D) 25

E) 26

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	C	C	C	B	D	B	A	B	D	B	C

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} K\ L\ M \\ L\ M \\ +\quad M \\ \hline 1\ 0\ 1\ 2 \end{array} \Rightarrow K + L + M = ?$$

A) 16
B) 17
C) 18
D) 19
E) 20

2.

$$\begin{array}{r} K\ K\ K \\ L\ L\ L \\ +\ M\ M\ M \\ \hline 1\ 4\ 4\ 3 \end{array} \Rightarrow \max(M) = ?$$

A) 11
B) 10
C) 9
D) 8
E) 7

3.

$$\begin{array}{r} K \\ -\ L \\ \hline M \end{array} \qquad \begin{array}{r} K \\ +\quad L \\ \hline M\ M \end{array} \Rightarrow K \cdot L = ?$$

A) 10
B) 18
C) 24
D) 28
E) 30

4.

$$\begin{array}{r} K \\ K \\ K \\ K \\ +\ K \\ \hline a\ 0 \end{array} \qquad \begin{array}{r} K \\ K \\ K \\ +\ K \\ \hline b\ c \end{array} \qquad \begin{array}{r} K \\ K \\ +\ K \\ \hline b\ a \end{array} \Rightarrow a + b + c = ?$$

A) 9
B) 10
C) 11
D) 21
E) 27

5.

$$\begin{array}{r} \blacksquare \\ +\ \bigcirc \\ \hline \square \end{array} \qquad \begin{array}{r} \square \\ +\ \blacklozenge \\ \hline 12 \end{array} \Rightarrow \begin{array}{r} \bigcirc \\ \blacklozenge \\ +\ \blacksquare \\ \hline ? \end{array}$$

A) 12
B) 13
C) 14
D) 15
E) 18

6.

$$\begin{array}{r} \bigcirc\bigcirc\bigcirc \\ +\ \square\square\square \\ \hline 8\ 8\ 8 \end{array} \qquad \begin{array}{r} \bigcirc \\ -\ \square \\ \hline 4 \end{array} \Rightarrow \bigcirc \times \square = ?$$

A) 8
B) 10
C) 12
D) 14
E) 16

7.
$$\begin{array}{r} K\ L \\ +\ \ L\ K \\ \hline 1\ 3\ 2 \end{array} \qquad \begin{array}{r} K\ L \\ -\ L\ K \\ \hline 1\ 8 \end{array} \Rightarrow K \cdot L = ?$$

A) 27

B) 30

C) 32

D) 35

E) 36

8.
$$\begin{array}{r} K\ B \\ +\ \ \ K \\ \hline M\ N \end{array} \qquad \begin{array}{r} M\ N \\ +\ \ \ M \\ \hline 4\ \clubsuit \end{array} \qquad \begin{array}{r} \clubsuit \\ +\ K \\ \hline 8 \end{array} \Rightarrow K = ?$$

A) 5

B) 4

C) 3

D) 2

E) 1

9.
$$\begin{array}{r} K \\ +\ L \\ \hline M \end{array} \Rightarrow K + L + M = ?$$

A) 4

B) 5

C) 7

D) 8

E) 9

10.
$$\begin{array}{r} a\ a\ c \\ 1\ a\ a \\ 3\ 1\ a \\ 1\ 1\ a \\ 2\ 3\ a \\ +\ \ 3\ 3\ 3 \\ \hline 1\ 3\ 3\ 2 \end{array} \Rightarrow a + c = ?$$

A) 2

B) 3

C) 5

D) 6

E) 8

11.
$$\begin{array}{r} K \\ +\ K \\ \hline L \end{array} \qquad \begin{array}{r} L \\ +\ L \\ \hline M \end{array} \qquad \begin{array}{r} N \\ +\ N \\ \hline R \end{array} \Rightarrow L + M + R = ?$$

A) 6

B) 8

C) 10

D) 12

E) 14

12.
$$\begin{array}{r} M \\ +\ 3 \\ \hline N \end{array} \qquad \begin{array}{r} N \\ +\ 2 \\ \hline T \end{array} \qquad \begin{array}{r} M \\ +\ T \\ \hline 9 \end{array} \Rightarrow N = ?$$

A) 3

B) 4

C) 5

D) 6

E) 7

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1	2	3	4	5	6	7	8	9	10	11	12
C	C	E	A	A	C	D	C	D	B	D	C

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $$\begin{array}{r} K \\ -\ 8 \\ \hline L \end{array} \Rightarrow \mathbf{K \times L = ?}$$

A) 1
B) 4
C) 5
D) 8
E) 9

2. $$\begin{array}{r} K\ L \\ -\ L\ K \\ \hline M \end{array} \qquad \begin{array}{r} K \\ -\ L \\ \hline 1 \end{array} \Rightarrow \mathbf{M = ?}$$

A) 1
B) 3
C) 5
D) 7
E) 9

3. $$\begin{array}{r} K\,L \\ -\ L\,K \\ \hline P\,T \end{array} \qquad \begin{array}{r} K \\ -\ L \\ \hline T \end{array} \qquad \begin{array}{r} T \\ -\ P \\ \hline 1 \end{array} \Rightarrow \mathbf{P \times T = ?}$$

A) 6
B) 20
C) 30
D) 56
E) 72

4. $$\begin{array}{r} K\ L \\ -\ L\ K \\ \hline P\ T \end{array} \qquad \begin{array}{r} K \\ -\ L \\ \hline M \end{array} \qquad PT = x \cdot 9 \Rightarrow \mathbf{x = ?}$$

A) K
B) L
C) P
D) T
E) M

5. $$\begin{array}{r} K\ L \\ -\ L\ K \\ \hline P\ T \end{array} \qquad \begin{array}{r} K \\ -\ L \\ \hline 2 \end{array} \Rightarrow \mathbf{P + T = ?}$$

A) 2
B) 5
C) 6
D) 9
E) 10

6. $$\begin{array}{r} 6\ K \\ -\ K\ L \\ \hline L\ 9 \end{array} \qquad \begin{array}{r} K \\ +\ L \\ \hline 5 \end{array} \Rightarrow \mathbf{K = ?}$$

A) 1
B) 2
C) 3
D) 5
E) 7

7.
$$\begin{array}{r} K\ L\ M \\ -\ M\ L\ K \\ \hline \cdot\ P\ \cdot \end{array} \Rightarrow P = ?$$

A) 3
B) 5
C) 7
D) 8
E) 9

8.
$$\begin{array}{r} K\ L\ 2 \\ -\ N\ L\ M \\ \hline 2\ K\ 5 \end{array} \qquad \begin{array}{r} K \\ -\ 4 \\ \hline L \end{array} \Rightarrow K + L + M + N = ?$$

A) 15
B) 25
C) 27
D) 30
E) 33

9.
$$\begin{array}{r} K\ L\ M\ 3 \\ -\ 3\ M\ L\ K \\ \hline 1\ M\ 1\ M \end{array} \qquad \begin{array}{r} M \\ -\ L \\ \hline 2 \end{array} \Rightarrow KLM = ?$$

A) 479
B) 468
C) 546
D) 568
E) 679

10.
$$\begin{array}{r} 4\ A\ B \\ -\ 1\ B\ A \\ \hline A\ 4\ C \end{array} \qquad \begin{array}{r} B \\ -\ 2 \\ \hline C \end{array} \Rightarrow C = ?$$

A) 2
B) 3
C) 5
D) 6
E) 8

11.
$$\begin{array}{r} K\ L\ M\ L \\ -\ \ \ M\ 1\ 4 \\ \hline M\ 4\ 6\ M \end{array} \Rightarrow K = ?$$

A) 2
B) 3
C) 5
D) 7
E) 9

12.
$$\begin{array}{r} K \\ -\ 5 \\ \hline L \end{array} \qquad \begin{array}{r} L \\ -\ 3 \\ \hline M \end{array} \Rightarrow K + L + M = ?$$

A) 9
B) 11
C) 13
D) 14
E) 17

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	E	B	E	D	B	E	C	D	D	E	D

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} A\ B\ C \\ -\ 2\ B\ A \\ \hline 2\ S\ S \end{array} \Rightarrow \mathbf{C = ?}$$

A) 1

B) 3

C) 4

D) 5

E) 7

2.

$$\begin{array}{r} A\ B\ C \\ -\quad A\ B \\ \hline 5\ 8\ 8 \end{array} \Rightarrow \mathbf{C = ?}$$

A) 1

B) 2

C) 3

D) 5

E) 9

3.

$$\begin{array}{r} K\ L \\ -\ L\ K \\ \hline x\ y \end{array} \Rightarrow \mathbf{max(x \cdot y) = ?}$$

A) 20

B) 22

C) 24

D) 26

E) 28

4.

$$\begin{array}{r} A\ 0\ B \\ -\quad B\ A \\ \hline C\ 1\ 3 \end{array} \Rightarrow \mathbf{C = ?}$$

A) 1

B) 3

C) 5

D) 7

E) 9

5.

$$\begin{array}{r} 9\ A\ 6\ 3 \\ -\ A\ 2\ A\ B \\ \hline \cdot\ 5\ B\ 6 \end{array} \Rightarrow \mathbf{AB = ?}$$

A) 87

B) 78

C) 63

D) 52

E) 36

6.

$$\begin{array}{r} A\ B\ C \\ -\quad B\ D \\ \hline B\ A\ E \end{array} \quad D > C \Rightarrow \mathbf{A + B = ?}$$

A) 17

B) 16

C) 15

D) 14

E) 13

7.
$$\begin{array}{r} A\ B\ A \\ -\ B\ A\ B \\ \hline 1\ C\ B \end{array} \Rightarrow C = ?$$

A) 1
B) 2
C) 5
D) 8
E) 9

8.
$$\begin{array}{r} B\ 9\ C \\ -\ A\ A\ B \\ \hline C\ 4\ B \end{array} \qquad \begin{array}{r} A\ B \\ -\ A\ C \\ \hline 4 \end{array} \Rightarrow A = ?$$

A) 1
B) 2
C) 4
D) 6
E) 9

9.
$$\begin{array}{r} A\ B\ C \\ -\ \ \ C\ A \\ \hline 2\ 3\ A \end{array} \Rightarrow B = ?$$

A) 2
B) 3
C) 5
D) 7
E) 9

10.
$$\begin{array}{r} K\ L\ M \\ -\ M\ L\ K \\ \hline V\ T\ R \end{array} \Rightarrow T = ?$$

A) 5
B) 6
C) 7
D) 8
E) 9

11.
$$\begin{array}{r} A\ B \\ -\ C\ C \\ \hline B\ 5 \end{array} \qquad \begin{array}{r} B\ 5 \\ -\ 6\ E \\ \hline 1\ 2 \end{array} \Rightarrow A = ?$$

A) 1
B) 2
C) 5
D) 7
E) 9

12.
$$\begin{array}{r} A\ B \\ -\ \ \ C \\ \hline 9 \end{array} \qquad \begin{array}{r} 9 \\ -\ C \\ \hline A \end{array} \Rightarrow B = ?$$

A) 1
B) 6
C) 7
D) 8
E) 9

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	C	A	C	A	A	D	C	D	E	E	C

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} A\ B \\ +\ \ C\ B \\ \hline 1\ C\ 6 \end{array} \Rightarrow \mathbf{A + B = ?}$$

A) 13
B) 17
C) 19
D) 21
E) 23

2.
$$\begin{array}{r} K\ L\ M \\ -\ N\ P\ T \\ \hline 4\ 7\ 1 \end{array} \qquad \begin{array}{r} K\ L\ M \\ +\ \ N\ P\ T \\ \hline 1\ 3\ 2\ 3 \end{array} \Rightarrow \mathbf{NPT = ?}$$

A) 897
B) 471
C) 426
D) 324
E) 312

3.
$$\begin{array}{r} 2\ L\ M \\ -\ \ N\ K \\ \hline P\ 1\ 1 \end{array} \qquad \begin{array}{r} L\ M \\ +\ \ N\ K \\ \hline 1\ 5\ 7 \end{array} \Rightarrow \mathbf{NK = ?}$$

A) 72
B) 73
C) 84
D) 48
E) 83

4.
$$\begin{array}{r} K\ L\ M \\ +\ \ N\ L \\ \hline 5\ 6\ 1 \end{array} \qquad \begin{array}{r} L\ M \\ -\ 1\ 5 \\ \hline N\ L \end{array} \Rightarrow \mathbf{KN = ?}$$

A) 24
B) 25
C) 52
D) 56
E) 64

5.
$$\begin{array}{r} A\ B \\ -\ C\ 5 \\ \hline 2\ A \end{array} \qquad \begin{array}{r} 7\ A \\ +\ 2\ 5 \\ \hline B\ B \end{array} \Rightarrow \mathbf{ABC = ?}$$

A) 204
B) 249
C) 492
D) 542
E) 942

6.
$$\begin{array}{r} K\ L\ M \\ -\ M\ L\ K \\ \hline 3\ K\ 6 \end{array} \Rightarrow \mathbf{KM = ?}$$

A) 14
B) 36
C) 49
D) 59
E) 95

7.
$$\begin{array}{r} K\ L \\ +\ 2\ L \\ \hline 7\ A \end{array} \qquad \begin{array}{r} L \\ -\ K \\ \hline 5 \end{array} \quad \Rightarrow \quad \mathbf{K + L = ?}$$

A) 13
B) 11
C) 10
D) 9
E) 7

8.
$$\begin{array}{r} K \\ -\ L \\ \hline 2 \end{array} \qquad \begin{array}{r} L \\ -\ M \\ \hline 2 \end{array} \qquad \begin{array}{r} M \\ -\ N \\ \hline 2 \end{array} \qquad \begin{array}{l} N > 1 \\ K + N = 12 \quad \Rightarrow \quad \mathbf{K \times N = ?} \end{array}$$

A) 7
B) 16
C) 27
D) 30
E) 48

9.
$$\begin{array}{r} A\ B\ C \\ +\quad A\ C \\ \hline C\ A\ D \end{array} \qquad \begin{array}{r} B \\ -\ C \\ \hline 3 \end{array} \quad \Rightarrow \quad \mathbf{A = ?}$$

A) 2
B) 5
C) 6
D) 7
E) 9

10.
$$\begin{array}{r} A\ B\ C \\ -\quad A\ C \\ \hline D\ D\ 0 \end{array} \qquad \begin{array}{r} A \\ -\ B \\ \hline 3 \end{array} \quad \Rightarrow \quad \mathbf{A = ?}$$

A) 2
B) 4
C) 5
D) 6
E) 8

11.
$$\begin{array}{r} A\ B\ C \\ -\quad C\ A \\ \hline 5\ 1\ 2 \end{array} \qquad \begin{array}{r} B \\ +\quad C \\ \hline 1\ 5 \end{array} \quad \Rightarrow \quad \mathbf{B = ?}$$

A) 5
B) 6
C) 7
D) 8
E) 9

12.
$$\begin{array}{r} \alpha\ B\ \gamma \\ -\quad \theta \\ \hline \alpha\ \alpha\ 8 \end{array} \qquad \begin{array}{r} \alpha \\ +\quad \theta \\ \hline 1\ 4 \end{array} \quad \Rightarrow \quad \mathbf{max(\theta) = ?}$$

A) 2
B) 4
C) 6
D) 8
E) 9

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1	2	3	4	5	6	7	8	9	10	11	12
B	C	B	C	C	E	A	C	B	E	D	E

Aşağıdaki sorularda verilen işlemlerdeki harfler sıfır veya birbirine eşit olabilecektir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, the letters may equal to zero or each other. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $$\begin{array}{r} K\,9\,M \\ +\quad X\,Y \\ \hline 4\,K\,M \end{array} \Rightarrow X + Y = ?$$

A) 3
B) 4
C) 5
D) 6
E) 7

2. $$\begin{array}{r} K\,L\,M \\ -\quad A\,B \\ \hline M\,A \end{array} \qquad \begin{array}{r} L\,K\,B \\ +\quad 2\,L \\ \hline L\,4\,K \end{array} \Rightarrow K + L + B = ?$$

A) 10
B) 11
C) 12
D) 13
E) 14

3. $$\begin{array}{r} K\,L\,M \\ +\quad T\,P \\ \hline 1\,0\,7\,1 \end{array} \Rightarrow K + L + M + T + P = ?$$

A) 32
B) 33
C) 34
D) 35
E) 36

4. $$\begin{array}{r} K\,4\,9 \\ +\ M\,L\,P \\ \hline 4\,5\,2 \end{array} \Rightarrow K + L + M = ?$$

A) 3
B) 4
C) 5
D) 6
E) 7

5. $K + M = 17$
$L + P = 12$
$N + S = 1$

$$\Rightarrow \begin{array}{r} K\,L\,N \\ +\ M\,P\,S \\ \hline ? \end{array}$$

A) 1821
B) 1721
C) 1801
D) 1832
E) 1841

6. $$\begin{array}{r} K\,P\,T\,L \\ -\ L\,7\,6\,T \\ \hline L\,0\,6\,8 \end{array} \Rightarrow K + L + P + T = ?$$

A) 11
B) 12
C) 13
D) 14
E) 15

7.
$$\begin{array}{r} 9\ L\ M\ 6 \\ +\quad K\ 8\ 9\ 4 \\ \hline \cdot\ 3\ 2\ M\ N \end{array} \Rightarrow K + L = ?$$

A) 4

B) 6

C) 8

D) 10

E) 12

8.
$$\begin{array}{r} K\ L \\ -\ 5\ 6 \\ \hline M\ 8 \end{array} \qquad \begin{array}{r} T\ P\ K \\ +\quad 2\ 8 \\ \hline 5\ 7\ 5 \end{array} \Rightarrow K + L + P = ?$$

A) 8

B) 10

C) 11

D) 13

E) 15

9. $M < P$
$$\begin{array}{r} K\ L\ M\ 1 \\ -\quad 8\ P\ T \\ \hline 1\ 1\ \cdot\ 9 \end{array} \Rightarrow K + L + T = ?$$

A) 3

B) 4

C) 8

D) 9

E) 11

10.
$$\begin{array}{r} K\ L\ P\ 6 \\ -\quad 9\ 8\ M \\ \hline 1\ L\ M\ 4 \end{array} \Rightarrow \begin{array}{r} K\ P\ L \\ -\quad M\ L \\ \hline ? \end{array}$$

A) 160

B) 170

C) 180

D) 190

E) 200

11.
$$\begin{array}{r} K\ L \\ +\ P\ T \\ \hline 6\ P \end{array} \qquad \begin{array}{r} L\ K \\ -\ T\ P \\ \hline 9 \end{array} \Rightarrow (L + T) - (P + K) = ?$$

A) 5

B) 6

C) 7

D) 8

E) 9

12.
$$\begin{array}{r} K\ L \\ +\quad M\ N \\ \hline 1\ 2\ 0 \end{array} \qquad \begin{array}{r} 7\ K \\ -\ L\ M \\ \hline 1\ 5 \end{array} \Rightarrow (K + L) - (M + N) = ?$$

A) 3

B) 5

C) 7

D) 9

E) 11

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	E	B	A	D	B	E	B	C	D	C

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} K \\ -\ L \\ \hline L \end{array} \qquad \begin{array}{r} K \\ +\ \ L \\ \hline 1\ 8 \end{array} \qquad K \geq 10 \Rightarrow \mathbf{2K + L = ?}$

A) 22
B) 24
C) 26
D) 28
E) 30

2. $\begin{array}{r} K \\ -\ L \\ \hline 3 \end{array} \qquad \begin{array}{r} K\ L \\ -\ L\ K \\ \hline T\ V \end{array} \Rightarrow \mathbf{T + V = ?}$

A) 6
B) 7
C) 8
D) 9
E) 10

3. $\begin{array}{r} M\ L \\ -\ 1\ 9 \\ \hline L\ K \end{array} \Rightarrow \mathbf{M - K = ?}$

A) 1
B) 2
C) 3
D) 4
E) 5

4. $\begin{array}{r} K \\ +\ L \\ \hline M \end{array} \qquad \begin{array}{r} L \\ +\ M \\ \hline P \end{array} \qquad \begin{array}{r} P \\ -\ K \\ \hline R \end{array} \Rightarrow \mathbf{L = ?}$

A) R
B) $\frac{R}{2}$
C) $\frac{R}{3}$
D) $\frac{R}{4}$
E) $\frac{R}{5}$

5. $\begin{array}{r} K \\ +\ L \\ \hline M \end{array} \qquad \begin{array}{r} M \\ +\ K \\ \hline S \end{array} \qquad \begin{array}{r} S \\ +\ L \\ \hline 6 \end{array} \Rightarrow \mathbf{M = ?}$

A) 1
B) 2
C) 3
D) 5
E) 6

6. $\begin{array}{r} K \\ +\ \ L \\ \hline M\ M \end{array} \qquad \begin{array}{r} K \\ \times\ \ L \\ \hline M\ T \end{array} \Rightarrow \mathbf{K - L = ?}$

A) 3
B) 4
C) 5
D) 6
E) 7

7. $\begin{array}{r} ABC \\ -\ BA \\ \hline CEE \end{array} \Rightarrow A - C = ?$

A) 1
B) 2
C) 3
D) 4
E) 5

8. $\begin{array}{r} KLM \\ +\ MRK \\ \hline 777 \end{array} \Rightarrow K + L + M + R = ?$

A) 15
B) 14
C) 13
D) 12
E) 11

9. $\begin{array}{r} ABC \\ +\ BAA \\ \hline 7E0 \end{array} \Rightarrow E = ?$

A) 8
B) 7
C) 6
D) 5
E) 4

10. $\begin{array}{r} KLM \\ LMK \\ +\ MKL \\ \hline 666 \end{array} \quad \begin{array}{r} M \\ -\ L \\ \hline 1 \end{array} \quad \begin{array}{r} L \\ -\ K \\ \hline 1 \end{array} \Rightarrow K \cdot L \cdot M = ?$

A) 12
B) 8
C) 6
D) 4
E) 2

11. $\begin{array}{r} KL \\ +\ L \\ \hline MM \end{array} \quad \begin{array}{r} K \\ +\ 2 \\ \hline L \end{array} \Rightarrow M = ?$

A) 5
B) 6
C) 7
D) 8
E) 9

12. $\begin{array}{r} 2AB \\ +\ C47 \\ \hline BC5 \end{array} \Rightarrow A + B + C = ?$

A) 17
B) 16
C) 15
D) 14
E) 13

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	D	A	B	C	E	A	B	A	C	D	C

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} K \\ +\ 8 \\ \hline L \end{array} \Rightarrow$ **K + L = ?**

A) 9
B) 10
C) 11
D) 12
E) 13

2. $\begin{array}{r} A\ B \\ -\ B\ A \\ \hline T \end{array} \Rightarrow$ **T = ?**

A) 9
B) 8
C) 7
D) 6
E) 5

3. $\begin{array}{r} A\ B\ C \\ -\quad 7\ B \\ \hline C\ A\ 2 \end{array} \qquad \begin{array}{r} C \\ \times\ B \\ \hline C \end{array} \Rightarrow$ **A + B + C = ?**

A) 4
B) 5
C) 6
D) 7
E) 8

4. $\begin{array}{r} K\ 0\ L \\ -\ L\ L\ K \\ \hline L\ 8\ M \end{array} \Rightarrow$ **M = ?**

A) 4
B) 5
C) 6
D) 7
E) 8

5. $\begin{array}{r} K\ L \\ +\quad L\ K \\ \hline M\ M\ 0 \end{array} \Rightarrow$ **M = ?**

A) 1
B) 2
C) 3
D) 4
E) 5

6. $\begin{array}{r} K\ 0\ 0 \\ K\ K\ 0 \\ +\ K\ K\ K \\ \hline 6\ 4\ 2 \end{array} \qquad \begin{array}{r} L\ K\ K \\ L\ L\ K \\ +\ K\ L\ L \\ \hline M\ M\ 7 \end{array} \Rightarrow$ **M = ?**

A) 6
B) 7
C) 8
D) 9
E) 10

7.
$$\begin{array}{r} K \\ +\ 2 \\ \hline N \end{array} \quad \begin{array}{r} N \\ +\ 3 \\ \hline L \end{array} \quad \begin{array}{r} L \\ +\ 1 \\ \hline M \end{array} \Rightarrow \begin{array}{r} M\ K \\ -\ N\ L \\ \hline ?\ ? \end{array}$$

A) 35
B) 36
C) 37
D) 38
E) 39

8.
$$\begin{array}{r} A\ B\ C \\ +\ \ B\ C\ A \\ \hline 1\ 0\ 5\ 9 \end{array} \quad \begin{array}{r} A\ B\ C \\ -\ B\ C\ A \\ \hline 4\ 0\ 5 \end{array} \Rightarrow A \cdot B \cdot C = ?$$

A) 35
B) 37
C) 40
D) 42
E) 44

9.
$$\begin{array}{r} K\ 4 \\ +\ 1\ K \\ \hline M\ T \end{array} \Rightarrow T - M = ?$$

A) 1
B) 2
C) 3
D) 4
E) 5

10.
$$\begin{array}{r} K \\ K \\ +\ \ K \\ \hline L\ K \end{array} \quad \begin{array}{r} M \\ M \\ +\ \ M \\ \hline T\ L \end{array} \Rightarrow K + L + M + T = ?$$

A) 15
B) 16
C) 17
D) 18
E) 19

11.
$$\begin{array}{r} K\ L \\ +\ \ L\ K \\ \hline T\ K\ N \end{array} \Rightarrow L = ?$$

A) 11
B) 10
C) 9
D) 8
E) 7

12.
$$\begin{array}{r} A\ B\ C \\ -\ C\ B\ A \\ \hline K\ L\ 4 \end{array} \Rightarrow K + L = ?$$

