

VORWORT

Liebe Schülerinnen und Schüler,

Die Metropol Bildungsinstitution ist eine internationale Kette, die seit 1995 mit Dienstleistungen wie Schulungen, Publikationen und Beratungen Schüler/-innen auf die Studienberechtigungsprüfung vorbereitet und sowohl in der Türkei als auch in verschiedenen Ländern der Welt Niederlassungen und Vertretungen besitzt.

Unsere Institutionen unterstützen Schüler/-innen türkischer und ausländischer Staatsbürgerschaft, die sich auf die Prüfungen zur Aufnahme von ausländischen Schülern/-innen alias Prüfung für auslandsstämmige Schüler/-innen (YÖS), die von den Universitäten in der Türkei veranstaltet werden, vorbereiten und an diesen Universitäten studieren möchten.

Die von renommierten Universitäten angebotene Prüfung (YÖS) ist in zwei Bereichen erfolgreich zu bestehen. Der erste Teil betrifft die Fähigkeit Grundlagenkenntnisse zu erwerben, wobei der zweite Teil die Sprachkenntnisse im Türkischen prüft.

Mit Hilfe dieser Eignungstests werden die türkischen Sprachkenntnisse der Schüler/-innen ermittelt, dabei haben sie keinen Einfluss auf die Platzierungspunkte. Ausschlaggebend für die Platzierung der Bewerber/innen an den Universitäten ist der Grundlernfähigkeitstest, bei dem die allgemeine Mindestpunktzahl der Prüfung und die erforderliche Punktzahl des erstrebten Studienfachs zu erreichen ist.

Dieser Test beinhaltet Fragen zur allgemeinen Fähigkeit (IQ), Mathematik und Geometrie. In Anbetracht der Tatsache, dass der Mathematik 40% der Prüfung darstellt, ist es für Sie von Vorteil den Fokus auf diesen Bereich zu legen, um unter die Besten zu kommen.

Um an den renommierten Hochschulen der Türkei studieren zu können, empfehlen wir Ihnen, an unseren YÖS-Vorbereitungskursen teilzunehmen und sich von unseren kompetenten und erfahrenen Lehrkräften, die die Publikationen vorbereitet haben, unterstützen zu lassen.

Wir wünschen allen YÖS Kandidaten viel Erfolg!

ВСТУПЛЕНИЕ

Уважаемые студенты!

Образовательные учреждения Metropol – это международная сеть учебных заведений, которая с 1995 года по сегодняшний день предоставляет для студентов, готовящихся к вступительным экзаменам в университет, поддержку в виде курсов, публикаций и консультаций. Образовательные учреждения Metropol имеют филиалы и представительства в Турции и в разных странах мира.

Наши учреждения оказывают поддержку иностранным и турецким студентам, которые нацелены получить высшее образование в университетах Турции и готовятся к сдаче вступительных экзаменов для иностранных студентов, известных как экзамены для иностранных студентов YÖS, проводящихся данными университетами.

Экзамены YÖS организуются ведущими университетами Турции и состоят из двух отдельных частей: теста "Основные навыки обучения" и экзамена на знание турецкого языка. Тест на знание турецкого языка включен в экзамен для определения уровня владения турецким языком студентов, сдающих экзамен, и на распределение результатов не влияет. Распределение осуществляется на основании результатов теста "Основные навыки обучения", который принимается во внимание при оценке экзамена и на этапе приема в университет.

Поэтому, для того, чтобы успешно сдать экзамены, прежде всего, Вы должны получить более высокий балл, чем граничный балл, определенный для теста "Основные навыки обучения", и достичь запланированной оценки.

Экзаменационный тест "Основные навыки обучения" содержит вопросы на уровень интеллекта (IQ), вопросы по математике и геометрии. Учитывая, что 40% вопросов теста составляют вопросы на уровень интеллекта (IQ), правильно

Для того, чтобы иметь возможность получить образование в элитных вузах Турции, мы предлагаем вам принять участие в подготовительных курсах YÖS и получить поддержку наших опытных преподавателей, которые являются специалистами в своей области и готовят наши публикации.

Мы желаем успехов всем кандидатам, готовящимся к экзамену YÖS!