A) 10
B) 11
C) 12
D) 13
E) 14

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	A	E	E	A	C	A	D	C	A	C	E

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} K \\ +\ 1 \\ \hline L \end{array} \quad \begin{array}{r} L \\ +\ 3 \\ \hline M \end{array} \quad \begin{array}{r} M \\ -\ L \\ \hline K \end{array} \Rightarrow K + L + M = ?$

A) 14

B) 13

C) 12

D) 11

E) 10

2. $\begin{array}{r} K \\ +\ \ L \\ \hline 1\ 3 \end{array} \quad \begin{array}{r} K \\ +\ \ M \\ \hline 1\ 1 \end{array} \quad \begin{array}{r} L \\ -\ M \\ \hline T \end{array} \Rightarrow T = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

3. $\begin{array}{r} K\ L\ M \\ L\ M\ K \\ +\ \ M\ K\ L \\ \hline 1\ 2\ 2\ 1 \end{array} \Rightarrow \max(M) = ?$

A) 9

B) 8

C) 7

D) 6

E) 5

4. $\begin{array}{r} K\ 6\ L\ 4 \\ -\ L\ 4\ L\ 9 \\ \hline P\ P\ K\ T \end{array} \Rightarrow T + L = ?$

A) 11

B) 12

C) 13

D) 14

E) 15

5. $\begin{array}{r} x\ x\ y \\ -\ y\ x\ x \\ \hline 3\ 9\ 6 \end{array} \Rightarrow \max(x + y) = ?$

A) 10

B) 11

C) 12

D) 13

E) 14

6. $\begin{array}{r} a\ b\ b \\ -\ \ \ a\ a \\ \hline 7\ 5\ 6 \end{array} \Rightarrow a + b = ?$

A) 10

B) 11

C) 12

D) 13

E) 14

7.
$$\begin{array}{r} abc \\ -\ \ ba \\ \hline 305 \end{array} \Rightarrow a + c = ?$$

A) 8
B) 9
C) 10
D) 11
E) 12

8.
$$\begin{array}{r} KLM \\ -\ LKM \\ \hline 540 \end{array} \qquad \begin{array}{r} KL \\ +\ \ LK \\ \hline 110 \end{array} \Rightarrow K = ?$$

A) 2
B) 5
C) 6
D) 7
E) 8

9.
$$\begin{array}{r} 5T3 \\ -\ 3V5 \\ \hline 1KL \end{array} \Rightarrow K - T + V + L = ?$$

A) 8
B) 12
C) 15
D) 17
E) 18

10.
$$\begin{array}{r} a \\ -\ b \\ \hline c \end{array} \qquad \begin{array}{r} b \\ -\ c \\ \hline d \end{array} \Rightarrow a = ?$$

A) 2c + d
B) c + 2d
C) c + d
D) 2b + d
E) b – d

11.
$$\begin{array}{r} K \\ L \\ +\ \ M \\ \hline 13 \end{array} \qquad \begin{array}{r} KML \\ LLK \\ +\ \ MKM \\ \hline ???? \end{array}$$

A) 1413
B) 1423
C) 1433
D) 1443
E) 1453

12.
$$\begin{array}{r} abc \\ +\ cab \\ \hline 354 \end{array} \Rightarrow a + b + c = ?$$

A) 6
B) 8
C) 9
D) 10
E) 11

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	B	C	E	C	D	E	D	A	D	A

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} a\,0\,b \\ +\; b\,0\,a \\ \hline a\,0\,a\,0 \end{array} \Rightarrow$ **b = ?**

A) 1
B) 3
C) 5
D) 7
E) 9

2. $10 \cdot L + 2 \cdot K = 34$
$20 \cdot K + L = 43 \Rightarrow$ **KL = ?**

A) 34
B) 32
C) 43
D) 23
E) 36

3. $\begin{array}{r} K\,L\,M\,N\,R \\ +\; R\,N\,M\,L\,K \\ \hline a\,\mathbf{?}\,c\,b\,a \end{array}$ $\quad 2 \cdot M = c$

A) a
B) b
C) c
D) K
E) M

4. $\begin{array}{r} K\,L\,M \\ M\,K\,L \\ +\; L\,M\,K \\ \hline 1\,9\,9\,K \end{array} \Rightarrow$ **K + L + M = ?**

A) 15
B) 16
C) 18
D) 20
E) 22

5. $\begin{array}{r} a\,b \\ +\; b\,a \\ \hline K\,K\,0 \end{array} \Rightarrow$ **a + b = ?**

A) 1
B) 2
C) 5
D) 10
E) 11

6. $\begin{array}{r} a\,b\,d \\ +\; b\,a\,b \\ \hline L\,L\,L\,0 \end{array} \Rightarrow$ **L = ?**

A) 1
B) 2
C) 3
D) 4
E) 5

7.
$$\begin{array}{r} K\ L\ M \\ M\ K\ L \\ +\quad L\ M\ K \\ \hline N\ \bullet\ \bullet\ \bullet \end{array} \Rightarrow \textbf{max(N) = ?}$$

A) 0

B) 1

C) 2

D) 3

E) 4

8.
$$\begin{array}{r} t\ ü\ r\ k\ i\ y\ e \\ +\ a\ m\ e\ r\ i\ k\ a \\ \hline \bullet\ \bullet\ \bullet\ \bullet\ 9\ \bullet\ \bullet \end{array} \Rightarrow \textbf{i = ?}$$

A) 3

B) 4

C) 5

D) 6

E) 7

9.
$$\begin{array}{r} K \\ +\ L \\ \hline M \end{array} \qquad \begin{array}{r} M \\ +\ N \\ \hline T \end{array} \qquad \begin{array}{r} K\ T \\ +\ L\ T \\ \hline 8\ 8 \end{array} \Rightarrow \textbf{L + T + K = ?}$$

A) 12

B) 14

C) 16

D) 18

E) 20

10.
$$\begin{array}{r} 3 \\ +\ K \\ \hline L \end{array} \qquad \begin{array}{r} L \\ +\ 4 \\ \hline N \end{array} \qquad \begin{array}{r} K \\ +\ N \\ \hline M \end{array} \Rightarrow \textbf{K + L + M = ?}$$

A) 14

B) 15

C) 16

D) 17

E) 18

11.
$$\begin{array}{r} M\ N\ P \\ +\quad R\ S\ T \\ \hline 1\ 2\ 0\ 2 \end{array} \Rightarrow \textbf{N + S = ?}$$

A) 6

B) 8

C) 9

D) 10

E) 15

12.
$$\begin{array}{r} A\ B \\ C\ A \\ +\quad B\ C \\ \hline A\ B\ C \end{array} \Rightarrow \textbf{A + C = ?}$$

A) 1

B) 8

C) 9

D) 10

E) 11

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
E	D	B	C	D	A	C	B	C	A	C	C

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} AA \\ +\ BB \\ \hline CC \end{array}$ $\quad \begin{array}{r} CC \\ +\ DD \\ \hline EE \end{array} \Rightarrow$ **min(E) = ?**

A) 2

B) 3

C) 6

D) 7

E) 9

2. $\begin{array}{r} K \\ +\ L \\ \hline M \end{array}$ $\quad \begin{array}{r} M \\ +\ N \\ \hline KL \end{array}$ $\quad \begin{array}{r} M \\ +\ L \\ \hline 7 \end{array} \Rightarrow$ **M = ?**

A) 2

B) 3

C) 4

D) 5

E) 7

3. $\begin{array}{r} KL \\ +\ MN \\ \hline L7 \end{array}$ $\quad \begin{array}{r} L \\ +\ N \\ \hline KM \end{array} \Rightarrow$ **N = ?**

A) 5

B) 6

C) 7

D) 8

E) 9

4. $\begin{array}{r} x \\ +\ \spadesuit \\ \hline y \end{array}$ $\quad \begin{array}{r} y \\ +\ z \\ \hline x\spadesuit \end{array} \Rightarrow$ **z = ?**

A) 3

B) 4

C) 5

D) 8

E) 9

5. $\begin{array}{r} P \\ +\ T \\ \hline N \end{array}$ $\quad \begin{array}{r} N \\ +\ M \\ \hline Z \end{array}$ $\quad \begin{array}{r} PN \\ +\ TM \\ \hline 69 \end{array} \Rightarrow$ **M = ?**

A) 2

B) 3

C) 4

D) 5

E) 6

6. $\begin{array}{r} LK \\ MK \\ NK \\ K \\ K \\ +\ K \\ \hline 1L0 \end{array}$ $\quad \begin{array}{l} M + N = T \\ L + 1 = T \Rightarrow \textbf{L = ?} \end{array}$

A) 4

B) 5

C) 6

D) 7

E) 8

7.

$$\begin{array}{r} A\;B\;C \\ -\;2\;5\;A \\ \hline C\;2\;B \end{array} \qquad \begin{array}{r} B \\ -\;5 \\ \hline T \end{array} \Rightarrow \mathbf{B \cdot T = ?}$$

A) 8

B) 12

C) 16

D) 20

E) 24

8.

$$\begin{array}{r} A\;B\;B \\ -\quad C\;C \\ \hline B\;7\;8 \end{array} \Rightarrow \mathbf{C - A = ?}$$

A) 0

B) 1

C) 3

D) 5

E) 9

9.

$$\begin{array}{r} A\;A\;B \\ -\quad B\;A \\ \hline \cdot\;3\;A \end{array} \Rightarrow \mathbf{AB = ?}$$

A) 74

B) 62

C) 47

D) 36

E) 26

10.

$$\begin{array}{r} A\;A\;A \\ -\;B\;B\;B \\ \hline D\;D\;D \end{array} \qquad \begin{array}{r} C\;C\;C \\ -\;A\;A\;A \\ \hline B\;B\;B \end{array} \Rightarrow \mathbf{C - 2B = ?}$$

A) A

B) B

C) C

D) D

E) B + 2

11.

$$\begin{array}{r} C\;A\;B\;C \\ -\;4\;A\;C\;B \\ \hline D\;9\;S\;S \end{array} \Rightarrow \mathbf{S = ?}$$

A) 1

B) 3

C) 5

D) 7

E) 9

12.

$$\begin{array}{r} A\;5\;B \\ -\;B\;B\;4 \\ \hline 6\;B\;A \end{array} \Rightarrow \mathbf{B = ?}$$

A) 1

B) 2

C) 3

D) 5

E) 7

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1	2	3	4	5	6	7	8	9	10	11	12
C	C	D	E	B	C	E	B	B	D	C	B

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} A\ B\ 4 \\ -\ B\ 2\ C \\ \hline B\ 0\ A \end{array} \Rightarrow \mathbf{C = ?}$$

A) 1
B) 2
C) 4
D) 6
E) 8

2.
$$\begin{array}{r} A\ B\ C \\ -\quad A\ 4 \\ \hline C\ 8\ 0 \end{array} \Rightarrow \mathbf{B = ?}$$

A) 1
B) 2
C) 3
D) 5
E) 9

3.
$$\begin{array}{r} A\ 3\ C \\ -\ 3\ 3\ 3 \\ \hline P\ T\ T \end{array} \qquad \begin{array}{r} T \\ -\ P \\ \hline 5 \end{array} \Rightarrow \mathbf{A = ?}$$

A) 1
B) 3
C) 5
D) 7
E) 8

4.
$$\begin{array}{r} K\ L\ K \\ -\quad K\ L \\ \hline 8\ 7\ 3 \end{array} \Rightarrow \mathbf{K + L = ?}$$

A) 10
B) 11
C) 15
D) 21
E) 24

5.
$$\begin{array}{r} 1\ K \\ -\quad L \\ \hline M \end{array} \qquad \begin{array}{r} L \\ -\ K \\ \hline 4 \end{array} \Rightarrow \mathbf{M = ?}$$

A) 1
B) 4
C) 6
D) 7
E) 9

6.
$$\begin{array}{r} K\ L \\ -\quad M \\ \hline 1\ 9 \end{array} \qquad \begin{array}{r} M \\ -\ K \\ \hline 6 \end{array} \Rightarrow \mathbf{L = ?}$$

A) 1
B) 6
C) 7
D) 8
E) 9

7. $\begin{array}{r} KL \\ -\ MK \\ \hline 8 \end{array}$ $\begin{array}{r} 6 \\ -\ K \\ \hline L \end{array}$ $\Rightarrow$ **M = ?**

A) 1

B) 2

C) 3

D) 4

E) 6

8. $\begin{array}{r} K\ L\ M\ N \\ -\ N\ M\ L\ K \\ \hline 3\ 0\ 8\ 7 \end{array}$ $\Rightarrow$ $\begin{array}{r} \mathbf{L} \\ -\ \mathbf{M} \\ \hline \mathbf{?} \end{array}$

A) 1

B) 2

C) 3

D) 7

E) 8

9. $\begin{array}{r} KL \\ -\ 1M \\ \hline 8 \end{array}$ $\Rightarrow$ **max(L) = ?**

A) 9

B) 8

C) 7

D) 6

E) 5

10. $\begin{array}{r} A \\ -\ B \\ \hline 3 \end{array}$ $\begin{array}{r} B \\ -\ 3 \\ \hline C \end{array}$ $\begin{array}{r} A \\ -\ C \\ \hline 6 \end{array}$ $\Rightarrow$ **C = ?**

A) 3

B) 4

C) 5

D) 6

E) 7

11. $\begin{array}{r} KL \\ +\ ML \\ \hline 6T \end{array}$ $\begin{array}{r} ML \\ -\ KL \\ \hline 10 \end{array}$ $\Rightarrow$ **M = ?**

A) 1

B) 3

C) 4

D) 6

E) 7

12. $\begin{array}{r} K \\ +\ L \\ \hline 5 \end{array}$ $\begin{array}{r} L \\ -\ K \\ \hline 1 \end{array}$ $\Rightarrow$ **K = ?**

A) 1

B) 2

C) 3

D) 5

E) 7

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1	2	3	4	5	6	7	8	9	10	11	12
E	C	E	C	C	C	C	A	C	A	B	B

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} A\ B \\ +\ K\ L \\ \hline 3\ 8 \end{array} \qquad \begin{array}{r} A\ B \\ -\ K\ L \\ \hline 1\ 2 \end{array} \Rightarrow \mathbf{A \cdot B = ?}$$

A) 10

B) 8

C) 6

D) 5

E) 4

2.

$$\begin{array}{r} K\ T\ L \\ +\ T\ V\ K \\ \hline 7\ T\ T \end{array} \Rightarrow \mathbf{max(V + T) = ?}$$

A) 10

B) 11

C) 12

D) 13

E) 14

3.

$$\begin{array}{r} 2\ K\ 5 \\ -\ \ M\ 2 \\ \hline K\ 8\ M \end{array} \qquad \begin{array}{r} K \\ L \\ +\ \ M \\ \hline 1\ 3 \end{array} \Rightarrow \mathbf{L = ?}$$

A) 1

B) 5

C) 7

D) 8

E) 9

4.

$$\begin{array}{r} K\ L \\ +\ M\ L \\ \hline L\ M \end{array} ,\ 4 < L \Rightarrow \mathbf{2K + M = ?}$$

A) 7

B) 8

C) 9

D) 10

E) 11

5.

$$\begin{array}{r} K\ L\ M \\ M\ K\ L \\ +\ \ L\ M\ K \\ \hline 1\ L\ L\ 5 \end{array} \Rightarrow \mathbf{K + M = ?}$$

A) 6

B) 7

C) 9

D) 8

E) 5

6.

$$\begin{array}{r} K \\ +\ S \\ \hline L \end{array} \qquad \begin{array}{r} L \\ +\ 3 \\ \hline M \end{array} \Rightarrow \mathbf{max(M) - min(M) = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

7.
$$\begin{array}{r} K\ K \\ L\ L \\ +\ \ M\ M \\ \hline 1\ 4\ 3 \end{array} \qquad \begin{array}{r} K \\ -\ M \\ \hline M \end{array} \qquad \begin{array}{r} M \\ M \\ M \\ +\ L \\ \hline ? \end{array}$$

A) 12

B) 13

C) 14

D) 15

E) 16

8.
$$\begin{array}{r} K\ 4\ M\ 3 \\ -\ 5\ L\ K\ M \\ \hline L\ L\ 1\ 4 \end{array} \Rightarrow \mathbf{K + L + M = ?}$$

A) 17

B) 18

C) 19

D) 20

E) 21

9.
$$\begin{array}{r} A\ B\ C \\ -\ C\ B\ A \\ \hline \cdot\ x\ \cdot \end{array} \qquad \begin{array}{r} A\ x\ B \\ -\ B\ C\ x \\ \hline 1\ 6\ 4 \end{array} \Rightarrow \mathbf{A + B + C = ?}$$

A) 5

B) 7

C) 9

D) 11

E) 13

10.
$$\begin{array}{r} K\ K\ K \\ -\ \ \ L\ L \\ \hline 6\ L\ 9 \end{array} \Rightarrow \mathbf{K + L = ?}$$

A) 12

B) 15

C) 17

D) 19

E) 22

11.
$$\begin{array}{r} K\ K \\ L\ 0 \\ +\ L\ M \\ \hline 5\ 0 \end{array} \qquad 4 \cdot K = M \quad \Rightarrow \mathbf{K + L + M = ?}$$

A) 8

B) 9

C) 10

D) 11

E) 12

12.
$$\begin{array}{r} K\ L \\ L\ M \\ +\ \ M\ K \\ \hline 1\ 9\ 8 \end{array} \qquad \begin{array}{r} L \\ +\ \ K \\ \hline 1\ 4 \end{array} \Rightarrow \mathbf{M = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

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1	2	3	4	5	6	7	8	9	10	11	12
A	E	E	B	C	C	B	B	C	B	D	D

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

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1.
$$\begin{array}{r} A\ B\ C\ 4 \\ +\quad 1\ A\ 8 \\ \hline A\ 3\ 1\ A \end{array} \Rightarrow B + C = ?$$

A) 13
B) 12
C) 11
D) 10
E) 9

2.
$$\begin{array}{r} K \\ +\ L \\ \hline x \end{array} \qquad \begin{array}{r} L \\ +\ P \\ \hline y \end{array} \qquad \begin{array}{r} x \\ -\ P \\ \hline 2 \end{array} \qquad \begin{array}{r} y \\ -\ K \\ \hline 4 \end{array} \Rightarrow L = ?$$

A) 1
B) 2
C) 3
D) 4
E) 5

3.
$$\begin{array}{r} K\ K\ K\ K \\ L\ L\ L \\ N\ N \\ +\quad T \\ \hline 1\ 3\ 7\ 0 \end{array} \Rightarrow K = ?$$

A) 1
B) 2
C) 3
D) 4
E) 5

4.
$$\begin{array}{r} K\ L \\ K\ L \\ K\ L \\ +\ K\ L \\ \hline 1\ N\ N \end{array} \qquad \begin{array}{r} L \\ x\quad L \\ \hline K\ L \end{array} \Rightarrow K + L = ?$$

A) 4
B) 7
C) 9
D) 10
E) 13

5.
$$\begin{array}{r} K\ 0 \\ 1\ M \\ +\ K\ M \\ \hline T\ K\ 0 \end{array} \qquad \begin{array}{r} K \\ x\quad K \\ \hline L\ P \end{array} \Rightarrow L + P = ?$$

A) 13
B) 10
C) 9
D) 7
E) 4

6.
$$\begin{array}{r} K\ L \\ +\ L\ K \\ \hline 1\ 2\ 1 \end{array} \qquad \begin{array}{r} K \\ -\ 1 \\ \hline L \end{array} \qquad \begin{array}{r} L \\ -\ 1 \\ \hline M \end{array} \Rightarrow L + M = ?$$

A) 6
B) 7
C) 8
D) 9
E) 10

7.
$$\begin{array}{r} K\ L\ M\ R \\ -\quad L\ M\ K \\ \hline 2\ 0\ 0\ 2 \end{array} \Rightarrow K + R = ?$$

A) 14

B) 12

C) 10

D) 8

E) 6

8.
$$\begin{array}{r} K\ L\ M \\ -\quad M\ L \\ \hline 6\ 6\ 3 \end{array} \Rightarrow K + L - M = ?$$

A) 9

B) 10

C) 11

D) 12

E) 13

9.
$$\begin{array}{r} K \\ -\ N \\ \hline T \end{array} \qquad \begin{array}{r} L \\ -\ P \\ \hline R \end{array} \Rightarrow \min(KLPN - NPLK) = ?$$

A) 1096

B) 1179

C) 2097

D) 2196

E) 2376

10.
$$\begin{array}{r} A\ B \\ B\ B \\ B\ A \\ +\quad A\ A \\ \hline 3\ 7\ 4 \end{array} \Rightarrow A + B = ?$$

A) 11

B) 13

C) 15

D) 17

E) 19

11.
$$\begin{array}{r} K\ L\ M \\ +\quad M\ L\ K \\ \hline 1\ 1\ 3\ 1 \end{array} \qquad \begin{array}{r} K\ L\ M \\ -\ M\ L\ K \\ \hline x\ y\ K \end{array} \Rightarrow x + y = ?$$

A) 1

B) 5

C) 7

D) 9

E) 11

12.
$$\begin{array}{r} K\ L\ M \\ +\ M\ K\ M \\ \hline 7\ 8\ 4 \end{array} \Rightarrow L = ?$$

A) 2

B) 3

C) 4

D) 5

E) 6

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1	2	3	4	5	6	7	8	9	10	11	12
E	C	A	C	B	D	E	E	B	D	E	B

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

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1.

$$\begin{array}{r} A\ 8\ B \\ \times \quad A\ B \\ \hline C\ C\ 3\ 6 \\ +\ 5\ D\ E\ \ \\ \hline D\ 8\ C\ 6 \end{array} \Rightarrow D = ?$$

A) 2
B) 3
C) 4
D) 6
E) 8

2.

$$\begin{array}{r} A\ B \\ \times \ A\ B \\ \hline 7\ 5 \\ +\ 1\ 5\ \ \\ \hline 2\ 2\ 5 \end{array} \Rightarrow A + B = ?$$

A) 3
B) 5
C) 6
D) 7
E) 9

3.

$$\begin{array}{r} 3\ A\ B \\ \times \quad C\ A \\ \hline 6\ 4\ D \\ +\ 1\ 9\ 4\ 4\ \ \\ \hline 2\ 0\ 0\ D\ D \end{array} \Rightarrow C = ?$$

A) 2
B) 3
C) 6
D) 8
E) 9

4.

$$\begin{array}{r} A\ B \\ \times \quad B \\ \hline 1\ A\ B \end{array} \qquad \begin{array}{r} A \\ \times\ B \\ \hline 1\ 0 \end{array} \Rightarrow A + B = ?$$

A) 4
B) 5
C) 6
D) 7
E) 9

5.

$$\begin{array}{r} A\ B \\ \times \quad B \\ \hline 2\ 1\ B \end{array} \Rightarrow A = ?$$

A) 1
B) 2
C) 3
D) 5
E) 7

6.

$$\begin{array}{r} A\ 3\ C \\ \times \quad A\ C \\ \hline 1\ 1\ B\ C \\ +\ 4\ B\ 0\ \ \\ \hline 5\ 8\ B\ 5 \end{array} \Rightarrow A = ?$$

A) 1
B) 2
C) 3
D) 5
E) 7

7.

$$\begin{array}{r} A\ B\ C \\ \times \quad D\ 3 \\ \hline 1\ 7\ 4\ 9 \\ +\ 4\ 0\ B\ F\ \ \\ \hline 4\ 2\ 5\ 5\ 9 \end{array} \Rightarrow D = ?$$

A) 3

B) 5

C) 7

D) 8

E) 9

8.

$$\begin{array}{r} D\ B\ C \\ \times \quad D\ 8 \\ \hline 4\ 1\ 9\ B \\ +\ B\ 6\ B\ 0\ \ \\ \hline 3\ 0\ 3\ 9\ 2 \end{array} \Rightarrow D = ?$$

A) 1

B) 2

C) 3

D) 5

E) 6

9.

$$\begin{array}{r} K\ L\ M \\ \times \quad K\ N \\ \hline 1\ 4\ 6\ 7 \\ +\ K\ L\ 3\ \ \\ \hline M\ 0\ N\ 7 \end{array} \Rightarrow L = ?$$

A) 1

B) 3

C) 5

D) 6

E) 9

10.

$$\begin{array}{r} K\ L \\ \times \quad L \\ \hline M\ 2\ L \end{array} \qquad \begin{array}{r} M\ K \\ \times \quad K \\ \hline N\ P\ K \end{array} \Rightarrow K = ?$$

A) 2

B) 3

C) 5

D) 6

E) 9

11.

$$\begin{array}{r} K\ K \\ \times \quad K \\ \hline L\ L \end{array} \qquad \begin{array}{r} K\ K \\ \times \quad L \\ \hline N\ L\ M \end{array} \Rightarrow K = ?$$

A) 1

B) 2

C) 3

D) 9

E) 6

12.

$$\begin{array}{r} K\ L\ M \\ \times \quad 3\ M \\ \hline 4\ 1\ 0\ 9 \\ +\ 1\ M\ 6\ N\ \ \\ \hline 2\ N\ 7\ 1\ 9 \end{array} \Rightarrow KLM = ?$$

A) 357

B) 537

C) 578

D) 587

E) 783

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1	2	3	4	5	6	7	8	9	10	11	12
D	C	C	D	C	B	C	D	D	D	C	D

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In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} K\,5 \\ \times \quad K\,L \\ \hline \cdot\,\cdot\,5 \\ +\,1\,0\,5 \\ \hline \cdot\,\cdot\,\cdot\,\cdot \end{array} \Rightarrow \max(K + L) = ?$$

A) 9 B) 10 C) 11 D) 12 E) 13

2.
$$\begin{array}{r} K\,K\,2 \\ \times \quad 5\,L \\ \hline \cdot\,0\,\cdot\,8 \\ +\,\cdot\,6\,\cdot \\ \hline \cdot\,6\,0\,8 \end{array} \Rightarrow K \cdot L = ?$$

A) 6 B) 9 C) 10 D) 12 E) 18

3.
$$\begin{array}{r} K\,K \\ \times \quad K\,L \\ \hline 2\,2\,0 \\ +\,\cdot\,\cdot\,\cdot \\ \hline 1\,x\,y\,0 \end{array} \Rightarrow x + y = ?$$

A) 12 B) 13 C) 14 D) 15 E) 17

4.
$$\begin{array}{r} K\,2 \\ \times \quad L\,K \\ \hline \cdot\,\cdot\,\cdot \\ +\,K\,2 \\ \hline ? \end{array}$$

A) 1024 B) 1144 C) 1224 D) 1234 E) 1244

5.
$$\begin{array}{r} K \\ \times\ K \\ \hline L \end{array} \qquad \begin{array}{r} L \\ \times \quad L \\ \hline M\,N \end{array} \Rightarrow \max(L) + \min(L) = ?$$

A) 9 B) 10 C) 11 D) 12 E) 13

6.
$$\begin{array}{r} K\,L\,M \\ \times \quad\quad x \\ \hline 4\,9\,3\,5 \end{array} \quad \begin{array}{r} K\,L\,M \\ \times \quad\quad y \\ \hline 5\,8\,2\,2 \end{array} \quad \begin{array}{r} K\,L\,M \\ \times \quad\quad z \\ \hline 2\,9\,6\,1 \end{array} \Rightarrow \begin{array}{r} K\,L\,M \\ \times\ x\,z\,y\,x \\ \hline ? \end{array}$$

A) 359255 B) 357254 C) 356254 D) 352255 E) 352245

7.
$$\begin{array}{r} K\ L \\ \times\ \ M\ N \\ \hline \bullet\ \bullet\ \bullet \\ +\ \bullet\ \bullet\ \ \\ \hline 1\ 0\ 5\ 8 \end{array} \qquad \begin{array}{l} 2 \cdot K = M \\ 2 \cdot L = N \\ \Rightarrow \mathbf{KL = ?} \end{array}$$

A) 22 B) 23 C) 24 D) 25 E) 26

8.
$$\begin{array}{r} K\ K \\ \times\ \ L\ L \\ \hline \bullet\ \bullet\ 0 \\ +\ \bullet\ \bullet\ 0\ \ \\ \hline 3\ \bullet\ \bullet\ \bullet \end{array} \qquad \begin{array}{l} L = K + 1 \\ \Rightarrow \mathbf{K \cdot L = ?} \end{array}$$

A) 20 B) 25 C) 30 D) 35 E) 40

9.
$$\begin{array}{r} 1\ 2 \\ \times\ \ K \\ \hline K\ L \end{array} \qquad \begin{array}{r} K\ L \\ \times\ \ y \\ \hline 7\ 2 \end{array} \qquad \begin{array}{r} 7\ 2 \\ \times\ \ z \\ \hline K\ L\ 0 \end{array} \quad \Rightarrow \mathbf{K + L + y + z = ?}$$

A) 12 B) 14 C) 16 D) 18 E) 20

10.
$$\begin{array}{r} K\ 4 \\ \times\ \ 7\ L \\ \hline 7\ \bullet\ 2 \\ +\ 6\ \bullet\ 8\ \ \\ \hline \mathbf{?} \end{array}$$

A) 7282 B) 7292 C) 7308 D) 7316 E) 7332

11.
$$\begin{array}{r} K\ L \\ \times\ \ L\ M \\ \hline 1\ 8\ M \\ +\ K\ L\ \ \\ \hline y\ x\ M \end{array} \quad \Rightarrow \mathbf{y = ?}$$

A) 1 B) 2 C) 3 D) 4 E) 5

12.
$$\begin{array}{r} \blacksquare\ \blacksquare \\ \times\ \triangle\ \triangle \\ \hline \diamond\ \diamond \end{array} \qquad \begin{array}{r} \bigstar\ \bigstar \\ \times\ \triangle\ \triangle \\ \hline \blacktriangle\ \blacktriangle \end{array} \quad \Rightarrow \quad \mathbf{\diamond + \blacktriangle = ?}$$

A) 11 B) 12 C) 13 D) 14 E) 15

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	B	E	C	E	A	B	C	C	E	D	D

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1.

$$\begin{array}{rrrr|l} & K & 5 & 6 & K\,L \\ \cline{5-5} - & K & L & & L\,K \\ \cline{1-4} & 0 & M & 6 & \\ - & & M & K & \\ \cline{1-4} & & & M & \end{array} \Rightarrow \mathbf{M = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

2.

$$\begin{array}{rrrr|l} & A & B & C & B\,C \\ \cline{5-5} - & A & C & 6 & 3 \\ \cline{1-4} & 0 & 1 & 6 & \end{array} \Rightarrow \mathbf{B = ?}$$

A) 2

B) 3

C) 4

D) 8

E) 9

3.

$$\begin{array}{rrrrrrr|l} & K & L & K & L & 0 & 0 & K\,L \\ \cline{8-8} - & & & & & & & T \\ \cline{1-7} & & & & & & 0 & \end{array} \quad \begin{array}{l} T \geq 10 \\ \Rightarrow \mathbf{T = ?} \end{array}$$

A) 101

B) 1001

C) 10001

D) 10100

E) 101100

4.

$$\begin{array}{rrrrr|l} & A & B & A & B & A\,B \\ \cline{6-6} - & & & & & C\,0\,C \\ \cline{1-5} \end{array} \Rightarrow \mathbf{C = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

5.

$$\begin{array}{rrrrrrr|l} & K & 0 & K & K & 0 & L & K \\ \cline{8-8} - & & & & & & & M \\ \cline{1-7} & & & & & & 4 & \end{array} \quad \begin{array}{l} M \geq 10 \\ \Rightarrow \mathbf{M + L = ?} \end{array}$$

A) 1104

B) 10104

C) 11105

D) 101104

E) 111004

6.

$$\begin{array}{rrrr|l} & K & L & M & L\,M \\ \cline{5-5} - & L & M & & T\,5 \\ \cline{1-4} & M & M & M & \\ - & M & T & 0 & \\ \cline{1-4} & & T & M & \end{array} \Rightarrow \mathbf{K = ?}$$

A) 3

B) 4

C) 6

D) 8

E) 9

7.

$$\begin{array}{r|l} KLML & MK \\ \cline{2-2} -KL & K0M \\ \cline{1-1} 00ML & \\ -M2 & \\ \cline{1-1} 2 & \end{array} \Rightarrow \mathbf{K = ?}$$

A) 1

B) 2

C) 3

D) 5

E) 6

8.

$$\begin{array}{r|l} DEB & BBB \\ \cline{2-2} -DDD & B \\ \cline{1-1} T & \end{array} \Rightarrow \mathbf{E = ?}$$

A) 1

B) 2

C) 5

D) 6

E) 8

9.

$$\begin{array}{r|l} ABC & B \\ \cline{2-2} -B & 1AC \\ \cline{1-1} 1B & \\ -1D & \\ \cline{1-1} 1C & \\ -1C & \\ \cline{1-1} 0 & \end{array} \qquad \begin{array}{r|l} 5 & B \\ \cline{2-2} -B & 1 \\ \cline{1-1} 2 & \end{array} \Rightarrow \mathbf{A + B + C = ?}$$

A) 12

B) 13

C) 14

D) 15

E) 16

10.

$$\begin{array}{r|l} AB & BA \\ \cline{2-2} -BA & 1 \\ \cline{1-1} A & \end{array} \qquad \begin{array}{r|l} A & B \\ \cline{2-2} -B & 1 \\ \cline{1-1} 1 & \end{array} \Rightarrow \mathbf{AB = ?}$$

A) 28

B) 43

C) 54

D) 67

E) 98

11.

$$\begin{array}{r|l} KLM & MLK \\ \cline{2-2} -3LK & 1 \\ \cline{1-1} PP & \end{array} \Rightarrow \mathbf{P = ?}$$

A) 5

B) 6

C) 7

D) 8

E) 9

12.

$$\begin{array}{r|l} A & B \\ \cline{2-2} -B & 1 \\ \cline{1-1} 2 & \end{array} \qquad \begin{array}{r|l} B & C \\ \cline{2-2} -C & 1 \\ \cline{1-1} 2 & \end{array} \quad A + C = 14 \Rightarrow \mathbf{B = ?}$$

A) 4

B) 5

C) 6

D) 7

E) 8

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	D	A	D	C	B	C	A	E	E	D

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1.

$$\begin{array}{rrr|l} K & L & M & 1\,2 \\ -K & M & & \overline{L\,2} \\ \hline 0 & 2 & M & \\ - & 2 & 4 & \\ \hline & 0 & 2 & \end{array} \quad \Rightarrow \mathbf{K + L + M = ?}$$

A) 20 B) 21 C) 22 D) 23 E) 24

2.

$$\begin{array}{rrr|l} K & L & M & 2\,3 \\ -4 & 6 & & \overline{2\,9} \\ \hline 2 & 2 & M & \\ -\bullet & \bullet & \bullet & \\ \hline & 1 & \bullet & \end{array} \quad \Rightarrow \mathbf{max(M) = ?}$$

A) 4 B) 5 C) 6 D) 7 E) 8

3.

$$\begin{array}{r|l} 3\,5\,3\,5\,a\,b & 3\,5 \\ \bullet & \overline{1\,0\,1\,0\,0} \\ \bullet & \\ \bullet & \end{array} \quad \Rightarrow \mathbf{max(a + b) = ?}$$

A) 6 B) 7 C) 8 D) 9 E) 10

4. $\frac{K}{L} = M \quad \frac{N}{L} = T \Rightarrow \mathbf{K + N = ?}$

A) 6 B) 8 C) 10 D) 12 E) 14

5.

$$\begin{array}{rrrr|l} K & L & 0 & 6 & 1\,6 \\ -\bullet & \bullet & & & \overline{M\,\bullet\,\bullet} \\ \hline 0 & 0 & \bullet & \bullet & \end{array} \quad \Rightarrow \mathbf{KL = ?}$$

A) 32 B) 48 C) 64 D) 80 E) 96

6. $x \geq 10 \quad y \geq 10 \quad z \geq 10$

$$\begin{array}{r|l} x & 1\,2 \\ - & \\ \hline 0 & \end{array} \qquad \begin{array}{r|l} y & 1\,2 \\ - & \\ \hline 0 & \end{array} \qquad \begin{array}{r|l} z & 1\,2 \\ - & \\ \hline 0 & \end{array} \quad \Rightarrow \mathbf{(x + y + z) \neq ?}$$

A) 36 B) 52 C) 60 D) 96 E) 120

7.
$$\begin{array}{r|l} KLM & NT \\ \hline -70 & 56 \\ \hline 8M & \\ -84 & \\ \hline 2 & \end{array} \quad \Rightarrow (K + L + M) - (N + T) = ?$$

A) 12 B) 13 C) 14 D) 15 E) 16

8.
$$\begin{array}{r|l} KLM & L \\ \hline -K & 2TT \\ \hline 0L & \\ -L & \\ \hline 0M & \\ -L & \\ \hline 3 & \end{array} \quad L > 2 \quad \Rightarrow K + L + M + T = ?$$

A) 13 B) 16 C) 17 D) 18 E) 20

9. $■ \cdot 3 = □$

$$\begin{array}{l|l} ■\,□ & ■ \\ \hline \cdot & x\ y \\ \cdot & \end{array} \quad \Rightarrow x + y = ?$$

A) 3 B) 4 C) 5 D) 6 E) 7

10. $\dfrac{\triangle}{4} = \dfrac{□}{2} = ♣$

$$\begin{array}{l|l} ♣\,□\,\triangle & \triangle \\ \hline \cdot & ? \\ \cdot & \\ \cdot & \end{array}$$

A) 26 B) 28 C) 31 D) 32 E) 33

11.
$$\begin{array}{r|l} \cdot\cdot\cdot\cdot\,6 & 22 \\ \hline - & \\ \hline x & \end{array} \quad 3 < x < 10 \quad \Rightarrow \max(x) + \min(x) = ?$$

A) 8 B) 9 C) 10 D) 11 E) 12

12.
$$\begin{array}{r|l} \cdot\cdot\cdot\cdot\,00 & 24 \\ \hline - & \\ \hline x & \end{array} \quad x > 17 \quad \Rightarrow x = ?$$

A) 18 B) 20 C) 21 D) 22 E) 23

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	C	D	E	B	B	E	E	B	C	E	B

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In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r|l} A & B \\ \cline{2-2} -\ D & C \\ \hline 1 & \end{array} \qquad \begin{array}{r} A \\ +\ \ D \\ \hline 1\ 7 \end{array} \Rightarrow \mathbf{A + B + C + D = ?}$$

A) 17

B) 19

C) 21

D) 23

E) 25

2.

$$\begin{array}{r} K\ K \\ \times\ K\ K \\ \hline \cdot\ \cdot \\ +\ \cdot\ \cdot\ \ \\ \hline L\ M\ L \end{array} \Rightarrow \mathbf{K + L + M = ?}$$

A) 6

B) 8

C) 10

D) 12

E) 14

3.

$$\begin{array}{r|l} A\ B & B\ A \\ \cline{2-2} -\ B\ A & \ \ \cdot \\ \hline C & \end{array} \Rightarrow \mathbf{C = ?}$$

A) 0

B) 1

C) 3

D) 7

E) 9

4.

$$\begin{array}{r} A \\ \times\ \ A \\ \hline 1\ B \end{array} \qquad \begin{array}{r} B \\ \times\ \ B \\ \hline C\ B \end{array} \Rightarrow \mathbf{C = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

5.

$$\begin{array}{r} A \\ \times\ \ A\ A \\ \hline C\ B\ A \end{array} \qquad \frac{B}{C} = C \quad \Rightarrow \mathbf{A + B + C = ?}$$

A) 12

B) 14

C) 15

D) 18

E) 19

6.

$$\begin{array}{r|l} □\ □\ □ & ○\ ○\ ○ \\ \cline{2-2} -\ △\ △\ △ & \ \ \ ○ \\ \hline ⬡\ ⬡\ ⬡ & \end{array} \qquad \begin{array}{l} □ - △ = 1 \\ □ + ○ = \mathbf{?} \end{array}$$

A) 3

B) 6

C) 7

D) 9

E) 12

7. $\begin{array}{r} K\ L \\ +\quad M\ L \\ \hline K\ K\ 0 \end{array} \Rightarrow \mathbf{M = ?}$

A) 3

B) 5

C) 6

D) 8

E) 9

8. $\begin{array}{r} K\ L \\ +\ M\ N \\ \hline 6\ 6 \end{array} \qquad \begin{array}{r} K\ L \\ -\ M\ N \\ \hline 1\ 6 \end{array} \Rightarrow \mathbf{K + L = ?}$

A) 4

B) 5

C) 6

D) 7

E) 8

9. $\begin{array}{r} 2\ A \\ x\quad\ A \\ \hline 1\ 2\ A \end{array} \qquad \begin{array}{r} 2\ B \\ x\quad\ B \\ \hline 1\ A\ B \end{array} \Rightarrow \mathbf{AB = ?}$

A) 10

B) 15

C) 25

D) 56

E) 65

10. $\begin{array}{r} \blacktriangle\ \blacktriangle\ \blacktriangle \\ +\ \square\ \square\ \square \\ \hline \bigcirc\ \bigcirc\ \bigcirc \end{array} \qquad \begin{array}{r|l} \bigcirc & \blacktriangle \\ \cline{2-2} -\ \bullet & \blacktriangle \\ \cline{1-1} 0 & \end{array} \qquad \begin{array}{r|l} \square & \blacktriangle \\ \cline{2-2} -\ \bullet & \text{⬡} \\ \cline{1-1} 0 & \end{array} \Rightarrow \begin{array}{r} \blacktriangle \\ -\ \text{⬡} \\ \hline \mathbf{?} \end{array}$

A) 1

B) 2

C) 3

D) 4

E) 5

11. $\begin{array}{r} A \\ x\ A \\ \hline B \end{array} \qquad \begin{array}{r} C \\ x\ C \\ \hline D \end{array} \Rightarrow \mathbf{B \times D = ?}$

A) 4

B) 9

C) 24

D) 32

E) 36

12. $\begin{array}{r} K\ L\ 3\ M\ K \\ +\ L\ N\ K\ L\ 4 \\ \hline T\ 8\ M\ 1\ 9 \end{array} \Rightarrow \mathbf{T = ?}$

A) 4

B) 5

C) 6

D) 7

E) 8

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
D	E	E	C	D	C	E	B	D	A	E	D

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} M \\ -\ L \\ \hline 2 \end{array} \qquad \begin{array}{r} M\ L \\ -\ L\ M \\ \hline 1\ T \end{array} \Rightarrow \mathbf{T = ?}$

A) 6
B) 7
C) 8
D) 9
E) 10

2. $\begin{array}{r} A\ B\ C \\ -\ C\ B\ A \\ \hline T\ A\ 3 \end{array} \Rightarrow \mathbf{A + T = ?}$

A) 15
B) 16
C) 17
D) 18
E) 19

3. $\begin{array}{r} A\ B \\ -\ B\ A \\ \hline 1\ A \end{array} \Rightarrow \mathbf{A + B = ?}$

A) 11
B) 12
C) 13
D) 14
E) 15

4. $\begin{array}{r} M\ N \\ +\ R\ P \\ \hline 7\ M \end{array} \Rightarrow \mathbf{\min(N + R + P) = ?}$

A) 5
B) 6
C) 7
D) 8
E) 9

5. $\begin{array}{r} K \\ \times\ L \\ \hline K \end{array} \qquad \begin{array}{r} K\ L \\ +\ L\ M \\ \hline M\ 5 \end{array} \Rightarrow \mathbf{M = ?}$

A) 2
B) 3
C) 4
D) 5
E) 6

6. $\begin{array}{r} K\ L\ M \\ +\ \ M\ L \\ \hline K\ K\ K \end{array} \qquad \begin{array}{r} M \\ \times\ L \\ \hline 1\ 2 \end{array} \Rightarrow \mathbf{\max(M) = ?}$

A) 3
B) 4
C) 6
D) 7
E) 9

7.

$$\begin{array}{r} K\ K \\ L\ L \\ \times\ \ M\ M \\ \hline K\ K\ 0 \end{array} \qquad \begin{array}{r} M \\ -\ L \\ \hline K \end{array} \quad \Rightarrow \mathbf{L = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

8.

$$\begin{array}{r} K\ 0\ K\ L \\ L\ 0\ K \\ +\ \ \ K\ 0 \\ \hline 2\ L\ L\ x \end{array} \quad \Rightarrow \mathbf{x = ?}$$

A) 2

B) 3

C) 4

D) 5

E) 6

9.

$$\begin{array}{r} K\ 5 \\ -\ L\ 3 \\ \hline 1\ M \end{array} \qquad \begin{array}{r} K\ 5 \\ -\ T\ 3 \\ \hline M\ M \end{array} \qquad \begin{array}{r} L \\ -\ T \\ \hline ? \end{array}$$

A) 0

B) 1

C) 2

D) 3

E) 4

10.

$$\begin{array}{r} K\ K\ L \\ -\ T\ M\ L \\ \hline L\ M\ 0 \end{array} \qquad \begin{array}{r} T\ M\ L \\ +\ L\ M\ 0 \\ \hline ?\ ?\ ? \end{array}$$

A) LLK

B) KKL

C) KLK

D) LLL

E) KKK

11.

$$\begin{array}{r} K\ L \\ +\ \ L\ M \\ \hline K\ K\ K \end{array} \quad \Rightarrow \mathbf{M = ?}$$

A) 9

B) 8

C) 5

D) 2

E) 1

12.

$$\begin{array}{r} K\ L \\ +\ M\ L \\ \hline L\ M \end{array} \quad 5 < L < 9 \Rightarrow \mathbf{K + L = ?}$$

A) 5

B) 6

C) 7

D) 8

E) 9

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
C	A	D	C	C	C	B	E	B	B	D	E

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} a\ b \\ -\ c\ c \\ \hline d\ 6 \end{array} \qquad \begin{array}{r} b \\ +\quad c \\ \hline d\ 0 \end{array} \quad \Rightarrow \mathbf{a + c + d = ?}$

A) 2
B) 6
C) 8
D) 10
E) 12

2. $\begin{array}{r} K\ L \\ +\quad K \\ \hline M\ 6 \end{array} \qquad \begin{array}{r} L \\ -\ K \\ \hline 2 \end{array} \quad \Rightarrow \mathbf{K = ?}$

A) 2
B) 6
C) 7
D) 9
E) 0

3. $\begin{array}{r} K \\ +\ 2 \\ \hline L \end{array} \qquad \begin{array}{r} L \\ +\ 3 \\ \hline M \end{array} \qquad \begin{array}{r} M \\ -\ 1 \\ \hline N \end{array} \quad \Rightarrow \quad \begin{array}{r} M\ N\ K \\ -\ L\ K\ N \\ \hline ?\ ?\ ? \end{array}$

A) 321
B) 333
C) 336
D) 338
E) 341

4. $\begin{array}{r} A\ B \\ -\ C\ C \\ \hline 7 \end{array} \qquad \begin{array}{r} C \\ +\ B \\ \hline 7 \end{array} \quad \Rightarrow \mathbf{A = ?}$

A) 1
B) 2
C) 3
D) 5
E) 6

5. $\begin{array}{r} A\ A \\ +\ B\ B \\ \hline C\ C \end{array} \qquad \begin{array}{r} A\ A \\ +\ C\ C \\ \hline 9\ 9 \end{array} \quad \Rightarrow \mathbf{max(B) = ?}$

A) 5
B) 6
C) 7
D) 8
E) 9

6. $\begin{array}{r} K \\ K \\ +\quad K \\ \hline L\ K \end{array} \quad \Rightarrow \quad \begin{array}{r} \mathbf{K} \\ -\ \mathbf{L} \\ \hline \mathbf{?} \end{array}$

A) 1
B) 3
C) 4
D) 5
E) 7

7.

$$\begin{array}{r} K\,K \\ \times \quad L \\ \hline M\,M \end{array} \qquad \begin{array}{r} L \\ \times \quad M \\ \hline 1\,6 \end{array} \quad \Rightarrow \mathbf{K = ?}$$

A) 1

B) 2

C) 4

D) 6

E) 8

8.

$$\begin{array}{r} K\,L \\ \times \quad L\,M \\ \hline 1\,6\,N \\ +\;N\,1\,6 \\ \hline N\,M\,N\,N \end{array} \quad \Rightarrow \mathbf{K = ?}$$

A) 2

B) 3

C) 5

D) 6

E) 9

9.

$$\begin{array}{r} A\,B \\ \times\; B\,A \\ \hline 4\,C \\ +\;C\,D \\ \hline 7\,3\,C \end{array} \quad \Rightarrow \mathbf{AB = ?}$$

A) 23

B) 32

C) 73

D) 37

E) 27

10.

$$\begin{array}{r} A\,B \\ \times \quad B\,A \\ \hline D\,0\,B \\ +\;5\,D\,D \\ \hline 5\,8\,D\,8 \end{array} \quad \Rightarrow \mathbf{A + B + D = ?}$$

A) 18

B) 20

C) 22

D) 24

E) 26

11.

$$\begin{array}{r} A\,B \\ \times \quad C \\ \hline 2\,B\,B \end{array} \qquad \begin{array}{r} A \\ \times \quad B \\ \hline 3\,2 \end{array} \quad \Rightarrow \mathbf{C = ?}$$

A) 2

B) 4

C) 6

D) 8

E) 9

12.

$$\begin{array}{r} A\,A\,A \\ \times \quad A\,A \\ \hline B\,B\,B \\ +\;B\,B\,B \\ \hline 1\,0\,B\,C\,B \end{array} \quad \Rightarrow \mathbf{C = ?}$$

A) 3

B) 6

C) 7

D) 8

E) 9

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	C	C	E	C	C	C	C	A	A	C	D

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{rccccc}
 & & & A & A & A \\
\times & & & A & A & A \\
\hline
 & & & B & B & B \\
 & & B & B & B & \\
+ & B & B & B & & \\
\hline
B & C & A & 8 & B &
\end{array} \Rightarrow \mathbf{A + B + C = ?}$$

A) 14
B) 15
C) 16
D) 17
E) 18

2.

$$\begin{array}{rcccccc}
 & & & & A & A & A \\
\times & & & & B & B & B \\
\hline
 & & & C & C & C & 0 \\
 & & C & C & C & 0 & \\
+ & C & C & C & 0 & & \\
\hline
C & B & 9 & B & C & 0 &
\end{array} \Rightarrow \mathbf{ABC = ?}$$

A) 365
B) 563
C) 965
D) 753
E) 395

3.

$$\begin{array}{rccc|cc}
 & A & B & C & C & 7 \\
- & A & 1 & & 3 & 3 \\
\cline{1-3}
 & & A & 2 & & \\
- & & A & 1 & & \\
\cline{2-4}
 & & & 1 & &
\end{array} \Rightarrow \mathbf{B = ?}$$

A) 2
B) 3
C) 7
D) 8
E) 9

4.

$$\begin{array}{rccc|cc}
 & A & B & C & A & C \\
- & A & C & & 1 & 1 \\
\cline{1-3}
 & & 3 & C & & \\
- & & A & 5 & & \\
\cline{2-4}
 & & & 0 & &
\end{array} \Rightarrow \mathbf{B = ?}$$

A) 3
B) 4
C) 5
D) 8
E) 9

5. $\dfrac{LM92}{M} = 87L \Rightarrow \mathbf{L + M = ?}$

A) 6
B) 7
C) 8
D) 10
E) 12

6. $\dfrac{9K9K}{L0L} = 12 \quad \dfrac{M4M4}{404} = 1N \Rightarrow \mathbf{K + L + M + N = ?}$

A) 16
B) 17
C) 18
D) 19
E) 20

7.
$$\begin{array}{r|l} A\,5\,A\,B & A\,B \\ \cline{2-2} -\,A\,3 & 1\,0\,B \\ \cline{1-1} 2\,9\,3 & \\ -\;2\,7\,A & \\ \cline{1-1} 1\,4 & \end{array} \Rightarrow \mathbf{A + B = ?}$$

A) 8

B) 12

C) 15

D) 18

E) 21

8.
$$\begin{array}{r|l} A & B \\ \cline{2-2} -\,6 & C \\ \cline{1-1} C & \end{array} \Rightarrow \mathbf{A + B + C = ?}$$

A) 5

B) 11

C) 13

D) 15

E) 18

9.
$$\begin{array}{r|l} A\,B\,B\,A & C\,A \\ \cline{2-2} -\,A\,B & 2\,0\,1 \\ \cline{1-1} B\,A & \\ -\;C\,A & \\ \cline{1-1} C\,0 & \end{array} \qquad \begin{array}{r|l} A & C \\ \cline{2-2} -\,8 & 2 \\ \cline{1-1} 1 & \end{array} \Rightarrow \mathbf{ABA = ?}$$

A) 121

B) 212

C) 818

D) 828

E) 989

10. $\dfrac{1M08}{M} = 244 \Rightarrow \mathbf{M = ?}$

A) 2

B) 4

C) 7

D) 8

E) 9

11.
$$\begin{array}{r|l} A\,B\,C & C\,B\,A \\ \cline{2-2} -\,C\,B\,A & D \\ \cline{1-1} \cdot\;E\;\cdot & \end{array} \Rightarrow \mathbf{D + E = ?}$$

A) 0

B) 9

C) 5

D) 10

E) 12

12.
$$\begin{array}{r} A\;4 \\ -\;2\;B \\ \hline 3\;A \end{array} \Rightarrow \mathbf{A + B = ?}$$

A) 2

B) 4

C) 6

D) 10

E) 14

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
B	B	E	D	B	D	B	C	E	C	D	E

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, each letter stands for a different non-zero numeral. Accordingly, find the value of the letter or operation indicated by the questions mark.