METROPOL BILDUNGSINSTITUTIONEN
ОБРАЗОВАТЕЛЬНЫЕ УЧРЕЖДЕНИЯ METROPOL

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BÖLÜM 1 CHAPTER

ŞİFRELER PASSWORDS

Bölüm / Chapter 1

Tek ve Çift Satırlı Şifreler / One and Two Line Passwords

Test 1

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. AKŞAM = DOVDP

II. SABAH = ?

A) ÜDEDK

B) UCFCJ

C) VEFEL

D) UFGFM

E) ŞBCBI

2. I. SINAV = PĞLYU

II. KAĞIT = ?

A) IZEĞS

B) İYFĞS

C) İYÇK

D) MENĞÜ

E) NZHGU

3. I. SAĞLIK = VEKPMÖ

II. KIRMIZI = ?

A) ĞEMİETE

B) ÖLUPELE

C) ABDCEBKB

D) GFMIFSE

E) ÖMÜRMDM

4. I. KALEM = LCOHR

II. KUMAŞ = ?

A) LVÖDV

B) MNODY

C) LORCT

D) ŞAMUK

E) MYOCT

5. I. ÇALIŞ = BÜĞCJ

II. BAŞAR = ?

A) YUMUN

B) YÜJÜİ

C) ZÜNSİ

D) SMNMV

E) KULMN

6. I. 532545 ⇒ ATMACA

II. 5245 ⇒ ?

A) ATAM

B) TAMA

C) AMAÇ

D) AMCA

E) CAMA

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7. I. 56971 $\rightarrow$ ■ $\triangle$ ● $\wedge$ $\neq$ II. 7615 $\Rightarrow$?A) ■ $\triangle$ ● $\wedge$ B) $\wedge$ $\triangle$ $\neq$ ■C) $\wedge$ $\triangle$ ■ $\neq$ D) $\wedge$ $\triangle$ $\neq$ ●E) $\triangle$ $\wedge$ $\neq$ ■8. I. 73452 $\Rightarrow$ $\triangle$ U V D $\wedge$ II. 5347 $\Rightarrow$?A) D U V $\wedge$ B) V U $\triangle$ DC) D U V $\triangle$ D) $\triangle$ U V VE) U $\wedge$ V $\triangle$

9. I. İZMİR = 19816

II. İZMARİT = ?

A) 1987610

B) 1987626

C) 1986701

D) 1897601

E) 9870112

10. I. BEŞİKTAŞ = GİTMURAT

II. KİTABE = ?

A) UMARGİ

B) UMGRAİ

C) UMRAGİ

D) MUGRİA

E) MURGİA

11. I. BEŞİKTAŞ = DAYIMKÖŞ

II. YAKIMAY = ?

A) ŞATEKAŞ

B) ŞATEKEŞ

C) ŞETİKEŞ

D) ŞATAKAŞ

E) ŞİTİKİŞ

12. I. 85876 $\Rightarrow$ $\cap$ 7 $\cap$ I $\neq$ II. 7856 $\Rightarrow$?A) $\cap$ $\neq$ 7B) $\cap$ 7 $\cap$ $\neq$ C) I $\cap$ 7 $\neq$ D) $\cap$ 7 $\neq$ E) $\neq$ 7 $\cap$ $\cap$ 

YANITLAR / ANSWERS

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

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. RIDVAN = TKGAÇP

II. ŞABAN = UÇDÇP

III. ŞADIRVAN = ?

A) UÇKGTAÇP

B) UÇĞITAÇPT

C) UÇGKTAÇP

D) UÇTAGKAÇP

E) UÇDÇPTKG

2. I. NANE = 1213

II. HAN = 421

III. MÜŞGÜL = 567869

IV. GÜMÜŞHANE = ?

A) 866574213

B) 867564213

C) 865674213

D) 865671342

E) 866745213

3. I. TEN = 723

II. BAŞ = 456

III. TUF = 789

IV. BÜFENTAŞ = ?

A) 12345678

B) 45612378

C) 48379256

D) 48923756

E) 48293756

4. I. EREN → 2527

II. KATI → 4381

III. EMEL → 2920

IV. MERAK → ?

A) 92357

B) 95204

C) 92584

D) 92534

E) 34724

5. KIRŞEHİR = ?

A) ■ ■ △ ● ■ ■ ■ ■

B) ■ △ ■ ● ○ ■ ■ ■

C) ■ △ ■ ● ● ■ ■ ■

D) ■ △ ■ ● ○ ■ ■ ■

E) ■ △ ■ ● ○ ■ ■ ■

6. I. DİLEK → 42105

II. NURAY → 61389

III. DERİN → ?

A) 45162

B) 48284

C) 40326

D) 41628

E) 40841

7. I. SELE → BJZJ

II. ZBJB = ?

A) ESLE

B) LESE

C) SELS

D) LSEE

E) LSES

8. ÜNİVERSİTE = ?