1. $\begin{array}{r} KK \\ +\ 33 \\ \hline LL \end{array} \qquad \begin{array}{r} LL \\ -\ 66 \\ \hline MM \end{array} \qquad \begin{array}{r} MMM \\ +\ 111 \\ \hline NNN \end{array} \quad \Rightarrow \quad \begin{array}{r} LKMN \\ -\ NMKL \\ \hline ???? \end{array}$

A) 5265
B) 5348
C) 5437
D) 6248
E) 6347

2. $\begin{array}{r} KL \\ \times\ \ M \\ \hline 282 \end{array} \qquad \begin{array}{r} KL \\ \times\ \ N \\ \hline 423 \end{array} \qquad \begin{array}{r} KL \\ \times\ NM \\ \hline ???? \end{array}$

A) 3243
B) 3684
C) 4368
D) 4512
E) 4968

3. $\begin{array}{r} A \\ +\ B \\ \hline 8 \end{array} \qquad \begin{array}{r} C \\ +\ D \\ \hline 12 \end{array} \qquad \begin{array}{r} A \\ -\ B \\ \hline 4 \end{array} \qquad \begin{array}{r} C \\ -\ D \\ \hline A \end{array} \quad \Rightarrow \quad D = ?$

A) 2
B) 3
C) 4
D) 5
E) 6

4. $\begin{array}{r|l} K65L & ML \\ \cline{2-2} -\ KM\ \ & L06 \\ \cline{1-1} L5L & \\ -\ 2N2 & \\ \cline{1-1} 0 & \end{array} \quad \Rightarrow \quad K = ?$

A) 2
B) 4
C) 6
D) 7
E) 8

5. $\begin{array}{r} K68L \\ -\ 12K9 \\ \hline LKLK \end{array} \quad \Rightarrow \quad K + L = ?$

A) 7
B) 8
C) 9
D) 10
E) 11

6. $\begin{array}{r} AAAA \\ AAA \\ AA \\ +\ \ \ A \\ \hline ABCD \end{array} \qquad \dfrac{D}{A} = B \quad \Rightarrow \quad D = ?$

A) 1
B) 2
C) 4
D) 6
E) 8

7.

$$\begin{array}{rccc} & K & L & 1 \\ - & L & K & M \\ \hline & M & K & 0 \end{array} \Rightarrow \mathbf{K + M = ?}$$

A) 6

B) 7

C) 8

D) 9

E) 10

8.

$$\begin{array}{rc} & A \\ & B \\ & A \\ + & B \\ \hline x & 0 \end{array} \qquad \begin{array}{rc} & B \\ & C \\ & B \\ + & C \\ \hline x & 4 \end{array} \Rightarrow \mathbf{C - A = ?}$$

A) 1

B) 2

C) 3

D) 4

E) 5

9.

$$\begin{array}{rccc} & & K & K \\ & & L & L \\ & & M & M \\ + & & T & T \\ \hline & 1 & T & 3 \end{array} \Rightarrow \mathbf{K + L + M = ?}$$

A) 1

B) 5

C) 9

D) 10

E) 11

10.

$$\begin{array}{rccc} & K & L & M \\ - & & K & K \\ \hline & 4 & 9 & L \end{array} \Rightarrow \mathbf{M = ?}$$

A) 5

B) 6

C) 7

D) 8

E) 9

11.

$$\begin{array}{rccc} & A & B & 2 \\ - & B & C & C \\ \hline & B & C & C \end{array} \qquad \begin{array}{rc} & C \\ - & B \\ \hline & 3 \end{array} \Rightarrow \mathbf{A = ?}$$

A) 5

B) 6

C) 7

D) 8

E) 9

12.

$$\begin{array}{rcc} & K & L \\ - & L & B \\ \hline & A & 2 \end{array} \qquad \begin{array}{rcc} & B & L \\ - & & A \\ \hline & & 9 \end{array} \Rightarrow \mathbf{(K + L) - (A + B) = ?}$$

A) 5

B) 7

C) 9

D) 11

E) 13

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	D	B	E	A	E	D	B	C	E	C	A

Aşağıdaki sorularda verilen işlemlerdeki harfler sıfır veya birbirine eşit olabilecektir. Buna göre, soru işareti ile belirtilen harf ya da işlemin değerini bulunuz.

In the operations which are given in the following questions, the letters may equal to zero or each other. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} K\ 4 \\ \times\ \ 3\ L \\ \hline 1\ 2\ M \\ +\ \bullet\ 2\ \ \\ \hline 8\ 4\ M \end{array} \Rightarrow K + L + M = ?$$

A) 7

B) 8

C) 9

D) 10

E) 11

2.

$$\begin{array}{r} 6\ K \\ \times\ \ K\ 7 \\ \hline \bullet\ \bullet\ \bullet \\ +\ \bullet\ \bullet\ 5\ \ \\ \hline A\ B\ C\ D \end{array} \Rightarrow A + B + C + D = ?$$

A) 12

B) 15

C) 16

D) 20

E) 21

3.

$$\begin{array}{r} K\ L\ M \\ \times\ \ 2\ N \\ \hline K\ L\ M \\ +\ 2\ 5\ 2\ \ \\ \hline \bullet\ \bullet\ \bullet\ \bullet \end{array} \Rightarrow K + L + M + N = ?$$

A) 10

B) 12

C) 14

D) 16

E) 18

4.

$$\begin{array}{r} K\ K \\ \times\ 1\ K\ K \\ \hline \bullet\ \bullet \\ \bullet\ \bullet\ \ \\ +\ \bullet\ \bullet\ \ \ \ \\ \hline N\ M\ L\ 4 \end{array} \Rightarrow K + L + M + N = ?$$

A) 12

B) 14

C) 16

D) 18

E) 20

5.

$$\begin{array}{l|l} K\ L\ M\ N & P \\ \cline{2-2} -P & X\ Y\ Z\ T \\ \cline{1-1} \ \ 2\ 6 & \\ -2\ 4 & \\ \cline{1-1} \ \ \ \ 2\ M & \\ -\ \ 2\ 4 & \\ \cline{1-1} \ \ \ \ \ \ 3\ 2 & \\ -\ \ \ \ 3\ 0 & \\ \cline{1-1} \ \ \ \ \ \ \ \ 2 & \end{array} \Rightarrow X + Y + Z + T = ?$$

A) 8

B) 10

C) 13

D) 14

E) 16

6.

$$\begin{array}{l|l} 8\ 4\ 1 & K \\ \cline{2-2} -K & L\ P\ M \\ \cline{1-1} \ \ \bullet\ 4 & \\ -x\ 4 & \\ \cline{1-1} \ \ 0\ 1 & \end{array} \qquad x > L \Rightarrow K + L + P + M = ?$$

A) 10

B) 11

C) 12

D) 13

E) 14

7. $\begin{array}{r|l} K\,5 & L \\ \cline{2-2} -\,3\,2 & M \\ \hline 3 & \end{array}$ $\quad \begin{array}{r} 2\,M \\ \times\quad L \\ \hline 1\,9\,P \end{array}$ $\Rightarrow$ **M + L + P = ?**

A) 10

B) 12

C) 14

D) 16

E) 18

8. $\begin{array}{r} K\,K \\ \times\quad L\,L \\ \hline \cdot\,\cdot\,\cdot \\ +\,\cdot\,\cdot\,\cdot\quad \\ \hline 2\,4\,2\,0 \end{array}$ $\Rightarrow$ $\begin{array}{r} K\,L \\ +\,L\,K \\ \hline ? \end{array}$

A) 99

B) 121

C) 132

D) 143

E) 154

9. $\begin{array}{r|l} A\,B & 3 \\ \cline{2-2} -\,A\,B & K \\ \hline 0 & \end{array}$ $\quad \begin{array}{r|l} K & 2 \\ \cline{2-2} -\,8 & L \\ \hline 1 & \end{array}$ $\Rightarrow$ **A + B = ?**

A) 7

B) 8

C) 9

D) 10

E) 11

10. $\begin{array}{r} K \\ \times\ L \\ \hline \cdot\,6 \end{array}$ $\quad \begin{array}{r} K \\ +\ L \\ \hline 1\,5 \end{array}$ $\Rightarrow$ $\begin{array}{r|l} K\,L & 2 \\ \cline{2-2} & ? \end{array}$

A) 33

B) 35

C) 37

D) 39

D) 41

11. $\begin{array}{r|l} K\,L\,M & 1\,4 \\ \cline{2-2} -\,8\,4\quad & \cdot\ \cdot \\ \hline N\,M & \\ -\quad 8\,4 & \\ \hline 1\,1 & \end{array}$ $\Rightarrow$ **K + L + M + N = ?**

A) 16

B) 19

C) 21

D) 24

E) 26

12. $\begin{array}{r} A\,B\,C\,D \\ \times\qquad K\,7 \\ \hline 7\,9\,7\,3 \\ +\,\cdot\,\cdot\,\cdot\,\cdot\quad \\ \hline 3\,0\,7\,5\,\cdot \end{array}$ $\Rightarrow$ **A + B + C + D + K = ?**

A) 14

B) 15

C) 16

D) 17

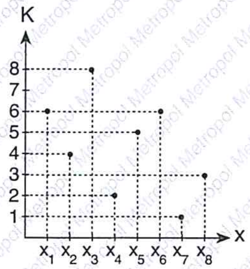
E) 18

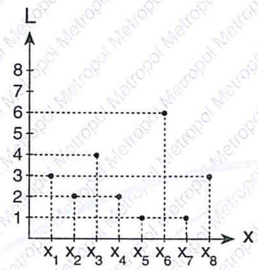
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	B	A	D	D	B	C	A	C	D	E	C

GRAFİKLER
GRAPHS

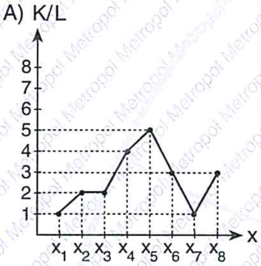
1.



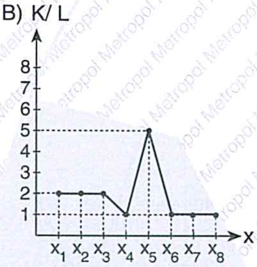


$\Rightarrow$ **K / L = ?**

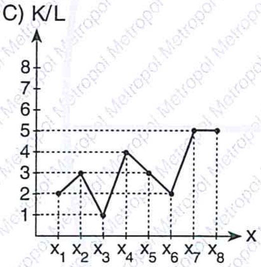
A) K/L



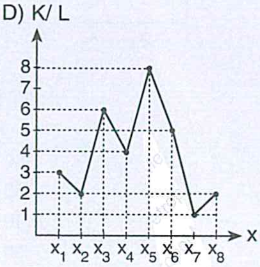
B) K/ L



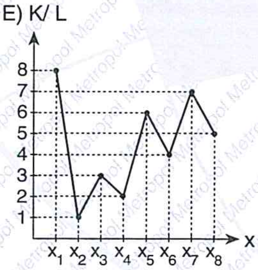
C) K/L



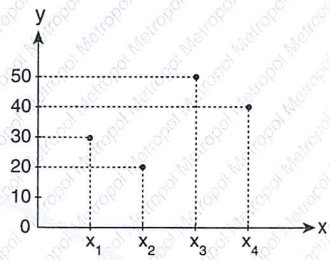
D) K/ L



E) K/ L



2.

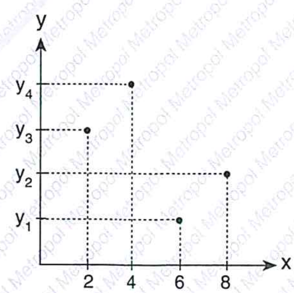


$\Rightarrow$ $(x_3 - x_4)\cdot(x_1 - x_2) = ?$

A) 100 B) 200 C) 300 D) 400 E) 500

3. $y_1 + y_2 + y_3 + y_4 = 2000$

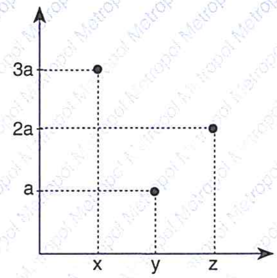
$\Rightarrow$ $y_1 + y_4 = ?$



A) 200 B) 400 C) 600 D) 800 E) 1000

4. $x + y + z = 360$

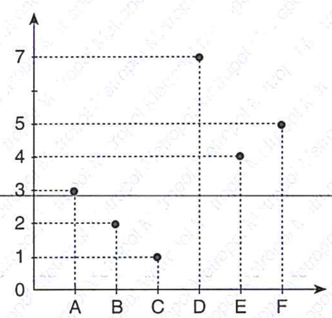
$\Rightarrow$ **z = ?**



A) 30 B) 60 C) 90

D) 120 E) 180

5.

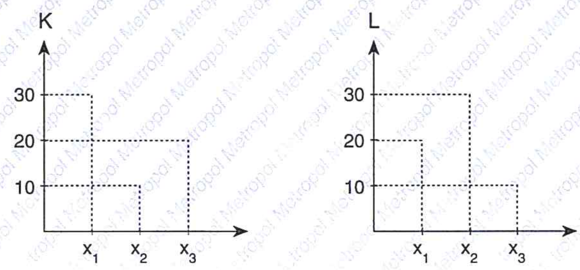


$A + B + C + D + E + F = 484 \Rightarrow$ **F = ?**

A) 70 B) 80 C) 90

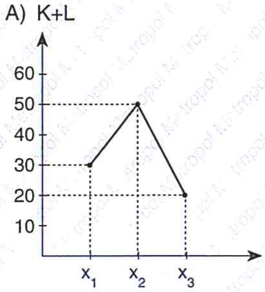
D) 100 E) 110

6.

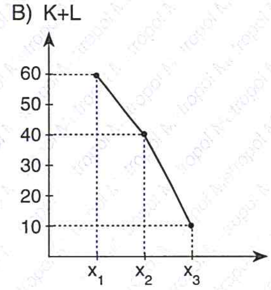


$\Rightarrow$ **K + L = ?**

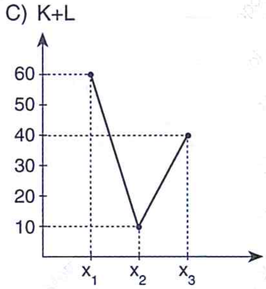
A) K+L



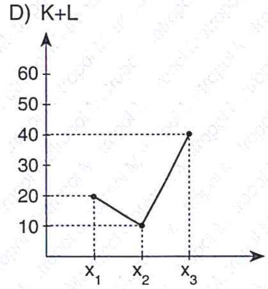
B) K+L



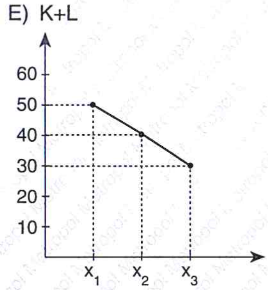
C) K+L



D) K+L



E) K+L



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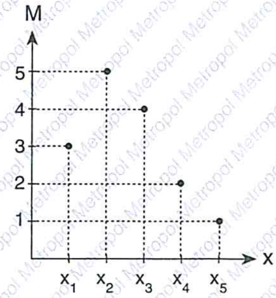
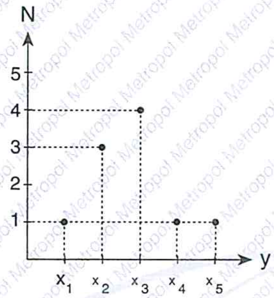
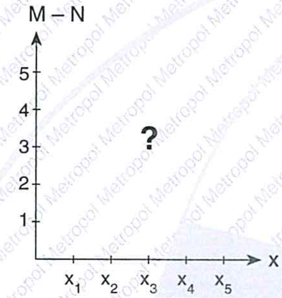
1	2	3	4	5	6
B	A	E	D	E	E

1.

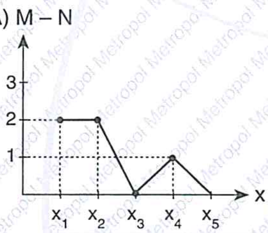




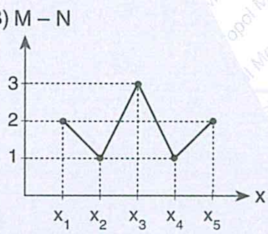
$\Rightarrow$



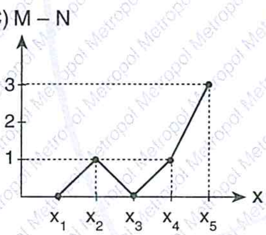
A)



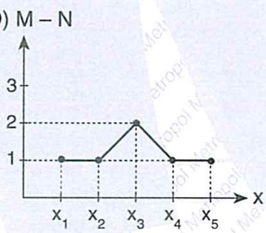
B)



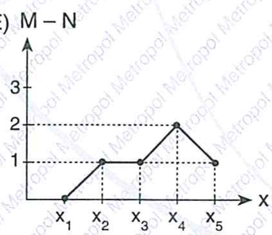
C)



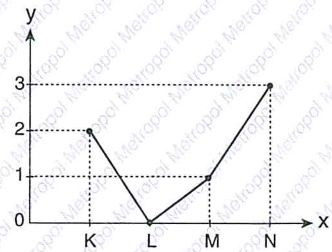
D)



E)



2.

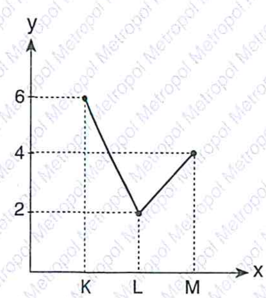


$\Rightarrow$ **L·(2K + N + M) = ?**

A) 0 B) 2 C) 4 D) 9 E) 10

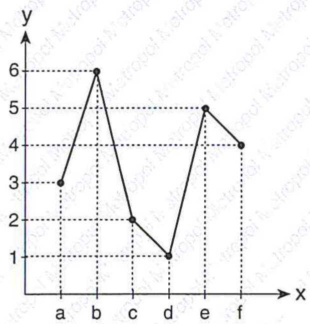
3. K + L + M = 36

$\Rightarrow$ **M = ?**



A) 12 B) 24 C) 38 D) 64 E) 72

4.

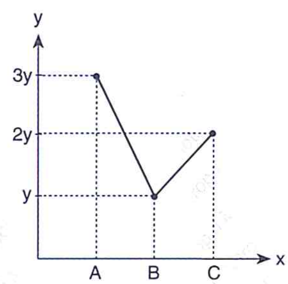


$$\Rightarrow \frac{5a + 2b + 3d + 4c + 6e + 3f}{5} = ?$$

A) 10 B) 12 C) 14 D) 16 E) 18

5. A + B + C = 72

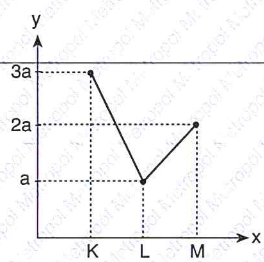
⇒ **B = ?**



A) 12 B) 14 C) 16 D) 18 E) 20

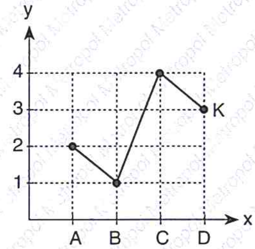
6. K + L + M = 120

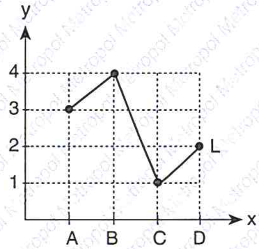
⇒ **K – M = ?**



A) 10 B) 20 C) 30 D) 40 E) 50

7.



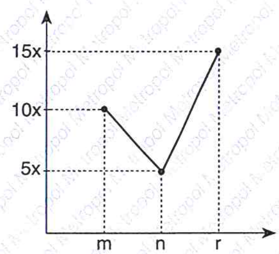


$\Rightarrow \mathbf{K_A + K_B + [L_A \cdot L_D] - L_C = ?}$

A) 4 B) 5 C) 6 D) 7 E) 8

8. m + n + r = 1800

⇒ **m – n = ?**



A) 200 B) 300 C) 500 D) 600 E) 800

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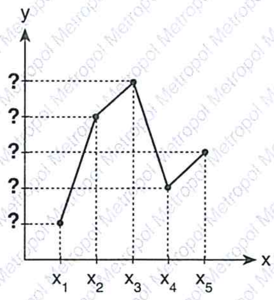
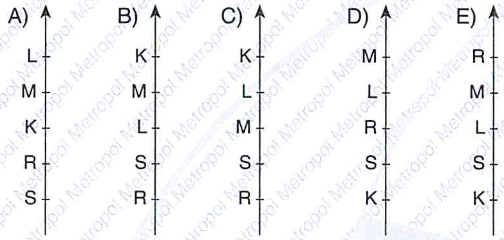
1	2	3	4	5	6	7	8
A	A	A	D	A	B	E	B

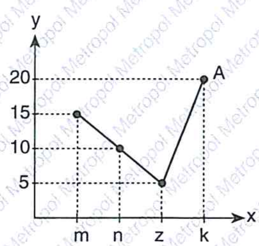
1.

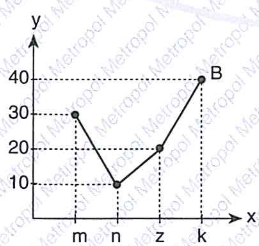


$x_1 = K$
$x_2 = L$
$x_3 = M$
$x_4 = S$
$x_5 = R$



2.

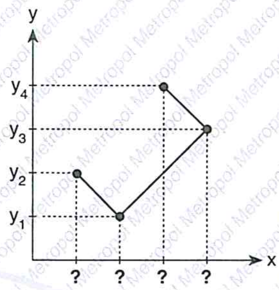




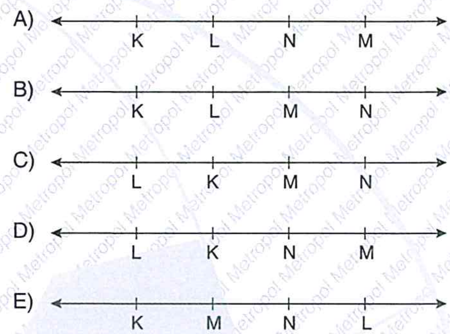
$\Rightarrow A_m + B_n + A_k + B_z = ?$

A) 50 B) 55 C) 60 D) 65 E) 70

3.

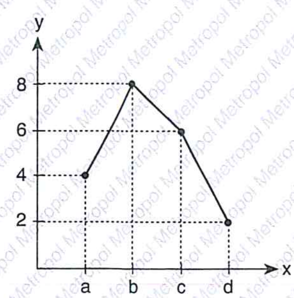


$y_1 = L$
$y_2 = K$
$y_3 = N$
$y_4 = M$



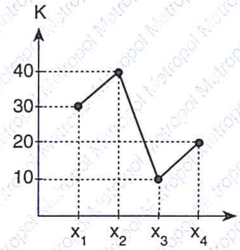
4. $a + b + c + d = 720$

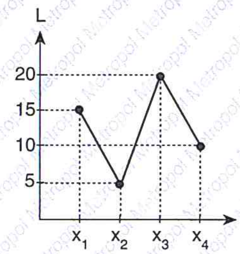
$\Rightarrow$ **$b - c = ?$**



A) 16 B) 36 C) 72 D) 80 E) 84

5.



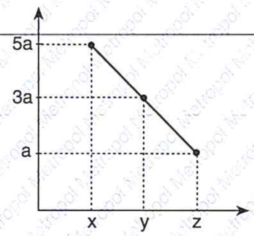


$$\Rightarrow \frac{Kx_2 + Lx_4 + Lx_1 - Kx_4}{Lx_2} = ?$$

A) 9 B) 10 C) 11 D) 13 E) 15

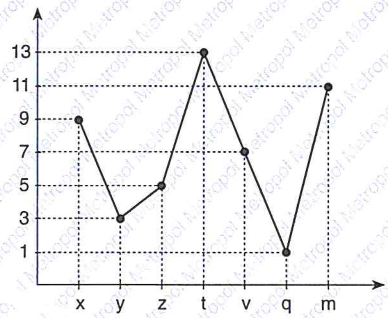
6. $x + y + z = 162$

$$\Rightarrow \frac{x - z}{2} = ?$$



A) 36 B) 38 C) 40 D) 42 E) 44

7.