A) ■▲▲●■●■▲■

B) ■▲▲○■●■▲■

C) □▲▲○■●■▲■

D) □▲▲●■●■▲■

E) □▲▲●■●■▲■

9. I. ALİ → 528

II. TATİL = ?

A) 95982

B) 75785

C) 65628

D) 35482

E) 75984

10. I. KALEM → RİPOH

II. GİNJG = ?

A) KAVAL

B) EZİNE

C) ARENA

D) TABLA

E) TABUT

11. ALIŞKANLIK = ?

A) □○△□■□●○△■

B) □○△□□○□△■

C) □○△□■○●○△□

D) ○△□□■□●○△□

E) □○△□○■●○△□

12. I. TARTMAK + USILIK = (SİTART)

II. MARMA + ATILIM = ?

A) MARTIM

B) TIMARM

C) MARLIK

D) ATMARN

E) ILMARL

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YANITLAR / ANSWERS

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

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. S A M } II. 4 1 5
Ç A M } 6 1 5
N A M } 8 1 5
N E M } 8 9 5
Ç İ N } 6 7 8
⇒ ÇİN = ?
A) 415 B) 615 C) 815 D) 895 E) 678

2. I. K E T } II. 3 0 2
P E K } 2 0 1
T E T } 2 0 3
T E K } 1 0 1
K E P } 1 0 2
⇒ PEK = ?
A) 302 B) 201 C) 203 D) 101 E) 102

3. I. A Ç İ } II. 1 6 3
İ S İ } 5 1 6
S A Ç } 6 1 5
Ç A M } 4 1 6
M A Ç } 3 4 3
⇒ AÇİ = ?
A) 163 B) 516 C) 615 D) 416 E) 343

4. I. A B İ } II. ∅ α Φ
B A L } ⊗ α Φ
M A L } ⊗ ξ Φ
K A L } α ⊗ ↓
B E L } ↑ α Φ
⇒ ABİ = ?
A) ∅αΦ B) ⊗αΦ C) ⊗ξΦ
D) α⊗↓ E) ↑αΦ

5. I. M E Y } II. ξ ↓ α
S A M } ↑ ↓ α
S E N } ∇ ∅ ↑
Y E M } ∇ ↓ θ
R E Y } α ↓ ↑
⇒ YEM = ?
A) ξ↓θ B) ↑↓α C) ∇∅↑
D) ∇↓θ E) α↓↑

6. I. K U Ş } II. 8 1 7
B A Ş } 2 1 5
T U R } 9 6 5
A R Ş } 4 3 5
D İ Ş } 3 7 5
⇒ ARŞ = ?
A) 817 B) 215 C) 965
D) 435 E) 375

7.

I.	II.
Ü T Ü	5 1 8
T E F	2 8 3
O T O	5 6 5
Ü Y E	6 8 2
F E N	4 6 4

⇒ FEN = ?

- A) 518 B) 283 C) 565
D) 682 E) 464

8.

I.	II.
K O R	5 4 6
S O R	9 2 6
S E R	9 4 5
F E S	8 4 5
K E S	5 2 6

⇒ SOR = ?

- A) 546 B) 926 C) 945
D) 845 E) 526

9.

I.	II.
1 2 3	S E K
4 2 3	Y E L
5 2 3	K E L
6 2 3	S E L
5 2 6	T E L

⇒ 623 = ?

- A) TEL B) SEL C) KEL
D) YEL E) SEK

10.

I.	II.
Y A Y	5 1 3
O Y A	1 3 1
T E L	3 2 4
A L İ	6 9 1
S E Y	7 9 2

⇒ TEL = ?

- A) 691 B) 324 C) 513
D) 792 E) 131

11.

I.	II.
K A P	1 0 6
S A T	2 0 3
Y A K	5 0 1
P A S	1 0 2
K A N	3 0 4

⇒ PAS = ?

- A) 304 B) 102 C) 501
D) 203 E) 106

12.

I.	II.
Y A P	1 0 3
Ç A K	3 0 1
T A S	2 0 5
P A Y	6 0 4
S A T	5 0 2

⇒ ÇAK = ?

- A) 502 B) 205 C) 103
D) 604 E) 301

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YANITLAR / ANSWERS

1	E	3	A	5	E	7	B	9	C	11	D
2	A	4	D	6	E	8	E	10	D	12	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 below, 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. POP
TAT
SIS
KUŞ
ŞAK

II. ⇒ KUŞ = ?

- A) 948 B) 535 C) 626
D) 717 E) 829

2. I. TAÇ
TAP
TAK
ÇAT
ÇAŞ

II. ⇒ ÇAŞ = ?

- A) 134 B) 135 C) 236
D) 132 E) 231

3. I. YAB
NES
LOS
YAS
NEB

II. ⇒ LOS = ?

- A) 928 B) 371 C) 041
D) 048 E) 378

4. I. TUT
MAG
SUS
KOK
ŞUD

II. ⇒ MAG = ?

- A) 252 B) 404 C) 951
D) 757 E) 863

5. I. LIS
NÜĞ
İKİ
OLA
UNO

II. ⇒ NÜĞ = ?

- A) 928 B) 505 C) 243
D) 867 E) 651

6. I. KUM
CEM
TEZ
YUM
ZEM

II. ⇒ CEM = ?

- A) 026 B) 627 C) 127
D) 837 E) 437

7. I. SOR
SER
KOR
EFS
KES } ⇒ SER = ?
A) 285 B) 189 C) 835
D) 249 E) 149

8. I. YER
REY
TER
SEK
KES } ⇒ REY = ?
A) 123 B) 321 C) 423
D) 526 E) 625

9. I. SAP
PAK
ALP
SAL
LAK } ⇒ SAL = ?
A) $\uparrow \square \square$ B) $\uparrow \square \triangle$ C) $\triangle \uparrow \square$
D) $\downarrow \uparrow \triangle$ E) $\downarrow \uparrow \circ$

10. I. YAP
ÇAK
TAS
PAY
SAT } ⇒ ÇAK = ?
A) 502 B) 205 C) 103
D) 604 E) 301

11. I. ALI
İLE
ELİ
İLK
AKA } ⇒ İLK = ?
A) 786 B) 757 C) 685
D) 486 E) 684

12. I. LAK
LEY
LEK
iki
iyi } ⇒ LEY = ?
A) 864 B) 865 C) 747
D) 835 E) 757



YANITLAR / ANSWERS

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

In the following questions below, 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. TOP
TOK
MOD
HOP
KOP } $\Rightarrow$ KOP = ?
A) 723 B) 526 C) 423
D) 124 E) 123

2. I. MUM
ZAM
AZA
MAT
TAT } $\Rightarrow$ TAT = ?
A) ● ▲ ■ B) ▲ ● ▲ C) ■ ○ ■
D) ★ ▲ ★ E) ■ ▲ ★

3. I. DAM
AZA
DİL
LOŞ
ÇİM } $\Rightarrow$ DİL = ?
A) 141 B) 783 C) 267
D) 215 E) 965

4. I. LAV
FİN
NAZ
ANİ
KAV } $\Rightarrow$ FİN = ?
A) 816 B) 361 C) 432
D) 639 E) 532

5. I. BEZ
LAF
KAP
ARK
DEF } $\Rightarrow$ ARK = ?
A) 407 B) 241 C) 931
D) 536 E) 748

6. I. 424
475
435
421
921 } $\Rightarrow$ 424 = ?
A) KUŞ B) KAŞ C) KOK
D) KOÇ E) BOÇ

7. I. LAF
GAF
SAF
ALA
SES } ⇒ GAF = ?
A) 095 B) 909 C) 795
D) 313 E) 395

8. I. HAL
ÇİM
MEÇ
ENE
BİL } ⇒ ÇİM = ?
A) 302 B) 545 C) 798
D) 108 E) 253

9. I. NİF
LİN
NİÇ
LİK
NİH } ⇒ LİK = ?
A) 957 B) 351 C) 350
D) 953 E) 354

10. I. YEM
MEY
ŞEK
KEŞ
REH } ⇒ REH = ?
A) 249 B) 047 C) 942
D) 146 E) 641

11. I. ŞAT
KAB
LIK
KEÇ
ŞOK } ⇒ LİK = ?
A) 256 B) 902 C) 217
D) 314 E) 382

12. I. ALE
KAZ
ELİ
RİB
ŞOL } ⇒ RİB = ?
A) 093 B) 490 C) 832
D) 169 E) 547

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YANITLAR / ANSWERS

1	C	3	C	5	A	7	C	9	A	11	B
2	D	4	A	6	C	8	A	10	B	12	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 below, 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.
NANE	8159
NAME	9578
EMİN	6787
ÇİNİ	5141
MASA	8189

⇒ EMİN = ?

- A) 8159 B) 9578 C) 6787
D) 5141 E) 8189

2.

I.	II.
AYAK	3232
SONU	4657
YAYA	8485
ESEN	1848
KESE	2321

⇒ ESEN = ?

- A) 3232 B) 4657 C) 8485
D) 1848 E) 2321

3.

I.	II.
MANİ	7390
İRAT	2967
AMİR	0929
TAMA	9273
LAMA	4929

⇒ AMİR = ?

- A) 7390 B) 2967 C) 0929
D) 9273 E) 4929

4.

I.	II.
KALE	3594
SALI	1592
KASE	3514
TASO	7516
MANO	8506

⇒ KASE = ?

- A) 3594 B) 1592 C) 3514
D) 7516 E) 8506

5.

I.	II.
SAİK	5214
KİRA	4231
AKAR	2125
RAKS	4213
SAKİ	1352

⇒ RAKS = ?

- A) 5214 B) 4231 C) 2125
D) 4213 E) 1352

6.