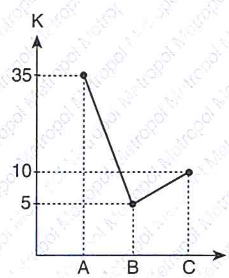


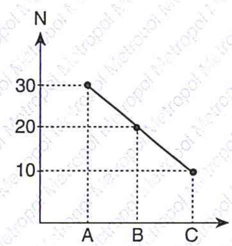
$x + y + z + t + v + q + m = 245$

$\Rightarrow$ **$m - x + y + z = ?$**

A) 50 B) 60 C) 70 D) 80 E) 90

8.





$\Rightarrow$ **$K(A + B) - N(B + C) + K(A - B) - N(A - B) = ?$**

A) 10 B) 20 C) 30 D) 40 E) 50

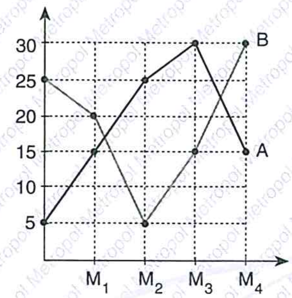
YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	D	B	C	A	A	A	C

1. $(A-B)_{M_2}=x$

$(A+B)_{M_4}=z$

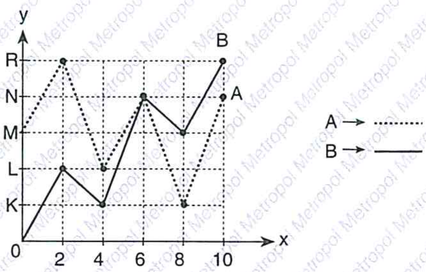
$\left(\frac{A}{B}\right)_{M_3}=y$



$\Rightarrow$ **$y\cdot(z-x)=?$**

A) 30 B) 40 C) 50 D) 60 E) 70

3.



$\Rightarrow$ **$(A-B)_{yK}+(A)_{yM}+(B)_{yL}+(A+B)_{yR}=?$**

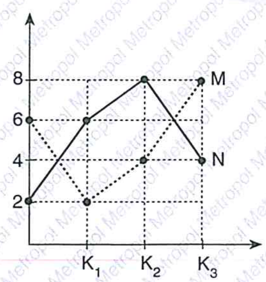
A) 16 B) 18 C) 20 D) 22 E) 24

2. $K_1\rightarrow N-M=x$

$K_3\rightarrow M+N=y$

$K_2\rightarrow \frac{N}{M}=z$

$\Rightarrow$ **$\left(\frac{y}{z}\right)-x=?$**



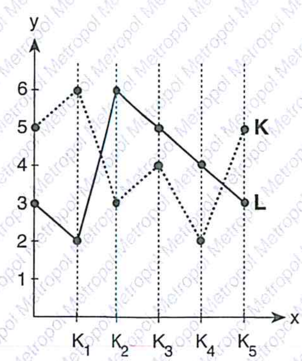
A) 1 B) 2 C) 3 D) 4 E) 5

4. $K_5=K-L=a$

$K_1=K/L=b$

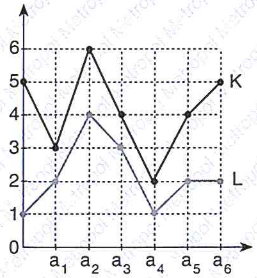
$K_4=K+L=c$

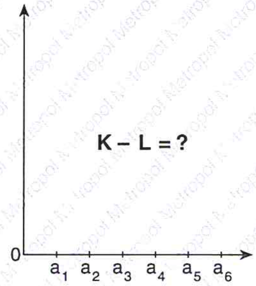
$\Rightarrow$ **$(a+b)-c=?$**



A) 2 B) 1 C) 0 D) –1 E) –2

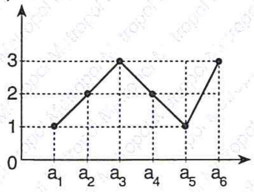
5.



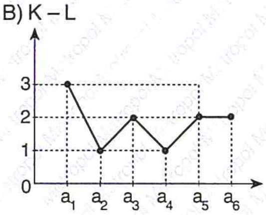


K – L = ?

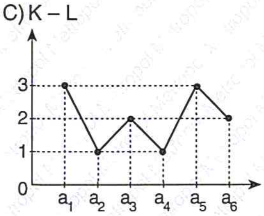
A) K – L



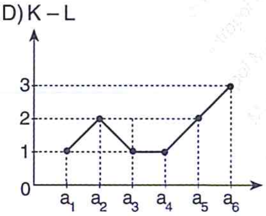
B) K – L



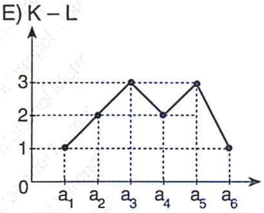
C) K – L



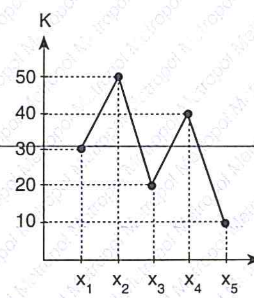
D) K – L

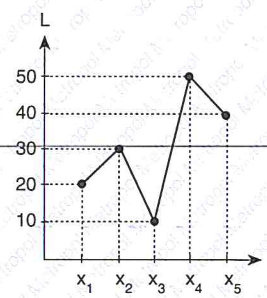


E) K – L



6.





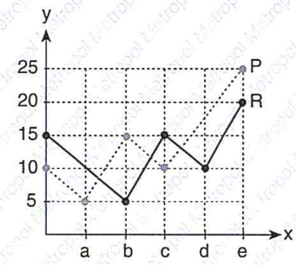
$\Rightarrow$ **$Kx_3 + Lx_5 + 2Kx_5 - Lx_4 + Lx_2 = ?$**

A) 60 B) 70 C) 80 D) 90 E) 100

7. $x_e \rightarrow P - R = x$

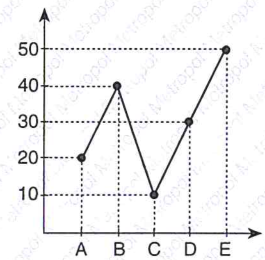
$x_b \rightarrow P - R = y$

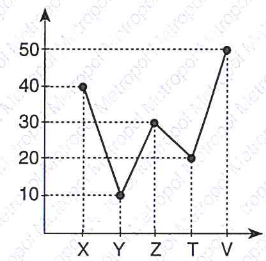
$\Rightarrow$ **$x - y = ?$**



A) 0 B) –5 C) 5 D) –10 E) 10

8.





C = Y $\Rightarrow$ **D = ?**

A) X B) Y C) Z D) T E) V

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1	2	3	4	5	6	7	8
C	B	B	D	D	A	B	C

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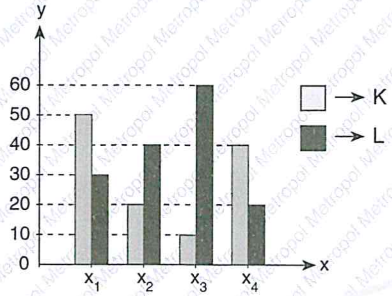
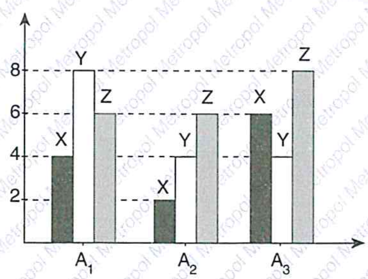
1.



$\Rightarrow$ **$(x_1L - x_2K) + (x_3L - x_4K) = ?$**

A) 10 B) 20 C) 30 D) 40 E) 50

2.

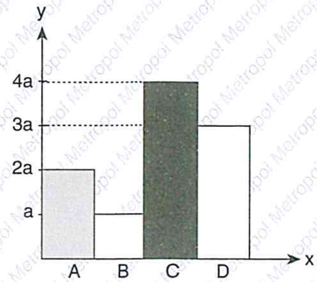


$\Rightarrow$ **$A_1X + A_2Z + A_3Y = ?$**

A) 10 B) 12 C) 14 D) 16 E) 18

3. $A + B + C + D = 160$

$\Rightarrow$ **$C - B = ?$**



A) 32 B) 40 C) 48 D) 56 E) 64

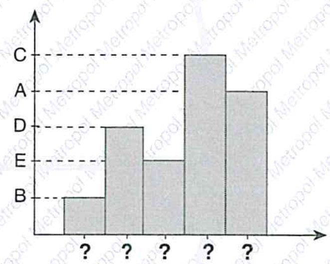
4. A → x

B → y

C → z

D → t

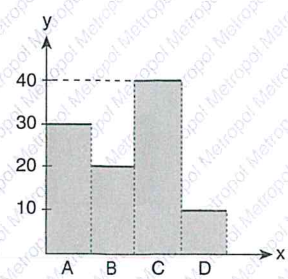
E → v



A) y, t, z, v, x B) t, y, v, z, x C) y, t, v, z, x D) x, y, v, t, z E) y, x, z, t, v

5. $A + B + C + D = 4600$

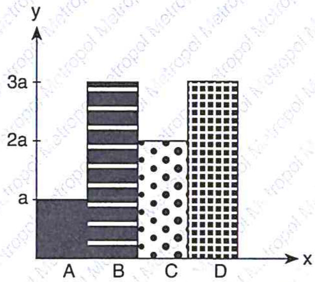
$\Rightarrow$ **$B - D = ?$**



A) 400 B) 420 C) 440 D) 460 E) 480

6. $A + B + C + D = 990$

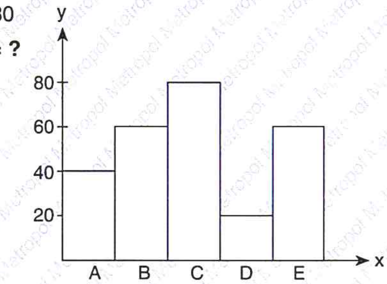
$\Rightarrow$ **$D - A = ?$**



A) 100 B) 110 C) 120 D) 220 E) 330

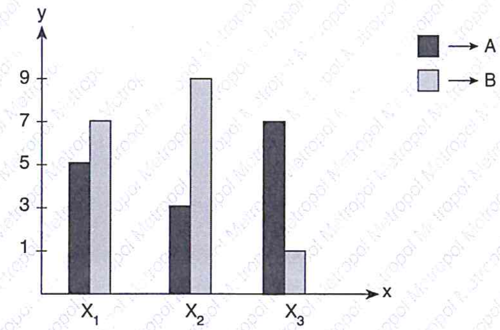
8. $A + B + C + D + E = 780$

$\Rightarrow$ **$A - B + C + D - E = ?$**



A) 50 B) 60 C) 70 D) 80 E) 90

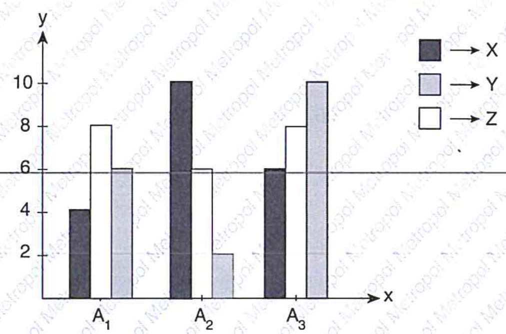
9.



$$\Rightarrow \frac{(B \cdot X_1 + AX_2) \cdot (AX_3 + BX_2)}{(B \cdot X_2 - 4B \cdot X_3}$$

A) 24 B) 26 C) 28 D) 30 E) 32

7.



$A_1Y - A_2Z + A_3X + A_1X + A_2Y - A_3Z = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

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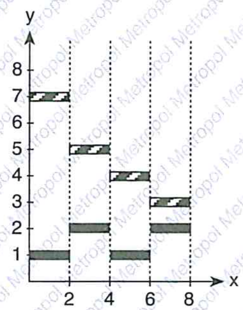
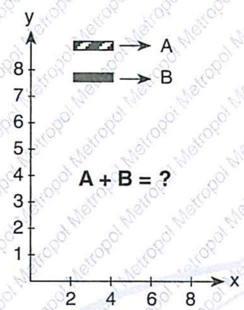
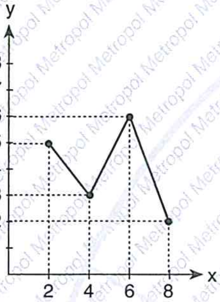
1	2	3	4	5	6	7	8	9
C	C	C	C	D	D	A	B	E

1.

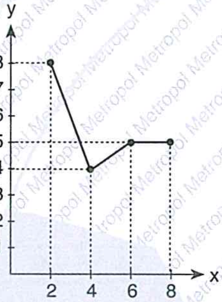




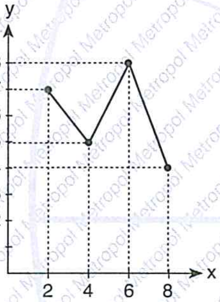
A)



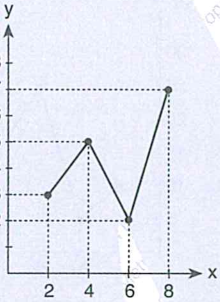
B)



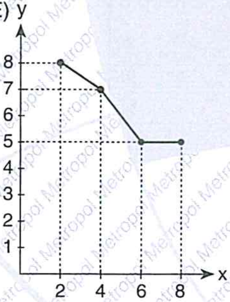
C)



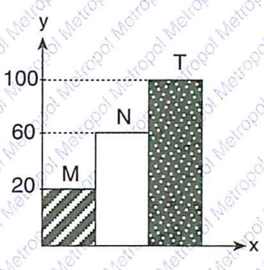
D)

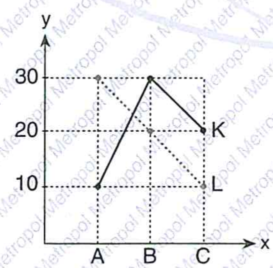


E)



2.

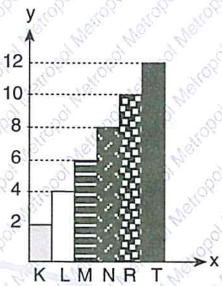


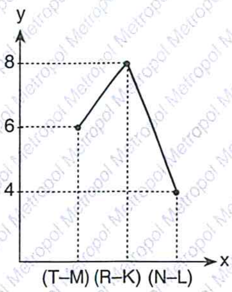


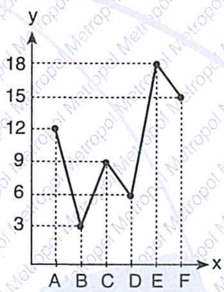
$x_M + B_K = 50 \Rightarrow (x_N - C_L) + (X_T - A_K) = ?$

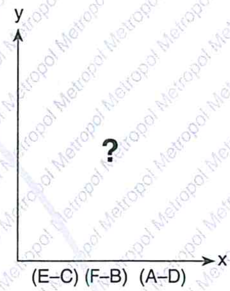
A) 100 B) 110 C) 120 D) 130 E) 140

3.

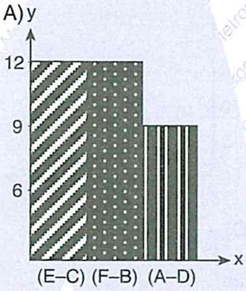




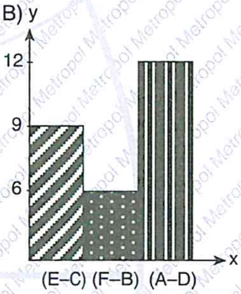




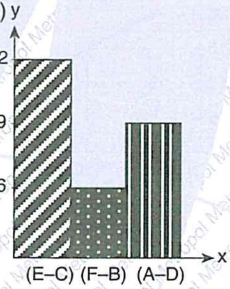
A)



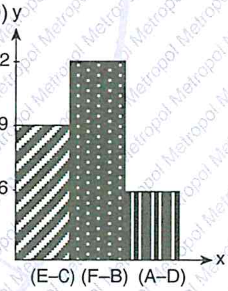
B)



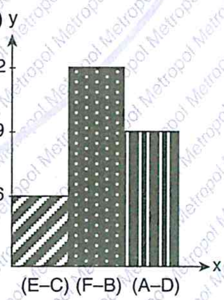
C)



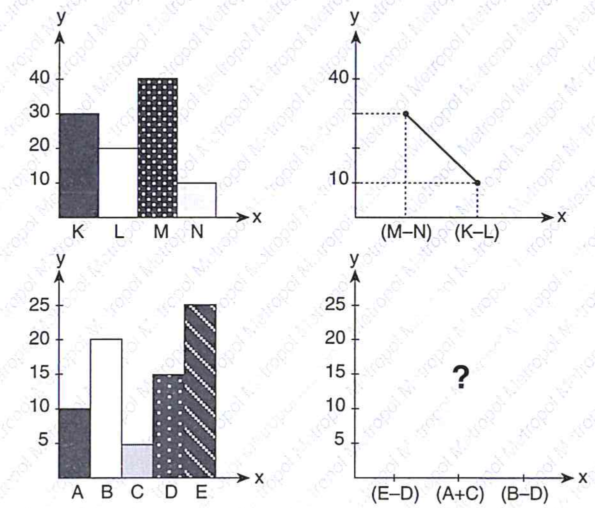
D)

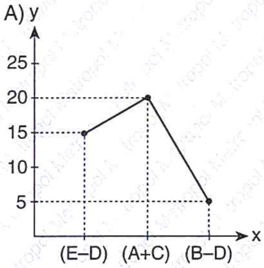


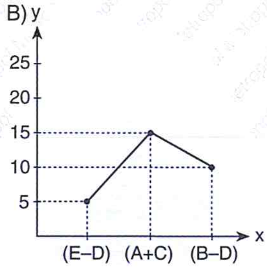
E)

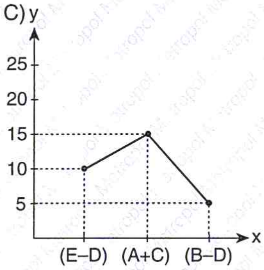


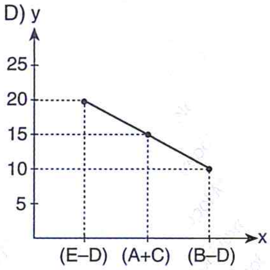
4.

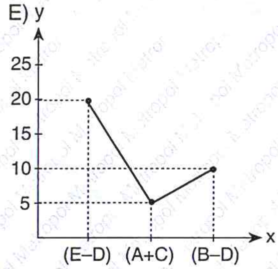


A)


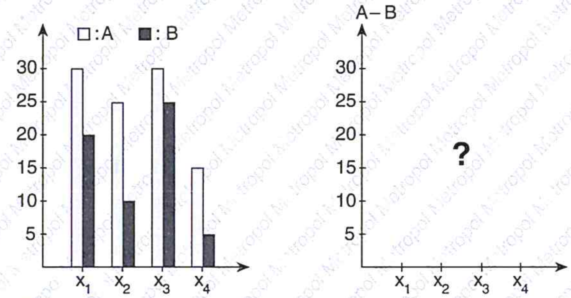
B)


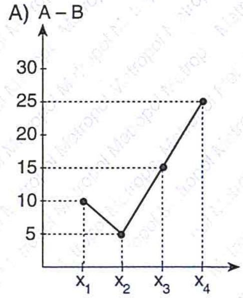
C)


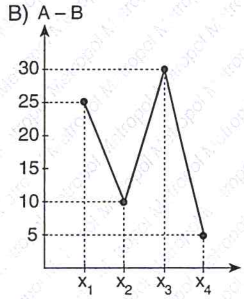
D)


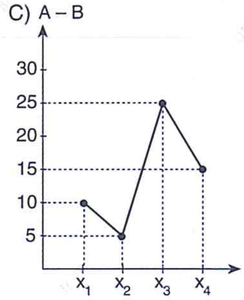
E)


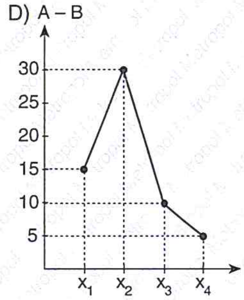
5.

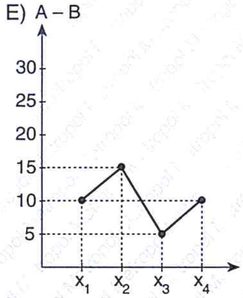


A)


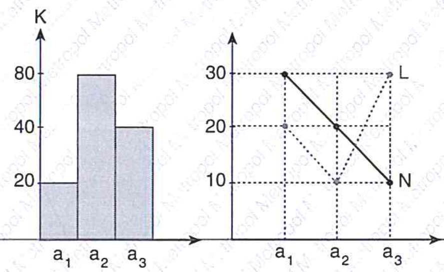
B)


C)


D)


E)


6.



$a_1(K + L) = 40 \Rightarrow$ $\mathbf{a_2(K + L) + a_3 (K - L) + a_3(K - N) + a_2(N + K) = ?}$

A) 230 B) 240 C) 250 D) 260 E) 270

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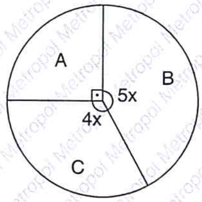
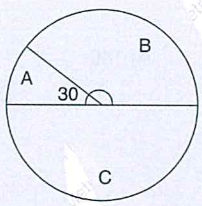
1	2	3	4	5	6
E	E	D	C	E	A

1. ⇒ **B = ?**



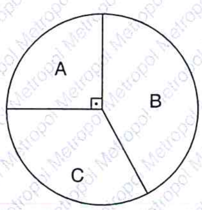
A) 100 B) 120 C) 150 D) 180 E) 200

2. ⇒ **A = ? B = ? C = ?**



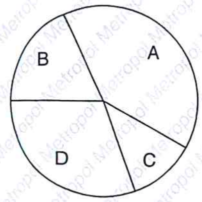
A) A < B < C B) A = B > C C) A < B = C D) A > B > C E) A = B = C

3. A + B = 220
⇒ **C – B = ?**



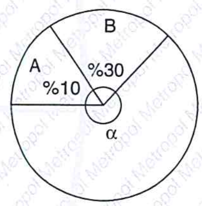
A) 10 B) 20 C) 30 D) 40 E) 50

4. A = 2B,
C + D = 150
⇒ **A = ?**



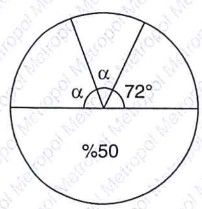
A) 110 B) 120 C) 130 D) 140 E) 150

5. ⇒ **α = ?**



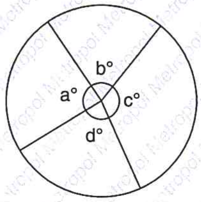
A) 212 B) 213 C) 214 D) 215 E) 216

6. ⇒ **α = ?**



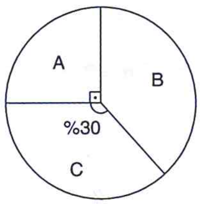
A) 48° B) 54° C) 72° D) 96° E) 108°

7. $a = 50°$
$b + c = 200°$
$b + d = 160°$
$\Rightarrow$ **b = ?**



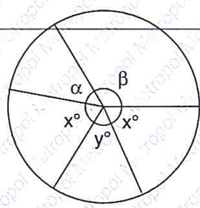
A) 50 B) 60 C) 70 D) 80 E) 90

8. $\Rightarrow$ **B = ?**



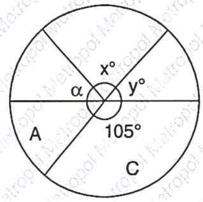
A) 160 B) 162 C) 164 D) 166 E) 163

9. $y = 50°$
$\alpha + \beta = 160°$
$\Rightarrow$ **x° = ?**



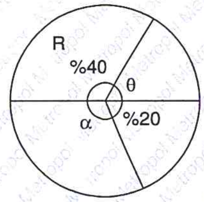
A) 60 B) 65 C) 70 D) 75 E) 80

10. $A + C = \alpha + x + y = 180$
$\alpha + y = C$
$\Rightarrow$ **x° = ?**



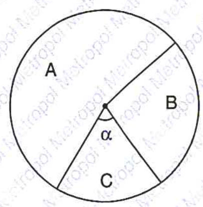
A) 60 B) 65 C) 70 D) 75 E) 80

11. $\Rightarrow \alpha + \theta = ?$



A) 140 B) 142 C) 144 D) 146 E) 148

12. $A = 2 \cdot B$,
$3 \cdot B = 5 \cdot C$
$\Rightarrow \alpha = ?$

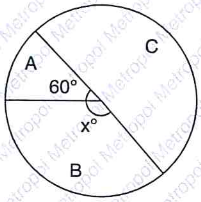


A) 60° B) 70° C) 80° D) 90° E) 100°

YANITLAR / ANSWERS

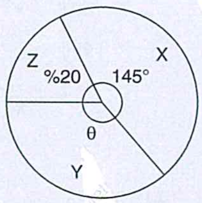
1	2	3	4	5	6	7	8	9	10	11	12
C	A	A	D	E	B	A	B	D	D	C	A

1. $B = \frac{C}{2} \Rightarrow x^\circ = ?$



A) 100 B) 140 C) 180 D) 200 E) 220

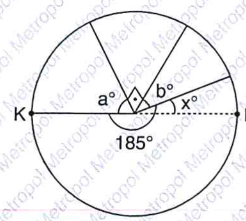
2. $\Rightarrow \theta = ?$



A) 141° B) 142° C) 143° D) 144° E) 145°

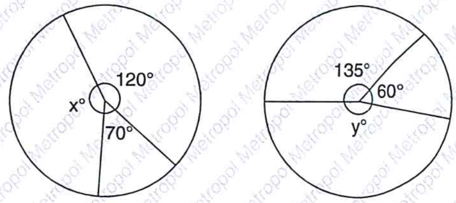
3. $m(\overset{\frown}{KL}) = 180^\circ$

$\Rightarrow (a + b) - x = ?$



A) 70 B) 75 C) 80 D) 85 E) 90

4.