I.	II.
AZİM	9172
EMİR	8429
RAMİ	7658
İNCE	3927
ELMA	8273

⇒ RAMİ = ?

- A) 8273 B) 3927 C) 7658
D) 8429 E) 9172

7.

I. II.

AMIL	5374
NIKE	7453
ENEK	3691
KENİ	9136
İLAM	4547

⇒ ENEK = ?

- A) 5374 B) 7453 C) 3691
D) 4547 E) 9136

8.

I. II.

YASA	↑∅α∅
YAMA	∇∅α∅
MAYA	∇↓∅↓
SAYA	α∅∇∅
SELE	α∅↑∅

⇒ MAYA = ?

- A) ↑∅α∅ B) ∇∅α∅ C) ∇↓∅↓
D) α∅∇∅ E) α∅↑∅

9.

I. II.

İLAN	↓↑γ∅
EMİN	∅∅↓γ
NAMİ	ξ↓γ∇
REİS	↑∅ξ∇
MARS	γ∅∅∅

⇒ NAMİ = ?

- A) ↓↑γ∅ B) ∅∅↓γ C) ξ↓γ∇
D) ↑∅ξ∇ E) γ∅∅∅

10.

I. II.

ZAYİ	Φ∇↑∇
YANI	↓∇α∇
KANİ	Φ∇∅∅
ZARA	↑∇∅∅
KAYA	↓∇↑∅

⇒ KANİ = ?

- A) Φ∇↑∇ B) ↓∇α∇ C) Φ∇∅∅
D) ↑∇∅∅ E) ↓∇↑∅

11.

I. II.

SILA	2356
MASA	7953
KALE	2313
MALA	4353
KARA	4373

⇒ SILA = ?

- A) 4373 B) 4353 C) 2313
D) 7953 E) 2356

12.

I. II.

POTA	1234
KUPA	5634
SOPA	5434
SAPA	1474
KAPA	3684

⇒ SAPA = ?

- A) 1234 B) 5634 C) 5434
D) 1474 E) 3684



YANITLAR / ANSWERS

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

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 below, 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. MODA
CAMİ
FAAL
LOCA
DOLU
⇒ LOCA = ?
- A) 2976 B) 8529 C) 4998
D) 3581 E) 7539

2. I. AMAÇ
ÇARK
KASA
KURS
SARI
⇒ ÇARK = ?
- A) 8379 B) 3435 C) 5372
D) 2178 E) 2383

3. I. 8267
4236
6942
4967
9123
⇒ 9123 = ?
- A) OZAN B) DANS C) RAST
D) DOST E) SODA

4. I. DERT
MERT
ROKA
TERK
ERAT
⇒ ROKA = ?
- A) 2384 B) 3678 C) 4237
D) 5234 E) 1234

5. I. ZONK
ORUN
UZUN
KURU
KORU
⇒ ORUN = ?
- A) 9897 B) 6959 C) 6259
D) 8276 E) 2597

6. I. KARA
ARIK
IRAK
AKIN
KINA
⇒ AKIN = ?
- A) 4563 B) 5234 C) 3456
D) 4323 E) 3254

7. I. AYAK
SONU
YAYA
ESEN
KESE } ⇒ ESEN = ?
- A) 3232 B) 4657 C) 8485
D) 1848 E) 2321

8. I. İLED
ILSA
ULSU
KILI
İLLE } ⇒ ILSA = ?
- A) 4005 B) 2909 C) 9071
D) 4056 E) 3073

9. I. AMES
AFEV
AFAS
AVAF
AMİS } ⇒ AVAF = ?
- A) 2145 B) 2846 C) 2806
D) 2126 E) 2521

10. I. SİNE
ASIN
İVİK
AZMI
ANAV } ⇒ ANAV = ?
- A) 5251 B) 6924 C) 5692
D) 5389 E) 9197

11. I. İYİK
İÇİF
İVIS
AFAY
UYUK } ⇒ İÇİF = ?
- A) 9193 B) 8183 C) 2721
D) 8687 E) 8584

12. I. ÇATA
İTAÇ
ŞİNİ
EŞİŞ
EŞİĞ } ⇒ İTAÇ = ?
- A) 7262 B) 1403 C) 4050
D) 1404 E) 9627

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YANITLAR / ANSWERS

1	B	3	A	5	E	7	C	9	E	11	D
2	C	4	B	6	C	8	C	10	A	12	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 below, 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. ENİS
KİNE
EMİK
LİME
İNED } ⇒ EMİK = ?
- A) 1543 B) 5936 C) 3457
D) 3952 E) 7593

2. I. ERÜK
EVÜN
ELÜG
EMÜK
EMÜF } ⇒ EMÜK = ?
- A) 4019 B) 4613 C) 4615
D) 4213 E) 4817

3. I. ALAH
AMAL
AŞAM
ASAK
ATAL } ⇒ ASAK = ?
- A) 7479 B) 7073 C) 7170
D) 7273 E) 7376

4. I. İÇLA
ILAÇ
ÇALI
ABAÇ
İÇEK } ⇒ İLAÇ = ?
- A) 3482 B) 2843 C) 4143
D) 2390 E) 2384

5. I. 2536
6534
1536
2534
6531 } ⇒ 1536 = ?
- A) PRAM B) PRAS C) KRAM
D) KRAP E) SRAP

6. I. 1342
4576
2985
5621
6317 } ⇒ 2985 = ?
- A) 1632 B) 7451 C) 8479
D) 5298 E) 2817

7. I. 4313
3616
6264
4131
3432
II. $\Rightarrow 3432 = ?$
- A) $\Delta \blacksquare \neq \blacksquare$ B) $\blacksquare \triangle \neq \triangle$ C) $\Delta \neq \blacksquare \neq$
D) $\blacksquare \Delta \blacksquare \bigcirc$ E) $\triangle \bigcirc \triangle \Delta$

8. I. METE
ATAK
KARE
MERA
ARKA
II. $\Rightarrow \text{MERA} = ?$
- A) $\leftarrow \downarrow \leftarrow \uparrow$ B) $\leftarrow \rightarrow \uparrow \leftarrow$
C) $\uparrow \leftarrow \rightarrow \emptyset$ D) $\triangle \emptyset \rightarrow \leftarrow$
E) $\triangle \emptyset \downarrow \emptyset$

9. I. KİME
EKİN
SİNE
EMİN
MİNE
II. $\Rightarrow \text{SİNE} = ?$
- A) $-x + \emptyset$ B) $+x \Delta \emptyset$
C) $\bigcirc x \Delta \emptyset$ D) $\emptyset + x \Delta$
E) $\emptyset - x \Delta$

10. I. KASA
ÇAKA
YARA
TASA
MAÇA
II. $\Rightarrow \text{YARA} = ?$
- A) $\bigcirc \Delta \square \Delta$ B) $\boxtimes \Delta \Delta \Delta$
C) $\Delta \Delta \oplus \Delta$ D) $\oplus \Delta \square \Delta$
E) $\square \Delta \square \Delta$

11. I. ÇETE
SAKA
KORU
ETEK
AKAR
II. $\Rightarrow \text{AKAR} = ?$
- A) $\vee \neq \blacksquare \neq$ B) $\wedge \Delta \wedge \blacksquare$ C) $\blacksquare + \bigcirc :$
D) $\neq \blacksquare \neq \bigcirc$ E) $\Delta \wedge \Delta \wedge$

12. I. AYET
FEDA
ADET
FİDE
SEDA
II. $\Rightarrow \text{SEDA} = ?$
- A) $\Delta \square \cup +$ B) $: \cup + \cap$ C) $\Delta + \cup :$
D) $\bullet + \cup :$ E) $\Delta + \cap$



YANITLAR / ANSWERS

1	C	3	A	5	E	7	D	9	C	11	D
2	B	4	B	6	A	8	D	10	E	12	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 below, 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. YAZI
KIYI
YAPI
KAZI
SARI } $\Rightarrow$ SARI = ?
- II.
- A) $\blacksquare \triangle + \bullet$ B) $\triangle \triangle : \bullet$ C) $\square \triangle \bigcirc \bullet$
D) $\blacksquare \bullet \triangle \bullet$ E) $\triangle \triangle + \bullet$

2. I. $\bigcirc \triangle \bigcirc \square$
 $\square \triangle \bigcirc \triangle$
 $\bigcirc \square \triangle \triangle$
 $\triangle \bigcirc \triangle \square$
 $\triangle \bigcirc \triangle \triangle$ } $\Rightarrow \triangle \bigcirc \square \triangle = ?$
- II.
- A) 4221 B) 1412 C) 2141
D) 1421 E) 4142

3. I. $\triangle \square \neq \square$
 $\bigcirc + \bigcirc \triangle$
 $\triangle + \bullet \sim$
 $\square \neq \square \bigcirc$
 $\bigcirc \bigcirc + \bigcirc$ } $\Rightarrow \sim \bigcirc + \bigcirc = ?$
- II.
- A) 7202 B) 5343 C) 2025
D) 3432 E) 1067

4. I. KARA
FARE
ARSA
SARA
KERE } $\Rightarrow$ FARE = ?
- II.
- A) $\bigcirc V X V$ B) $\square V X \triangle$ C) $\bigcirc \triangle X \triangle$
D) $+ V X V$ E) $V X + V$