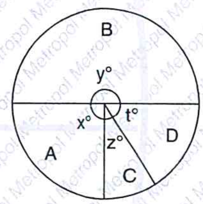
$\Rightarrow x^\circ - y^\circ = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

5.

A	B	C	D
%25	%50	%10	%15

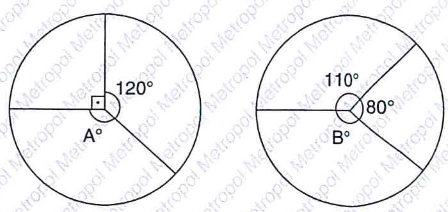
→



$\Rightarrow \frac{y^\circ - t^\circ}{z^\circ} = ?$

A) 3,4 B) 3,5 C) 3,6 D) 3,7 E) 3,8

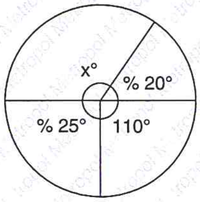
6.



$\Rightarrow A^\circ + B^\circ = ?$

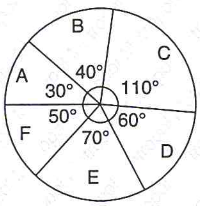
A) 300 B) 320 C) 340 D) 360 E) 380

7. $\Rightarrow x° = ?$



A) 88 B) 89 C) 90 D) 91 E) 92

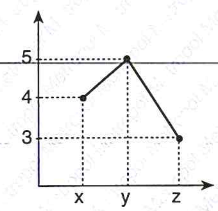
8.

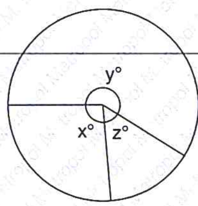


A	B	C	D	E	F
?	?	?	?	?	?

A) 3, 5, 7, 6, 8, 9
B) 3, 4, 11, 6, 7, 5
C) 3, 5, 4, 7, 6, 11
D) 3, 6, 5, 11, 7, 4
E) 6, 11, 4, 7, 3, 5

9.

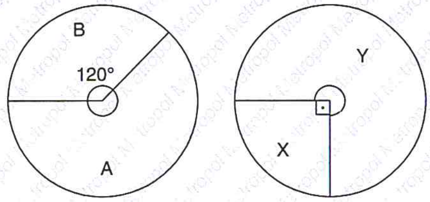




$\Rightarrow (x° + z°) - y° = ?$

A) 30° B) 45° C) 60° D) 90° E) 120°

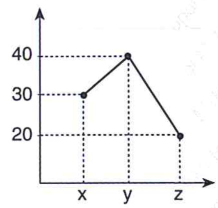
10.

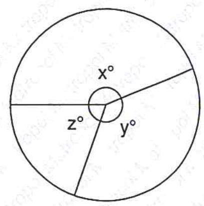


$\Rightarrow \frac{A}{B} + \frac{Y}{X} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

11.

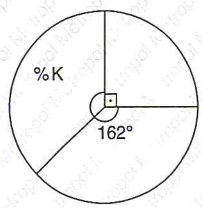




$\Rightarrow x° + y° - 2z° = ?$

A) 100° B) 120° C) 140° D) 160° E) 180°

12. $\Rightarrow K = ?$



A) 15 B) 20 C) 25 D) 30 E) 35

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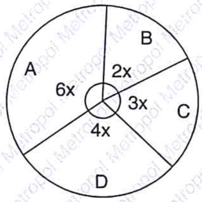
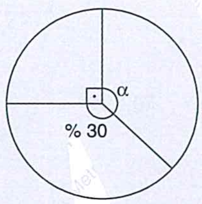
1	2	3	4	5	6	7	8	9	10	11	12
A	C	C	A	B	B	A	B	C	E	B	D

1. A – C = % m ⇒ **m = ?**



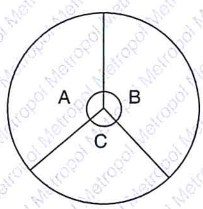
A) 10 B) 15 C) 20 D) 25 E) 30

2. ⇒ α = ?



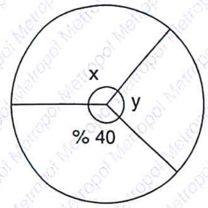
A) 154° B) 156° C) 158° D) 160° E) 162°

3. 2A + B = 400°
B + C = 220°
⇒ **A + B = ?**



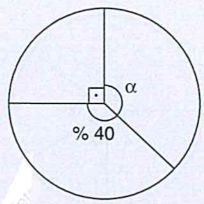
A) 240° B) 260° C) 280° D) 300° E) 320°

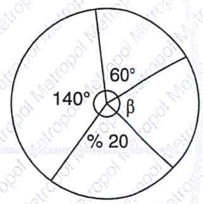
4. ⇒ **x + y = ?**



A) 213° B) 214° C) 215° D) 216° E) 217°

5.





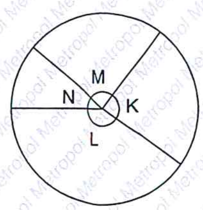
⇒ **α + β = ?**

A) 211° B) 212° C) 213° D) 214° E) 215°

6.

K	L	M	N
6	8	4	2

→

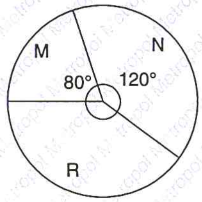


⇒ **L – K = ?**

A) 18° B) 24° C) 36° D) 42° E) 50°

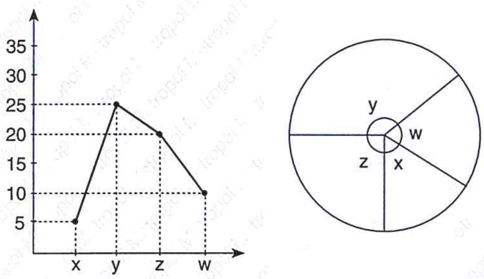
7. $M + N + R = 153$

$\Rightarrow$ **R – M = ?**



A) 34 B) 35 C) 36 D) 37 E) 38

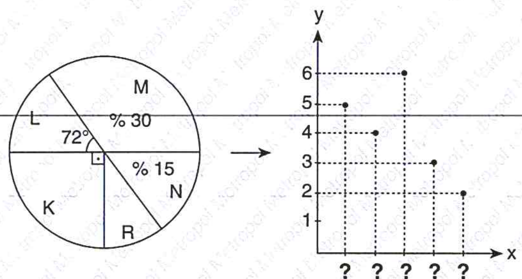
8.



$\Rightarrow$ **y – z + x + w = ?**

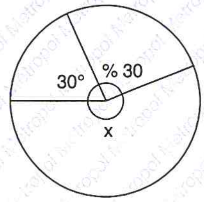
A) 100° B) 110° C) 120° D) 130° E) 140°

9.



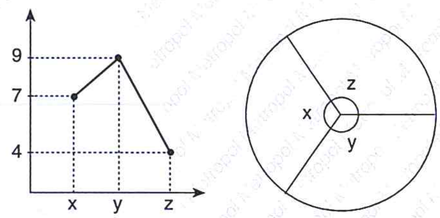
A) K, M, N, R, L B) L, M, K, R, N C) L, K, M, R, N D) K, L, M, N, R E) M, K, L, N, R

10. $\Rightarrow$ **x = ?**



A) 220° B) 221° C) 222° D) 223° E) 224°

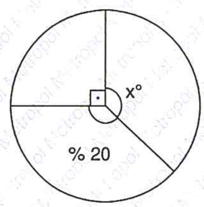
11.



$\Rightarrow$ **y + z = ?**

A) 234° B) 235° C) 236° D) 237° E) 238°

12. $\Rightarrow$ **x = ?**



A) 194° B) 195° C) 196° D) 197° E) 198°

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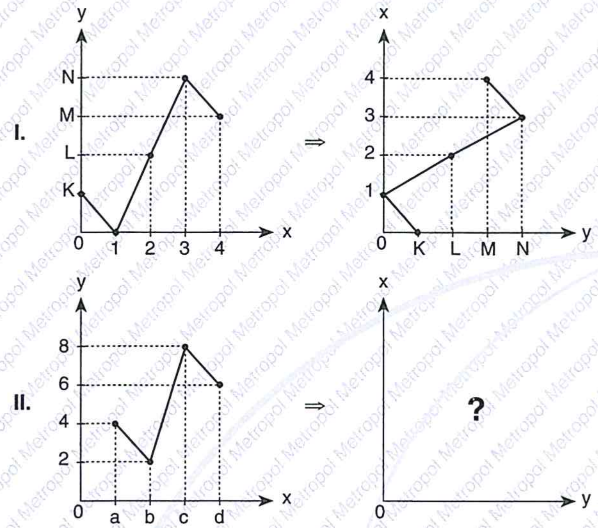
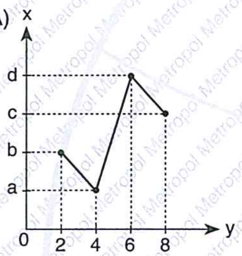
1	2	3	4	5	6	7	8	9	10	11	12
C	E	B	D	D	C	A	C	D	C	A	E

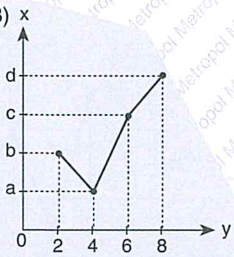
1.



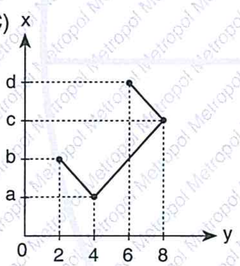
A)



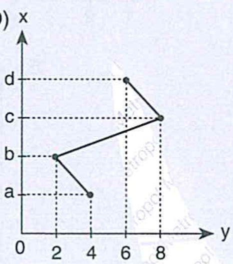
B)



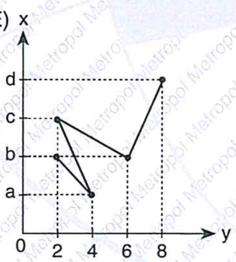
C)



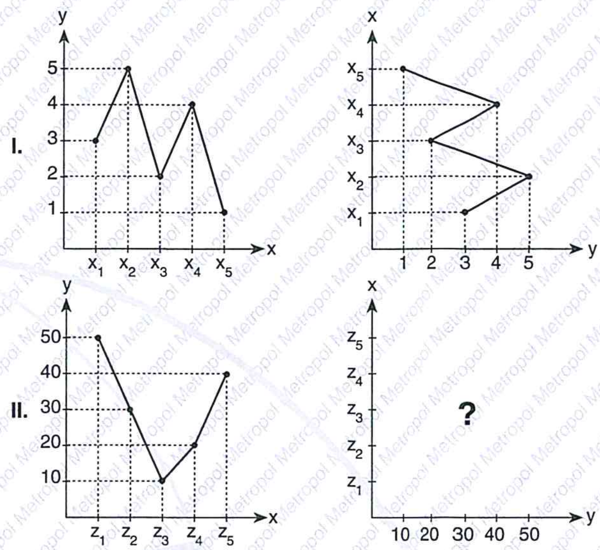
D)



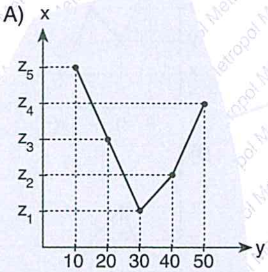
E)



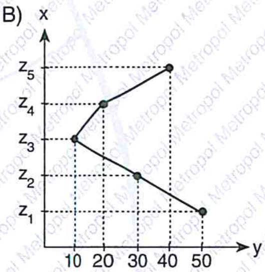
2.



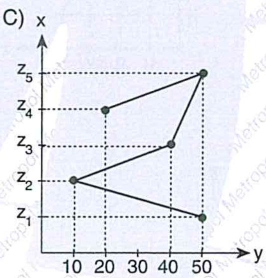
A)



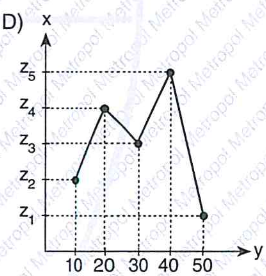
B)



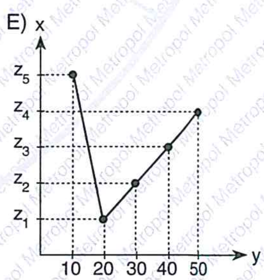
C)



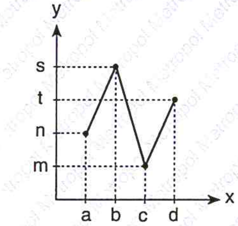
D)



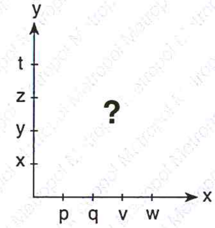
E)



3.

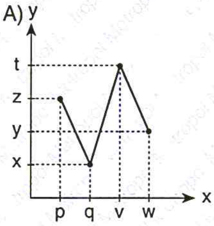


P_1 (a, n)
P_2 (b, s)
P_3 (c, m)
P_4 (d, t)

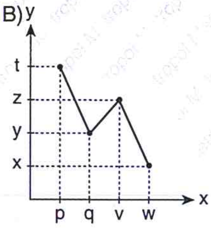


P_1 (p, z)
P_2 (q, y)
P_3 (v, x)
P_4 (w, t)

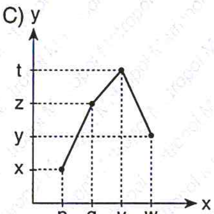
A)



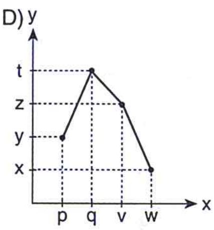
B)



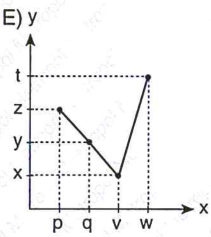
C)



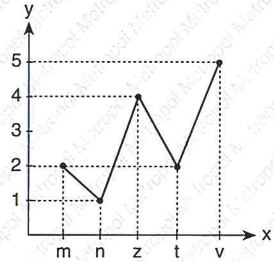
D)



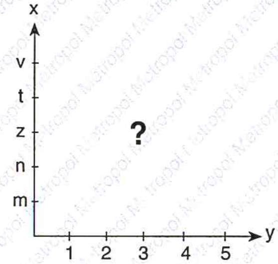
E)



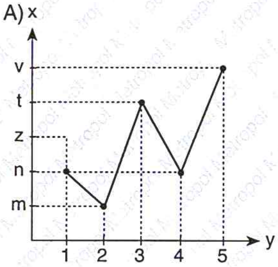
4.



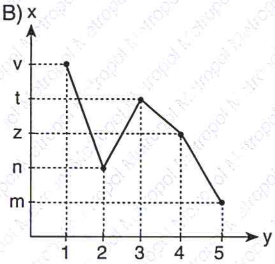
⇒



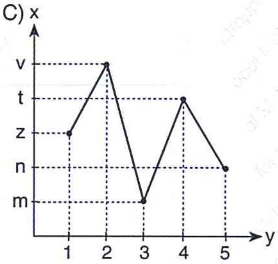
A)



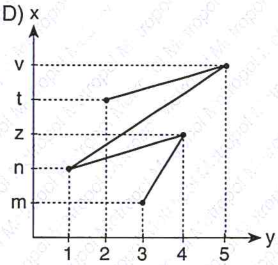
B)



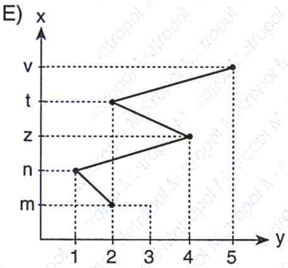
C)



D)



E)



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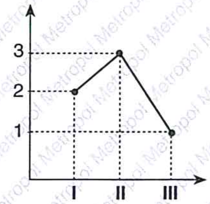
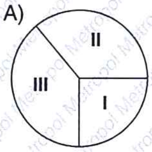
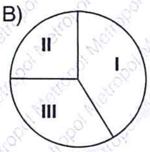
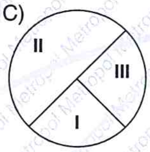
1	2	3	4
D	B	E	E

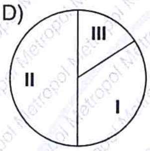
1.

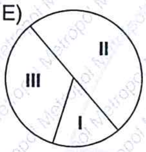


A)


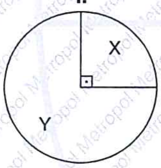
B)


C)


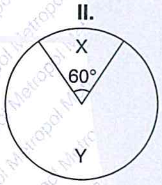
D)


E)


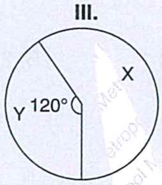
2.

I.


Y − X = a

II.


Y − X = b

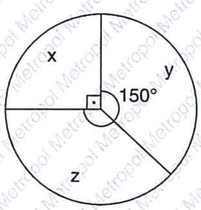
III.


Y − X = c

$\Rightarrow$ **a + b + c = ?**

A) 300° B) 320° C) 340° D) 360° E) 380°

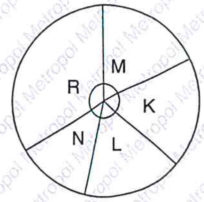
3. $\Rightarrow$ **x : y : z = ?**



A) 5 : 4 : 3 B) 5 : 3 : 4 C) 4 : 3 : 5 D) 3: 4 : 5 E) 3 : 5 : 4

4.

K	L	M	N	R
21	15	24	12	36

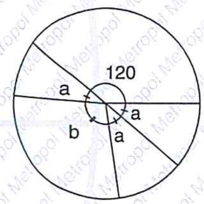


$\Rightarrow$ **R − M + L = ?**

A) 30° B) 45° C) 60° D) 90° E) 120°

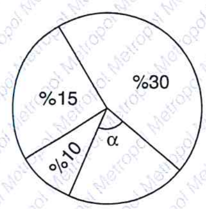
5. b = 2·a

$\Rightarrow$ **b = ?**



A) 108° B) 96° C) 72° D) 64° E) 36°

6. α = ?

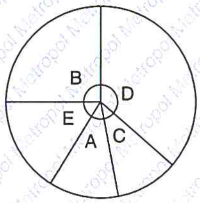


A) 160° B) 162° C) 170° D) 175° E) 180°

7.

	A	B	C	D	E
%	20	25	10	35	10

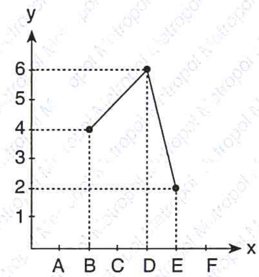
→



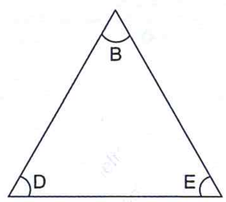
⇒ **D – B = ?**

A) 18° B) 36° C) 30° D) 45° E) 60°

8.



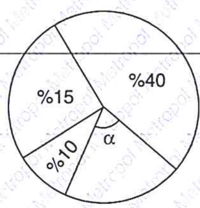
→



⇒ **B + D – E = ?**

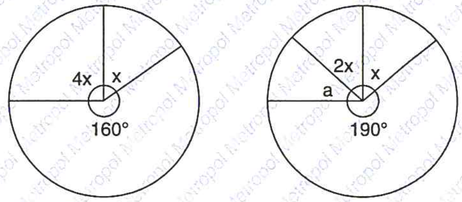
A) 90° B) 100° C) 120°
D) 150° E) 180°

9. ⇒ **x + y = ?**



A) 113° B) 120 C) 126°
D) 130° E) 150°

10.



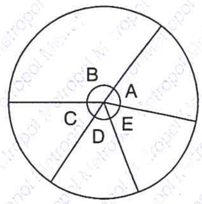
⇒ **a = ?**

A) 10° B) 20° C) 30° D) 40° E) 50°

11.

A	B	C	D	E
4a	5a	a	2a	3a

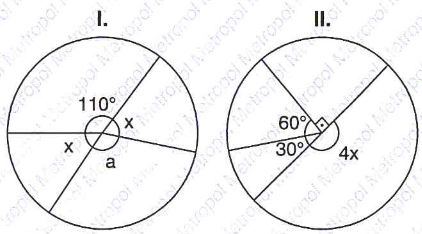
→



⇒ $\dfrac{\mathbf{A+B+C}}{\mathbf{D+E}} = ?$

A) 1 B) 2 C) $\frac{3}{2}$ D) $\frac{4}{3}$ E) $\frac{5}{2}$

12.



⇒ **a = ?**

A) 160° B) 150° C) 140°
D) 130° E) 120°

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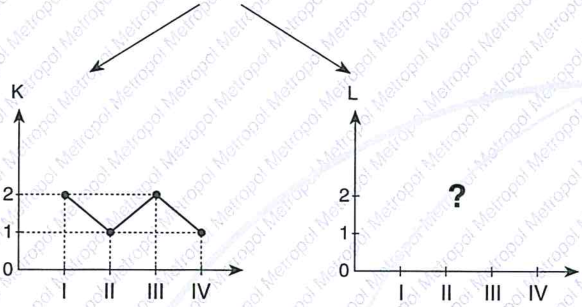
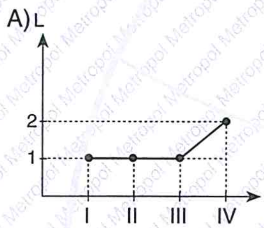
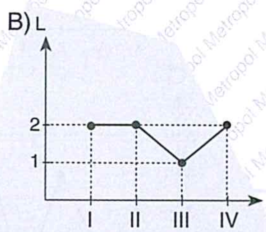
1	2	3	4	5	6	7	8	9	10	11	12
D	A	E	D	B	B	B	C	C	E	B	A

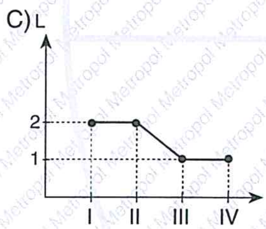
1.

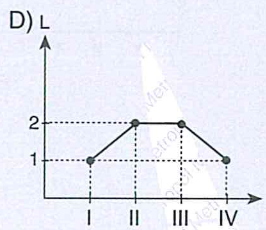
I	K	K	L	L	M
II	M	M	K	L	L
III	M	K	L	K	M
IV	M	K	L	M	L

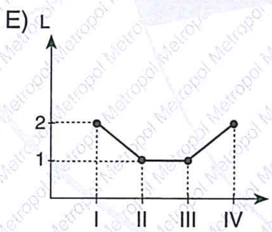


A) 

B) 

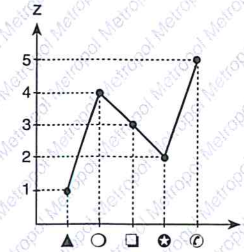
C) 

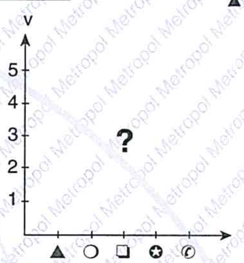
D) 

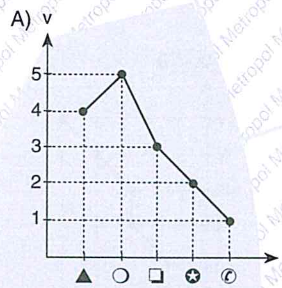
E) 

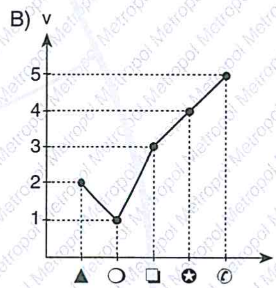
2.

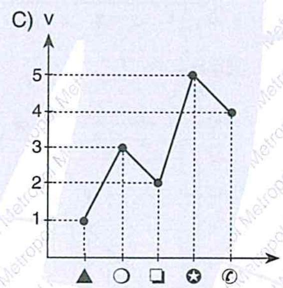
	x	y	z	t	v
▲	2	3	1	5	4
○	3	2	4	1	5
❑	5	1	3	4	2
✪	4	5	2	3	1
✆	1	4	5	2	3

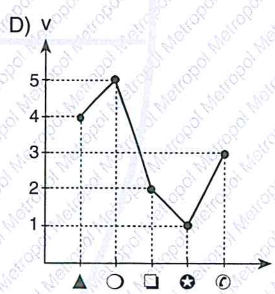


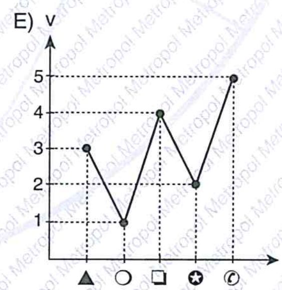


A) 

B) 

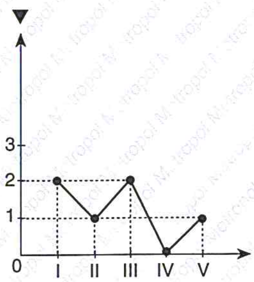
C) 

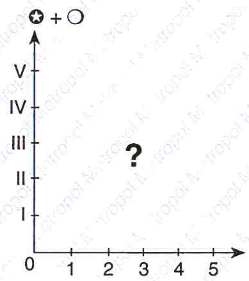
D) 

E) 

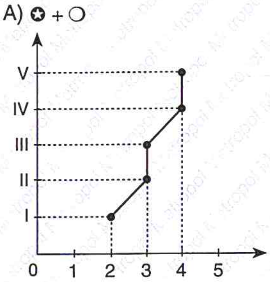
3.