5. I. UÇAK
ÇAKI
AÇIK
AKÇA
ÇİKA } $\Rightarrow$ AKÇA = ?
- II.
- A) $\square \triangle \uparrow \downarrow$ B) $\otimes \square \triangle \uparrow$ C) $\triangle \uparrow \square \triangle$
D) $\triangle \square \downarrow \uparrow$ E) $\square \downarrow \uparrow \triangle$

6. I. TASA
ASIR
ASAR
ATAR
SIRA } $\Rightarrow$ ASIR = ?
- II.
- A) $\downarrow \triangle \downarrow \bigcirc$ B) $\downarrow \square \downarrow \bigcirc$ C) $\triangle \otimes \bigcirc \downarrow$
D) $\downarrow \triangle \otimes \bigcirc$ E) $\square \downarrow \triangle \downarrow$

7. I. RENC
KELP
LEKE
EKLE
PELE } ⇒ **KELP = ?**
- A) ↓↑□□ B) ⊗↓□↓ C) □↑↑↓
D) ↑↓□⊗ E) ▲↓○↑

8. I. KERT
TAAM
İTEK
EMMİ
MİRA } ⇒ **İTEK = ?**
- A) 2470 B) 5376 C) 6002
D) 3224 E) 4635

9. I. YAKA
AKIL
KAYA
TAKI
YAKI } ⇒ **AKIL = ?**
- A) 4959 B) 5949 C) 9578
D) 3957 E) 4957

10. I. ATKI
ARTI
EKER
ERER
ATAR } ⇒ **ERER = ?**
- A) 6562 B) 6262 C) 9392
D) 9357 E) 9237

11. I. KATI
KALE
YALI
YARI
YARA } ⇒ **YARA = ?**
- A) 5937 B) 4987 C) 5986
D) 4929 E) 4927

12. I. TREN
ÜSSÜ
MERT
ESİR
KÜME } ⇒ **TREN = ?**
- A) 5731 B) 2156 C) 8495
D) 4774 E) 9512

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YANITLAR / ANSWERS

1	C	3	A	5	C	7	D	9	C	11	D
2	D	4	B	6	D	8	E	10	B	12	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 below, 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.
SELEN } 93135
SAKAR } 03137
NADİR } 63028
DEMİR } 54628
MELEK } 94748
⇒ DEMİR = ?
A) 94748 B) 54628 C) 63028
D) 03137 E) 93135

2. I. II.
SATIR } 12345
TAKIR } 62345
KATIR } 72345
ÇAKIR } 32145
BAKIR } 82145
⇒ TAKIR = ?
A) 12345 B) 62345 C) 72345
D) 32145 E) 82145

3. I. II.
YAVAN } 27378
KAVGA } 37471
KANAT } 97457
HAYAT } 37879
YATAK } 97178
⇒ YAVAN = ?
A) 27378 B) 37471 C) 97457
D) 37879 E) 97178

4. I. II.
KARMA } α∅∇↑∅
YARMA } ∅∅∇↑∅
SARMA } ↓∅∇↑∅
SARIL } ↓∅∇∅Φ
AYRIL } ∅∅∇∅Φ
⇒ SARMA = ?
A) α∅∇↑∅ B) ∅∅∇↑∅ C) ↓∅∇↑∅
D) ↓∅∇∅Φ E) ∅∅∇∅Φ

5. I. II.
RAKIM } ξ∅∅∅↑
RAKAM } ξ∅↓∅∇
SAYIN } ξ∅↓∅↑
SAYIM } α∅∅∅∇
SAKIN } α∅∅∅∇
⇒ SAYIM = ?
A) ξ∅∅∅↑ B) ξ∅↓∅∇ C) ξ∅↓∅↑
D) α∅∅∅∇ E) α∅∅∅∇

6. I. II.
YALAN } ∅α↑α∅
YAMAN } ∅α↓α∅
MARUL } ↓α∇φ↑
NASIL } ∅αγ∅↑
NASIR } ∅αγ∅∇
⇒ NASIR = ?
A) ∅α↑α∅ B) ∅α↓α∅ C) ↓α∇φ↑
D) ∅αγ∅↑ E) ∅αγ∅∇

7.

I. SEFİL
KEFİL
KEMER
SEMER
ESMER

II. $\otimes \uparrow \nabla \downarrow$
 $\Phi \uparrow \nabla \downarrow$
 $\Phi \otimes \gamma \otimes \otimes$
 $\otimes \otimes \gamma \otimes \otimes$
 $\otimes \otimes \gamma \otimes \otimes$

⇒ **ESMER = ?**

- A) $\otimes \otimes \uparrow \nabla \downarrow$ B) $\Phi \otimes \uparrow \nabla \downarrow$ C) $\Phi \otimes \gamma \otimes \otimes$
D) $\otimes \otimes \gamma \otimes \otimes$ E) $\otimes \otimes \gamma \otimes \otimes$

8.