I	▼	❑	○	▼	✪	❑
II	✪	❑	▼	✪	○	❑
III	○	✪	❑	▼	✪	▼
IV	✪	❑	✪	❑	✪	○
V	○	○	○	✪	❑	▼





A) ✪ + ○



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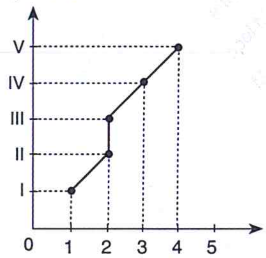
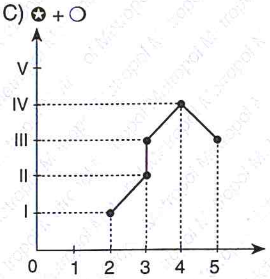


C) ✪ + ○



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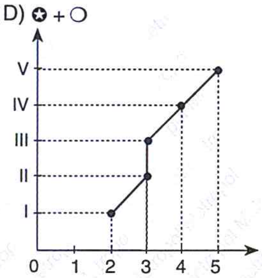
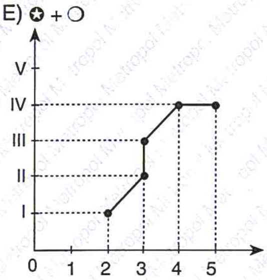
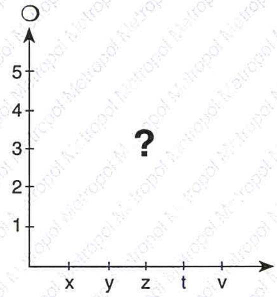


E) ✪ + ○

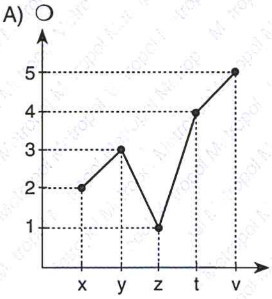


4.

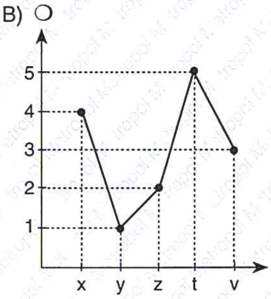
	x	y	z	t	v
▲	4	3	2	1	5
○	5	2	4	3	1
❑	3	4	1	2	5
✪	2	5	3	4	1



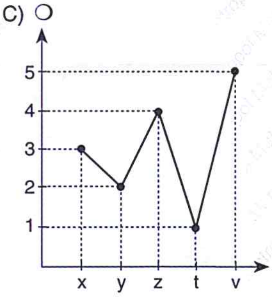
A) ○



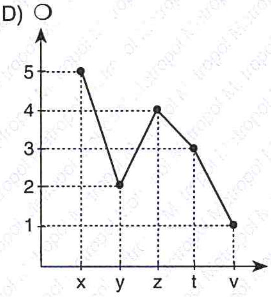
B) ○



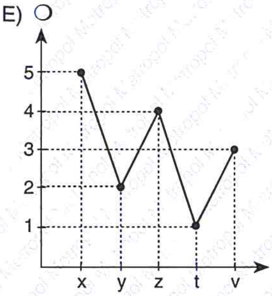
C) ○



D) ○



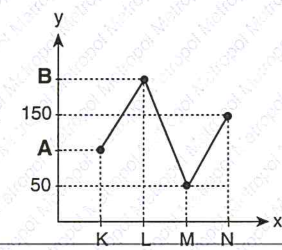
E) ○



5.

K	4
L	8
M	2
N	6

→



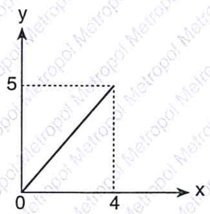
⇒ A + B = ?

A) 200 B) 250 C) 300 D) 350 E) 400

YANITLAR / ANSWERS

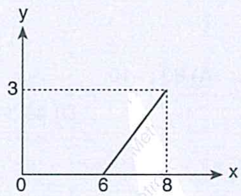
1	2	3	4	5
B	D	A	D	C

1. **I.** $x = 48 \Rightarrow y = K$
II. $y = 65 \Rightarrow x = L$
$\Rightarrow$ **K; L = ?**



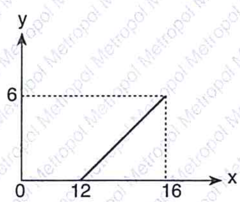
A) 60 ; 52 B) 60 ; 48 C) 55 ; 52 D) 55 ; 46 E) 50 ; 48

2. **I.** $x = 28 \Rightarrow y = K$
II. $y = 39 \Rightarrow x = L$
$\Rightarrow$ **K ; L = ?**



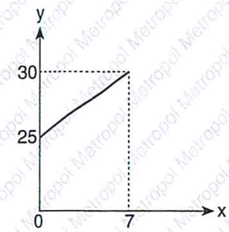
A) 36 ; 32 B) 36 ; 30 C) 33 ; 30 D) 39 ; 34 E) 33 ; 32

3. **I.** $x = 72 \Rightarrow y = K$
II. $y = 54 \Rightarrow x = L$
$\Rightarrow$ **K ; L = ?**



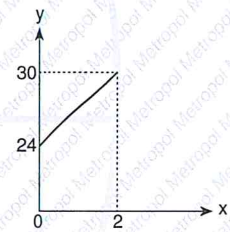
A) 75 ; 48 B) 90 ; 46 C) 105 ; 44 D) 90 ; 48 E) 105 ; 46

4. **I.** $x = 56 \Rightarrow y = K$
II. $y = 75 \Rightarrow x = L$
$\Rightarrow$ **K; L = ?**



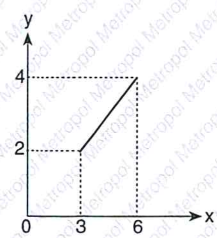
A) 60 ; 63 B) 65 ; 63 C) 65 ; 70 D) 60 ; 77 E) 65 ; 77

5. **I.** $x = 32 \Rightarrow y = K$
II. $y = 72 \Rightarrow x = L$
$\Rightarrow$ **K; L = ?**



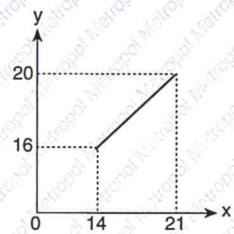
A) 120 ; 18 B) 120 ; 16 C) 118 ; 18 D) 116 ; 16 E) 118 ; 16

6. **I.** $x = 27 \Rightarrow y = K$
II. $y = 24 \Rightarrow x = L$
$\Rightarrow$ **K; L = ?**



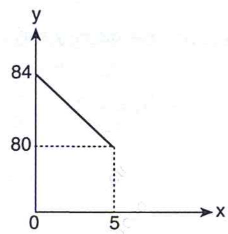
A) 18 ; 34 B) 20 ; 36 C) 20 ; 34 D) 18 ; 36 E) 22 ; 32

7. **I.** x = 63 ⇒ y = K
II. y = 48 ⇒ x = L
⇒ **K; L = ?**



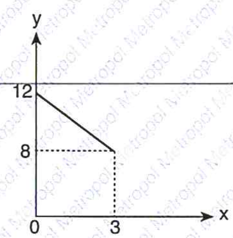
A) 44 ; 68 B) 46 ; 70 C) 46 ; 72 D) 42 ; 68 E) 44 ; 70

8. **I.** x = 35 ⇒ y = K
II. y = 24 ⇒ x = L
⇒ **K; L = ?**



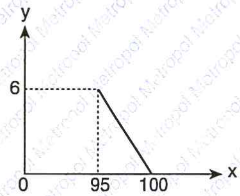
A) 56 ; 75 B) 56 ; 70 C) 54 ; 80 D) 54 ; 70 E) 58 ; 75

9. **I.** x = 36 ⇒ y = K
II. y = –20 ⇒ x = L
⇒ **K; L = ?**



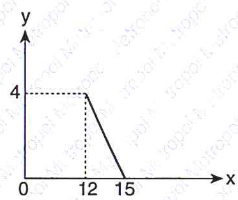
A) –34 ; 22 B) –36 ; 26 C) –34 ; 24 D) –32 ; 26 E) –36 ; 24

10. **I.** x = 35 ⇒ y = K
II. y = 54 ⇒ x = L
⇒ **K; L = ?**



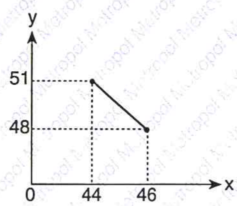
A) 78 ; 50 B) 65 ; 50 C) 78 ; 55 D) 91 ; 60 E) 65 ; 55

11. **I.** x = –21 ⇒ y = K
II. y = 32 ⇒ x = L
⇒ **K; L = ?**



A) 60 ; –10 B) 48 ; –9 C) 60 ; –8 D) 48 ; –8 E) 36 ; –9

12. **I.** x = 18 ⇒ y = K
II. y = 12 ⇒ x = L
⇒ **K; L = ?**



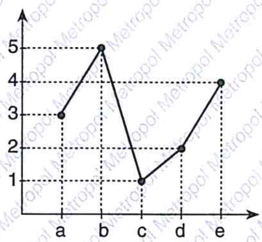
A) 94 ; 72 B) 96 ; 72 C) 94 ; 68 D) 90 ; 70 E) 98 ; 68

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9	10	11	12
A	E	D	C	B	D	E	A	E	C	B	D

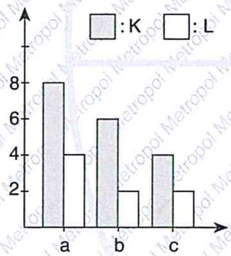
1. $a + b + c + d + e = 240$

$\Rightarrow$ **$2e + 3b - d = ?$**

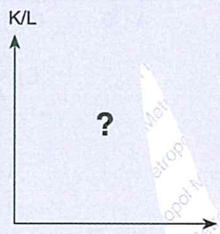


A) 334 B) 336 C) 338 D) 340 E) 344

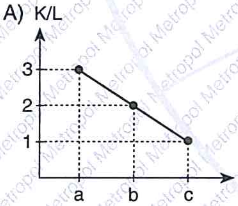
2.



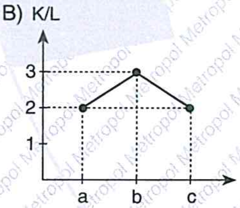
$\Rightarrow$



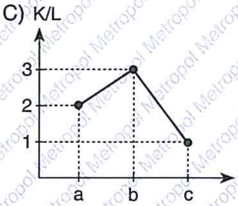
A)



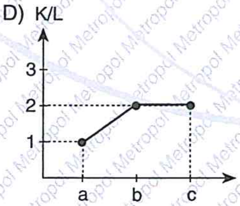
B)



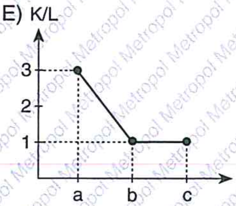
C)



D)

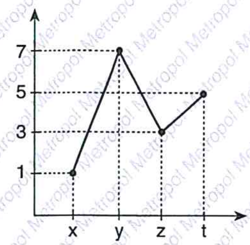


E)



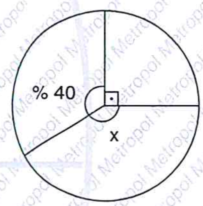
3. $x + y + z + t = 384$

$\Rightarrow$ **$t - z = ?$**



A) 24 B) 32 C) 48 D) 64 E) 72

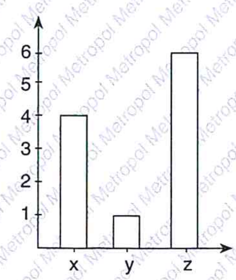
4. $\Rightarrow$ **$x = ?$**



A) 126° B) 123° C) 130° D) 132° E) 134°

5. $x + y + z = 44$

$\Rightarrow$ **$x; y; z = ?$**

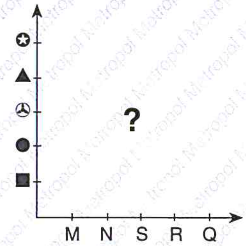


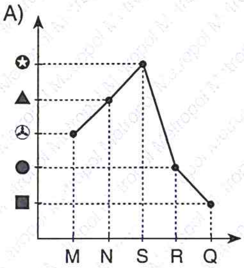
A) 16 ; 4 ; 24 B) 16 ; 2 ; 28 C) 20 ; 6 ; 24 D) 18 ; 4 ; 24 E) 18 ; 4 ; 28

6.

	M	N	S	R	Q
▲		X			
■	X				
●				X	
✪					X
✇			X		

⇒



A)


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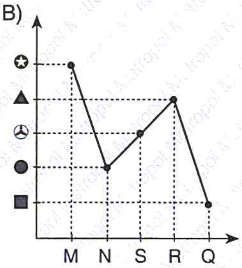

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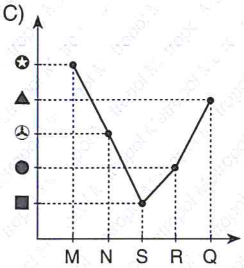

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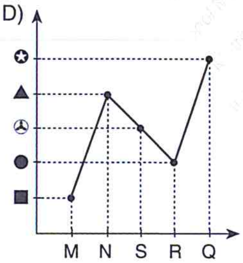
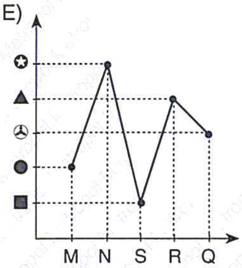
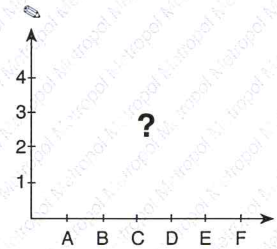


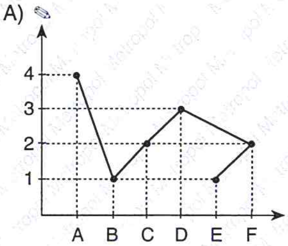
E)


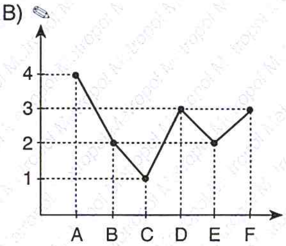
7.

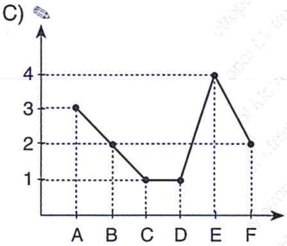
A	B	C	D	E	F
✎	❑	●	✎	❑	✎
●	●	❑	●	✎	❑
✎	✎	❑	❑	●	●
✎	❑	●	✎	●	●
●	✎	✎	❑	✎	❑
✎	●	●	✎	●	❑

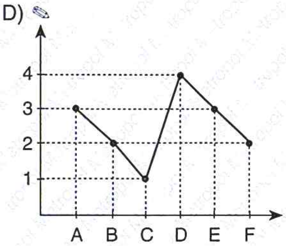
⇒

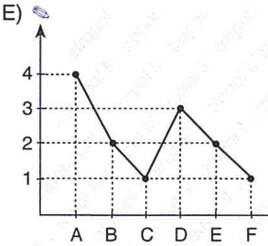


A)


B)


C)


D)


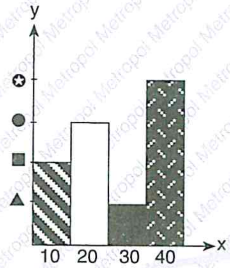
E)


YANITLAR / ANSWERS

1	2	3	4	5	6	7
B	B	C	A	A	D	E

1. ▲ + ■ + ● + ✪ = 5000

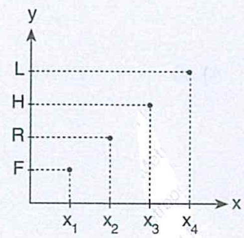
⇒ ● − ■ = ?



A) 400 B) 500 C) 600 D) 700 E) 800

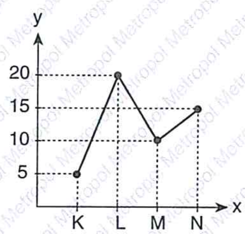
2. F = 18k , H = 36k
L = 48k , R = 24k,
F + R = 126

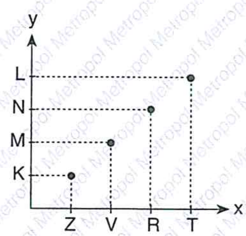
⇒ $x_1 + x_2 + x_4 = ?$



A) 210 B) 240 C) 270 D) 300 E) 330

3.



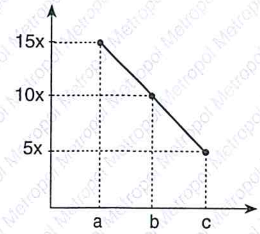


T + V = 24 ⇒ **R − Z = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

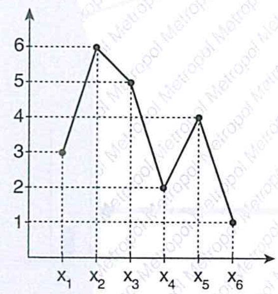
4. a − b + c = 1200

⇒ **a + b + c = ?**



A) 3000 B) 3200 C) 3400 D) 3600 E) 3800

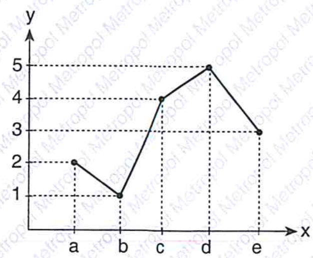
5.



$$\Rightarrow \frac{3x_6 - 2x_5 + 5x_1 + 5x_4}{x_3} = ?$$

A) 4 B) 6 C) 8 D) 10 E) 12

6. $2a + 3b + c^2 - e^3 = ?$

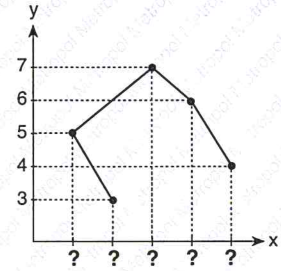


A) −1 B) −2 C) −3 D) −4 E) −5

7.

K	35
L	25
M	15
N	20
R	30

→



A) L K M N R

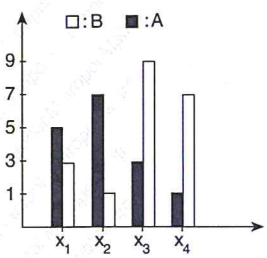
B) M K R N L

C) N R K M L

D) M K L N R

E) L M K R N

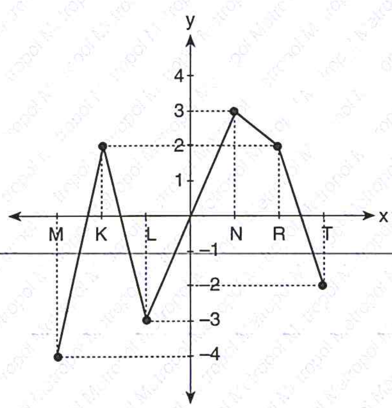
8.



$$\Rightarrow \frac{Ax_1 + Bx_2 - Ax_3 + Bx_4 - Ax_4}{Bx_1} = ?$$

A) 1 B) 2 C) 3 D) 4 E) 5

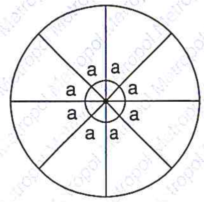
9.



$\Rightarrow$ **R + N – M + L – K – T = ?**

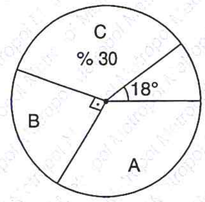
A) 4 B) 5 C) 6 D) 7 E) 8

10. $\Rightarrow$ **a = ?**



A) 30 B) 45 C) 60 D) 90 E) 120

11. $\Rightarrow$ **A = % ?**

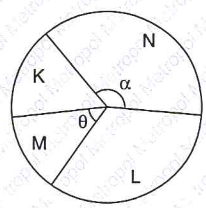


A) 30 B) 35 C) 40 D) 45 E) 50

12.

K	20
L	35
M	15
N	50

→



$\Rightarrow \alpha - \theta = ?$

A) 90 B) 95 C) 100 D) 105 E) 110

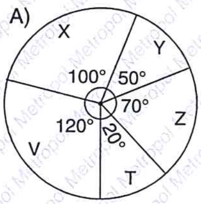
YANITLAR / ANSWERS

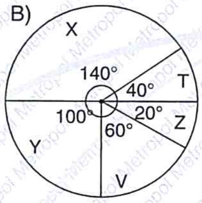
1	2	3	4	5	6	7	8	9	10	11	12
B	C	C	D	A	D	E	C	C	B	C	D

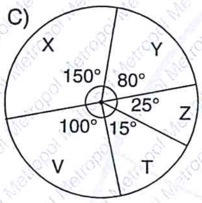
1.

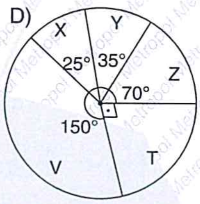
X	Y	Z	T	V
7	5	1	2	3

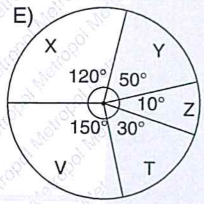
→

A)


B)


C)


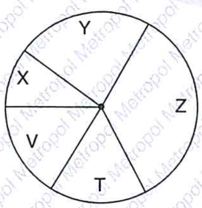
D)


E)


2.

X	Y	Z	T	V
2	6	8	5	3

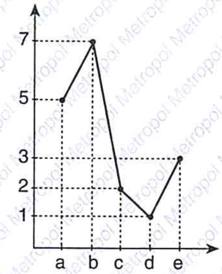
→



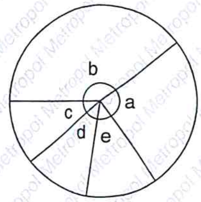
Z = % a , T = % b, V = % c $\Rightarrow$ **a + b + c = ?**

A) $\frac{100}{7}$ B) $\frac{100}{3}$ C) $\frac{200}{7}$ D) 50 E) $\frac{200}{3}$

3.



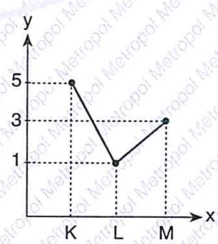
→



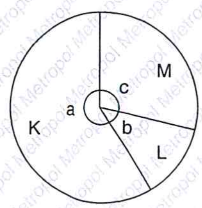
$\Rightarrow \mathbf{\frac{b-e}{d} = ?}$

A) 2 B) 4 C) 6 D) 8 E) 10

4.



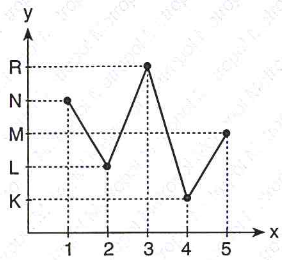
→



$\Rightarrow \mathbf{\frac{a+c}{b} = ?}$

A) 6 B) 7 C) 8 D) 9 E) 10

5.

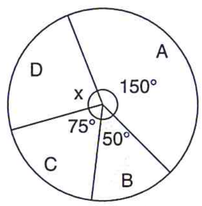


K + L + M + N + R = 225 ⇒ **M – N + K = ?**

A) 90 B) 105 C) 120 D) 135 E) 150

6. A + B + C + D = 1800

⇒ **x = ?**

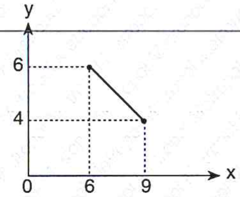


A) 470 B) 425 C) 430 D) 435 E) 440

7. **I.** x = –24 ⇒ y = K

II. y = –20 ⇒ x = L

⇒ **K; L = ?**

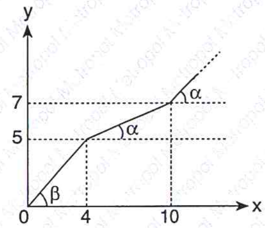


A) 26 ; 45 B) 27 ; 46 C) 25 ; 46 D) 25 ; 45 E) 26 ; 44

8. **I.** x = 76 ⇒ y = K

II. y = 41 ⇒ x = L

⇒ **K; L = ?**

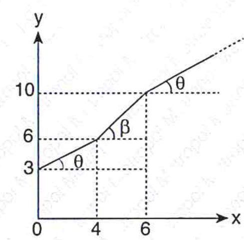


A) 28; 112 B) 29; 112 C) 29; 111 D) 28; 113 E) 30; 111

9. **I.** x = 38 ⇒ y = K

II. y = 64 ⇒ x = L

⇒ **K; L = ?**

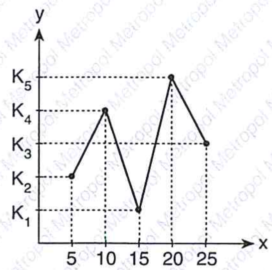


A) 34 ; 80 B) 32 ; 76 C) 32 ; 78 D) 36 ; 80 E) 34 ; 78

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8	9
B	E	B	C	C	B	A	B	E

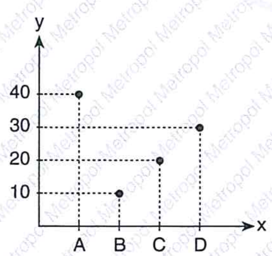
1.



$\Rightarrow K_{2x} + K_{5x} + K_{3x} - K_{4x} - K_{1x} = ?$

A) 20 B) 25 C) 30 D) 35 E) 40

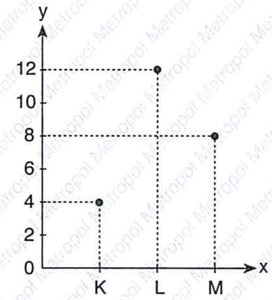
2.



$\Rightarrow (x_A - x_B)\cdot(x_C - x_D) = ?$

A) –300 B) –200 C) 200 D) 300 E) 400

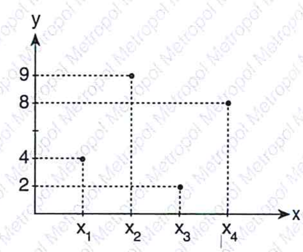
3.



$\Rightarrow [2(x_K + x_L] - x_M = ?$

A) 18 B) 20 C) 22 D) 24 E) 26

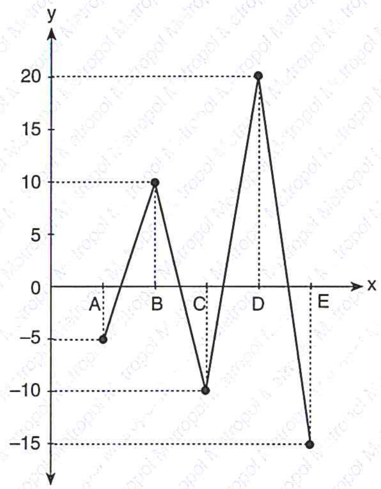
4.



$\Rightarrow \sqrt{\left(\sqrt{x_2} + \sqrt[3]{x_4} + \sqrt{x_1} + x_3\right)} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

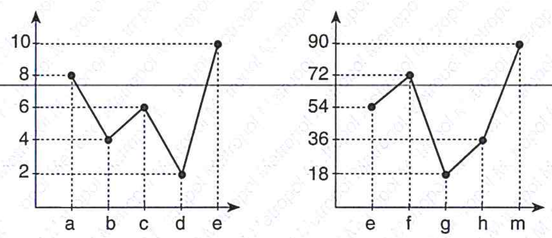
5.



$\Rightarrow$ **A + B − C − D − E = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

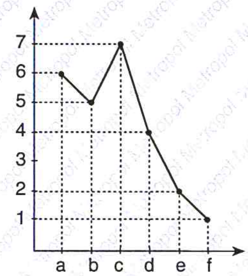
6.



a = f $\Rightarrow$ **c = ?**

A) e B) f C) g D) h E) m

7.



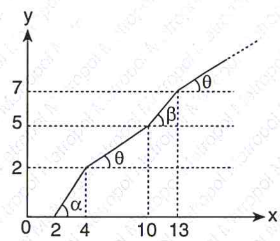
a + b + c + d + e + f = 150 $\Rightarrow$ **a = ?**

A) 24° B) 30° C) 36° D) 42° E) 48°

8. **I.** x = 85 $\Rightarrow$ y = K

II. y = 61 $\Rightarrow$ x = L

$\Rightarrow$ **K; L = ?**



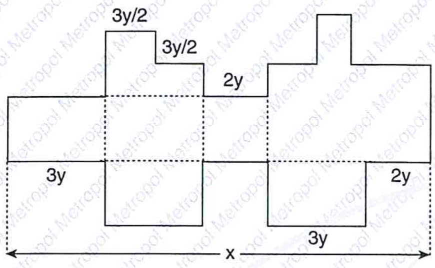
A) 41; 121 B) 42; 122 C) 42; 123 D) 43 ; 122 E) 43 ; 121

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	A	D	C	A	A	C	E

ÇEVRE ve ALAN
PERIMETER and AREA

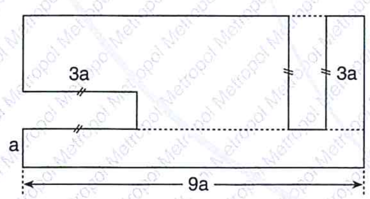
1.



⇒ **x = ? y**

A) 10
B) 11
C) 12
D) 13
E) 14

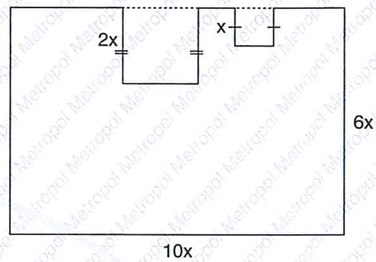
2.



⇒ **Çevre / Perimeter = ? a**

A) 34
B) 36
C) 38
D) 40
E) 42

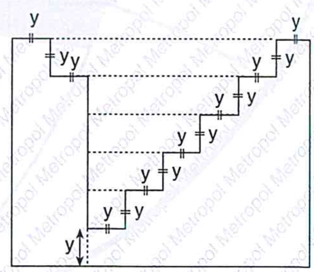
3.



⇒ **Çevre / Perimeter = ? x**

A) 34
B) 36
C) 38
D) 40
E) 42

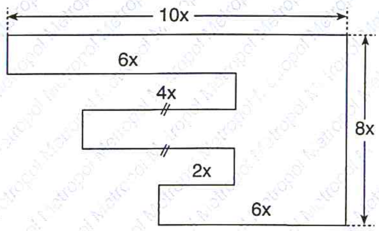
4.



⇒ **Çevre / Perimeter = ? y**

A) 38
B) 36
C) 34
D) 32
E) 30

5.



⇒ Çevre / Perimeter = ? x

A) 42

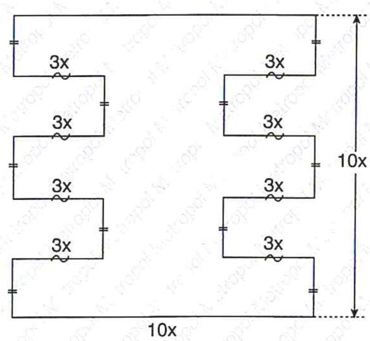
B) 44

C) 46

D) 48

E) 50

6.



⇒ Çevre / Perimeter = ? x

A) 56

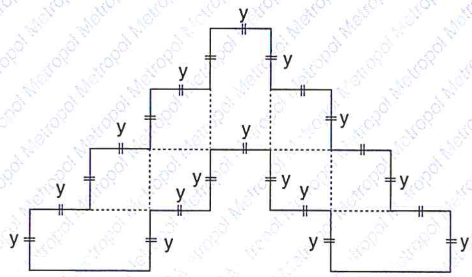
B) 58

C) 60

D) 62

E) 64

7.



⇒ Çevre / Perimeter = ? y

A) 28

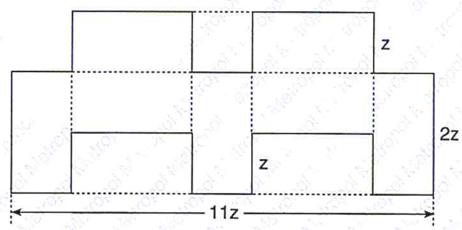
B) 26

C) 24

D) 22

E) 20

8.



⇒ Çevre / Perimeter = ? z

A) 31

B) 32

C) 33

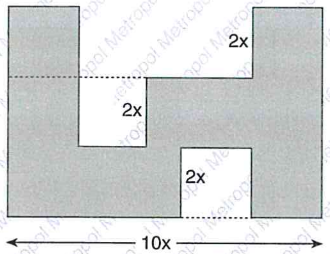
D) 34

E) 35

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
D	C	C	A	D	E	B	D

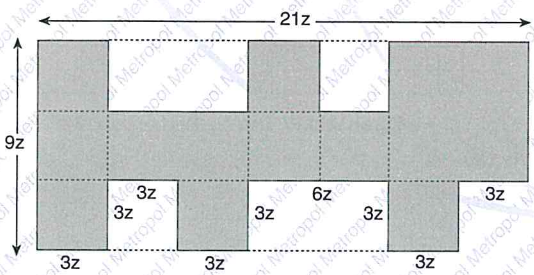
1.



⇒ **Taralı Alan / The shaded area = ? x^2**

A) 30
B) 40
C) 50
D) 60
E) 70

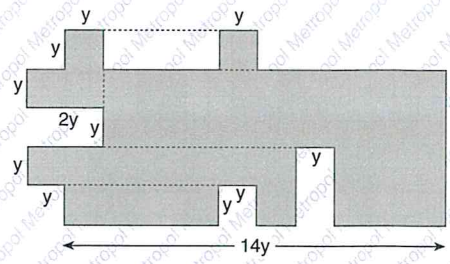
2.



⇒ **Taralı Alan / The shaded area = ? z^2**

A) 117
B) 120
C) 123
D) 126
E) 129

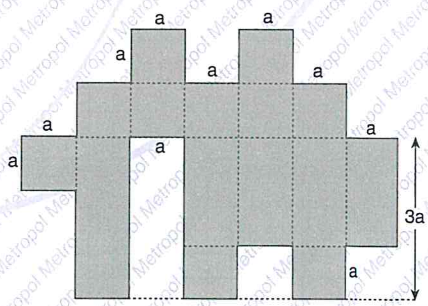
3.



⇒ **Taralı Alan / The shaded area = ? y^2**

A) 42
B) 49
C) 56
D) 63
E) 70

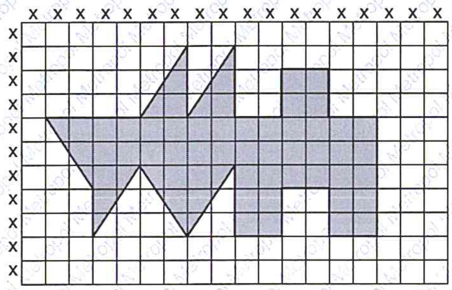
4.



⇒ **Taralı Alan / The shaded area = ? a^2**

A) 15
B) 18
C) 21
D) 24
E) 27

5.



⇒ **Taralı Alan / The shaded area = ? x^2**

A) 56

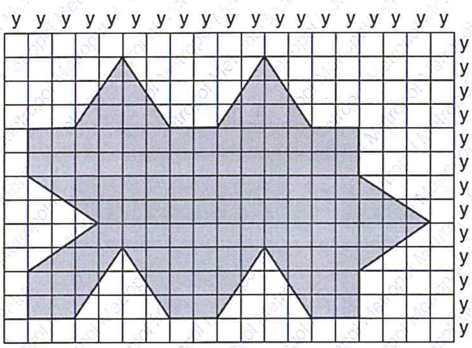
B) 58

C) 60

D) 62

E) 64

6.



⇒ **Taralı Alan / The shaded area = ? x^2**

A) 112

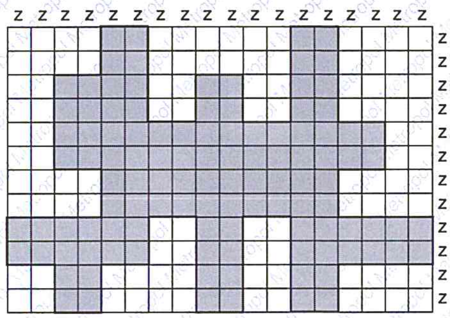
B) 113

C) 114

D) 115

E) 116

7.



⇒ **Taralı Alan / The shaded area = ? z^2**

A) 100

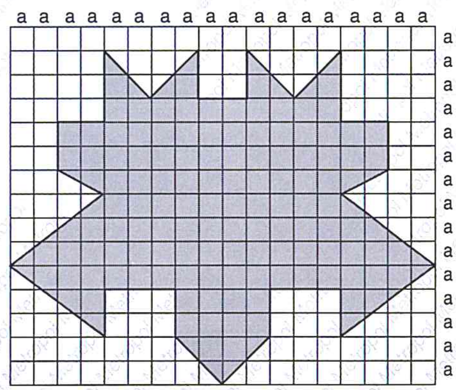
B) 104

C) 108

D) 112

E) 116

8.



⇒ **Taralı Alan / The shaded area = ? a^2**

A) 130

B) 131

C) 132

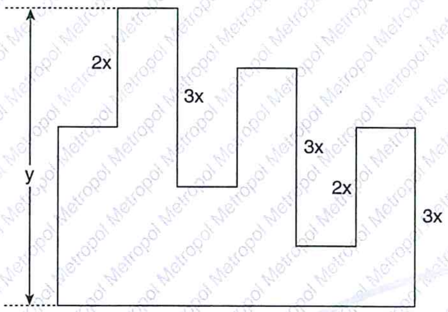
D) 133

E) 134

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	D	C	C	C	A	D	C

1.



$\Rightarrow$ **y = ? x**

A) 4

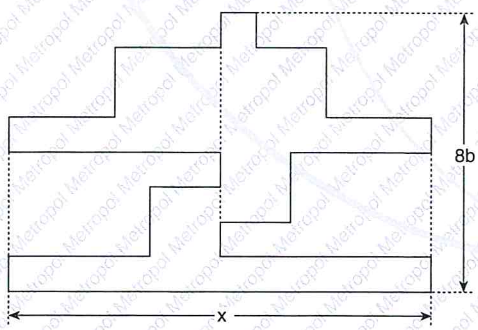
B) $\frac{9}{2}$

C) 5

D) $\frac{11}{2}$

E) 6

2.



Çevre / The perimeter = 64·b $\Rightarrow$ x = ? b

A) 8

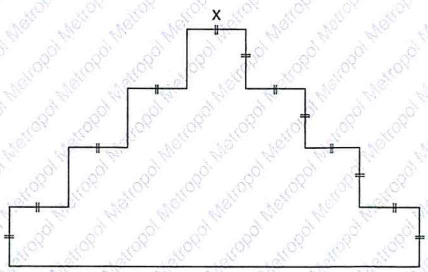
B) 12

C) 15

D) 16

E) 18

3.



$\Rightarrow$ **Çevre** / The perimeter = ? x

A) 19

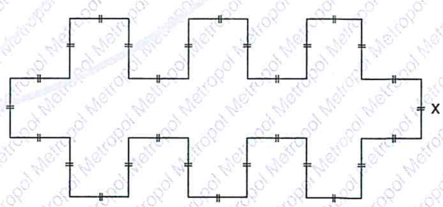
B) 20

C) 21

D) 22

E) 23

4.



$\Rightarrow$ **Çevre** / The perimeter = ? x

A) 24

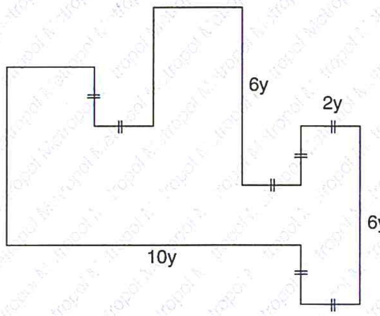
B) 26

C) 28

D) 30

E) 32

5.



⇒ **Çevre / The perimeter = ? y**

A) 50

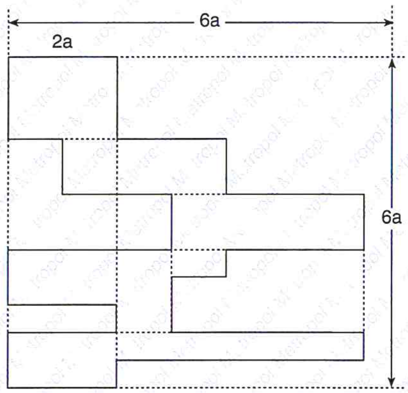
B) 52

C) 54

D) 56

E) 58

6.



⇒ **Çevre / The perimeter = ? a**

A) 38

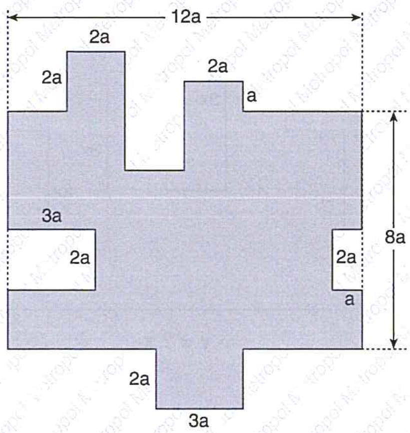
B) 40

C) 42

D) 46

E) 48

7.



⇒ **Taralı Alan / The shaded area = ? a^2**

A) 64

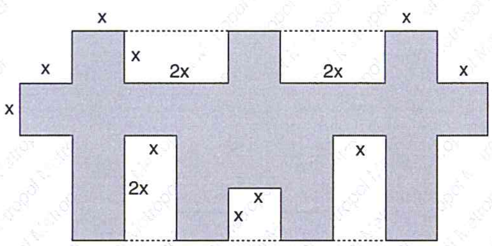
B) 72

C) 84

D) 96

E) 108

8.



⇒ **Taralı Alan / The shaded area = ? x^2**

A) 15

B) 18

C) 21

D) 24

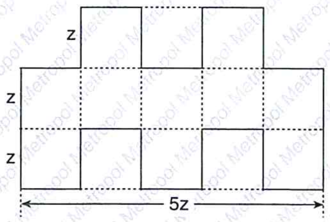
E) 27

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
E	B	D	C	B	B	D	C

METROPOL YAYINLARI • METROPOL PUBLICATIONS

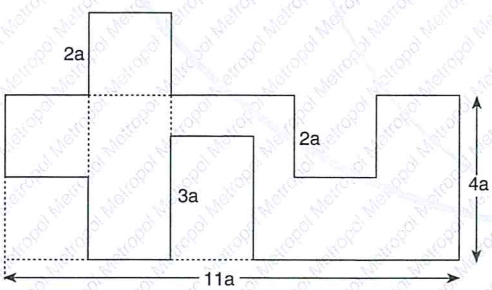
1.



⇒ **Çevre** / Perimeter = ? z

A) 20
B) 22
C) 24
D) 26
E) 28

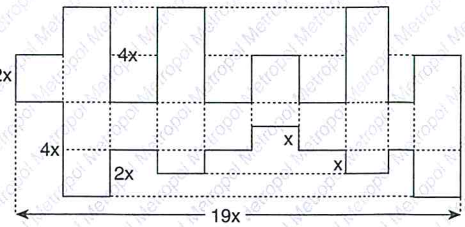
2.



⇒ **Çevre** / Perimeter = ? a

A) 40
B) 42
C) 44
D) 46
E) 48

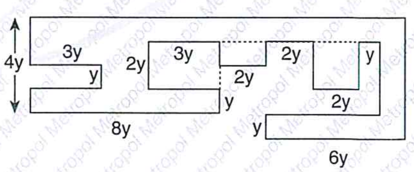
3.



⇒ **Çevre** / Perimeter = ? a

A) 84
B) 86
C) 88
D) 90
E) 92

4.

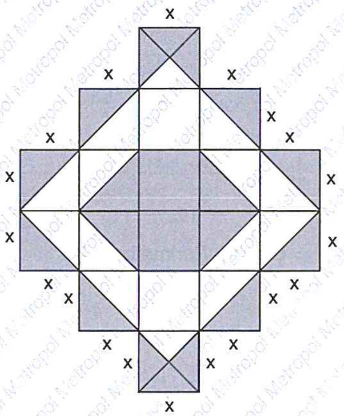


⇒ **Çevre** / Perimeter = ? y

A) 72
B) 73
C) 74
D) 75
E) 76

METROPOL YAYINLARI • METROPOL PUBLICATIONS

5.



⇒ **Taralı Alan /** The shaded area **= ? x^2**

A) 8,5

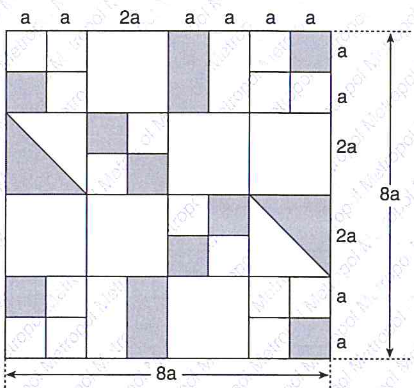
B) 9

C) 9,5

D) 10

E) 10,5

6.



⇒ **Taralı Alan /** The shaded area **= ? a^2**

A) 8

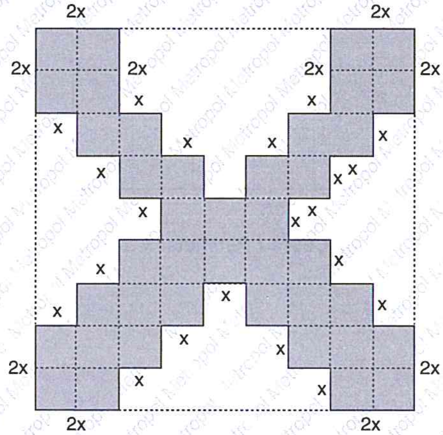
B) 12

C) 16

D) 20

E) 24

7.



⇒ **Taralı Alan /** The shaded area **= ? x^2**

A) 40

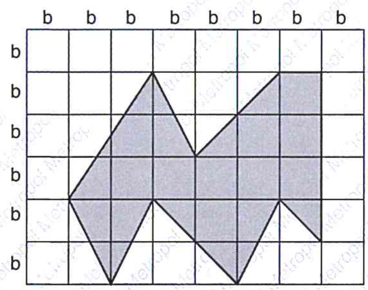
B) 42

C) 44

D) 46

E) 48

8.



⇒ **Taralı Alan /** The shaded area **= ? b^2**

A) 16,5

B) 17

C) 17,5

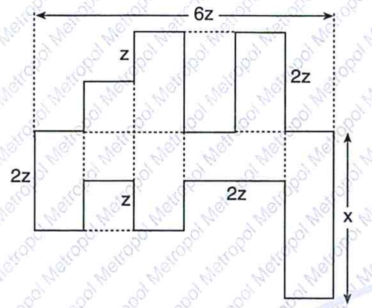
D) 18

E) 18,5

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
B	C	C	E	C	C	A	C

1.



Çevre / Perimeter = 29·z ⇒ **x = ? z**

A) $\frac{5 \cdot z}{2}$

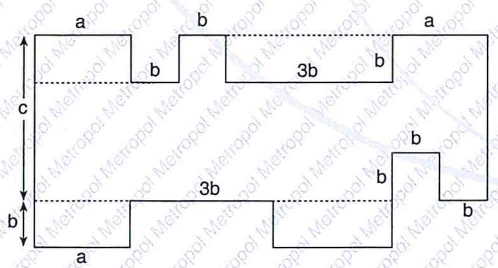
B) $\frac{14 \cdot z}{5}$

C) 5·z

D) $\frac{7 \cdot z}{2}$

E) 4·z

2.



c = 2·a = 4·b ⇒ **Çevre /** Perimeter = **?**

A) 6c

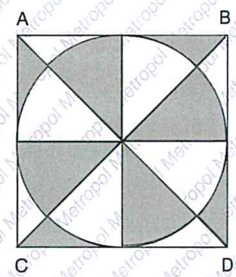
B) 16a

C) 18a

D) 32b

E) 40b

3.



Yukarıdaki Şekilde ABCD kare ve |AB| = 8 cm ise taralı alan kaç cm² dir?

If ABCD is a square and |AB| = 8 cm, what is the area of the shaded region?

A) 24

B) 32

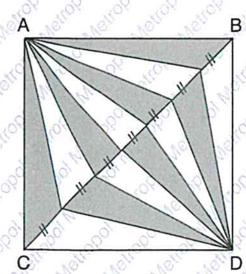
C) 48

D) 50

E) 52

4. **Yandaki şekilde ABCD karedir. |AB| = 6 cm ise taralı alan kaç cm² dir?**

ABCD is a square,
|AB| = 6 cm. What's the area of the shaded region?



A) 18

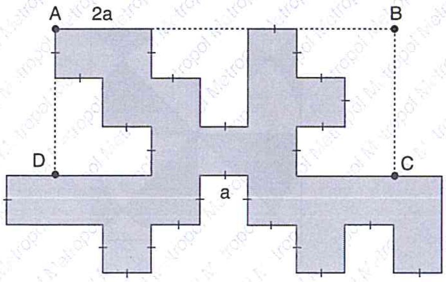
B) 20

C) 24

D) 28

E) 36

5.



$A(ABCD) = 21a^2 \Rightarrow$ **Taralı Alan / The shaded area = ? a^2**

A) 18

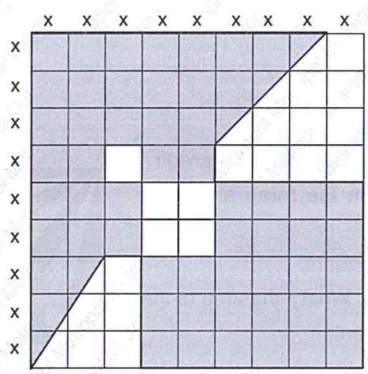
B) 21

C) 24

D) 27

E) 31

6.



$\Rightarrow$ **Taralı Alan / The shaded area = ? x^2**

A) 57,5

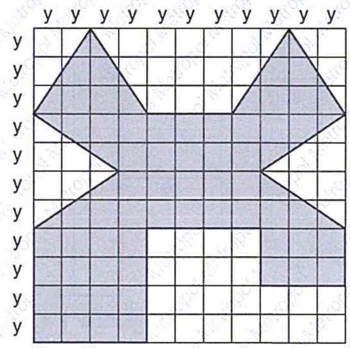
B) 58

C) 58,5

D) 59

E) 59,5

7.



$\Rightarrow$ **Taralı Alan / The shaded area = ? y^2**

A) 55

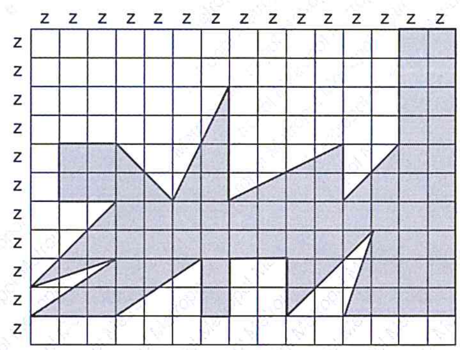
B) 63

C) 66

D) 72

E) 77

8.



$\Rightarrow$ **Taralı Alan / The shaded area = ? z^2**

A) 60

B) 66

C) 72

D) 78

E) 84

YANITLAR / ANSWERS

1	2	3	4	5	6	7	8
A	C	B	A	B	C	C	C