I. KAÇAK
SAÇAK
KUCAK
SOKAK
KAPAK

II. 12821
15621
12321
42321
47121

⇒ **SOKAK = ?**

- A) 12821 B) 15621 C) 12321
D) 42321 E) 47121

9.

I. SELEN
SAKAR
DEMİR
NADİR
NURAN

II. SAÜES
VEÖEÜ
SEHNÜ
HIRNÜ
VIPIS

⇒ **SAKAR = ?**

- A) SAÜES B) VEÖEÜ C) SEHNÜ
D) HIRNÜ E) VIPIS

10.

I. KOVAN
TAVLA
TAVAN
KAPAN
SAPAN

II. $\bigcirc \blacktriangle \blacksquare \blacktriangle \nabla$
 $\nabla \blacktriangle \blacktriangle \blacktriangle \nabla$
 $\bigcirc \bullet \blacktriangle \blacktriangle \nabla$
 $\rightarrow \blacktriangle \blacktriangle \blacktriangle \nabla$
 $\nabla \blacktriangle \blacktriangle \oplus \blacktriangle$

⇒ **TAVAN = ?**

- A) $\bigcirc \blacktriangle \blacksquare \blacktriangle \nabla$ B) $\nabla \blacktriangle \blacktriangle \blacktriangle \nabla$ C) $\bigcirc \bullet \blacktriangle \blacktriangle \nabla$
D) $\rightarrow \blacktriangle \blacktriangle \blacktriangle \nabla$ E) $\nabla \blacktriangle \blacktriangle \oplus \blacktriangle$

11.

I. 86243
23830
32434
53071
26834

II. BARIŞ
SEHPA
HESAP
AHPAP
HASAR

⇒ **53071 = ?**

- A) BARIŞ B) SEHPA C) HESAP
D) AHPAP E) HASAR

12.

I. DİNAR
KEDİM
NEDİM
ZEKAN
KIZDA

II. 45623
70451
60451
90726
78942

⇒ **NEDİM = ?**

- A) 45623 B) 70451 C) 60451
D) 90726 E) 78942



YANITLAR / ANSWERS

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

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1. I. DİKİZ
MARKI
RIZAN
NAZİR
İKRAM
II. ⇒ İKRAM = ?
A) 57321 B) 45759 C) 62983
D) 12375 E) 38926

2. I. RESİM
KESİM
FESİM
KAFAM
SALAM
II. ⇒ RESİM = ?
A) 80293 B) 26463 C) 10293
D) 56163 E) 50293

3. I. BENAN
DUYGU
YAKUP
KAYGU
BAKAN
II. ⇒ DUYGU = ?
A) 10797 B) 59628 C) 69532
D) 19697 E) 42532

4. I. 76543
49841
30201
34967
90803
II. ⇒ 34967 = ?
A) ANFAP B) NÜFÜK C) KANER
D) RELAK E) KÜMÜP

5. I. 13573
35739
73925
68452
63935
II. ⇒ 63935 = ?
A) PERDE B) ERDEM C) DEMİR
D) SABRİ E) SEMER

6. I. UYGAR
YUMAK
UMMAK
YUTAK
YATAK
II. ⇒ YUMAK = ?
A) 12345 B) 21647 C) 24847
D) 16647 E) 21847

7. I. TABAK
KABAK
SALAK
AYLAK
SOLAK } $\Rightarrow$ SOLAK = ?
- A) 46967 B) 76267 C) 48967
D) 56267 E) 61967

8. I. SEFİR
KESİR
MESİR
TESİR
TEKİR } $\Rightarrow$ MESİR = ?
- A) 57612 B) 67812 C) 47612
D) 37412 E) 37612

9. I. 12314
52364
74364
82394
12394 } $\Rightarrow$ 74364 = ?
- A) KORLU B) ZORLU C) BURGU
D) SORGU E) KORKU

10. I. 12324
56724
82724
02964
42782 } $\Rightarrow$ 82724 = ?
- A) SEPET B) VELET C) KERAT
D) NALET E) TELVE

11. I. 12324
56324
72328
56920
02992 } $\Rightarrow$ 02992 = ?
- A) BURUN B) SOLUK C) SORUN
D) DURUM E) KULLU

12. I. SİLAH
LAHİT
HİTİT
HİLAL
DELİL } $\Rightarrow$ SİLAH = ?
- A) 42531 B) 53131 C) 93425
D) 76434 E) 53424



YANITLAR / ANSWERS

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

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In the following questions below, 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. ÇAKIR
ÇIRAK
HARAÇ
ÇAMUR
KIRAÇ
II. ⇒ ÇAMUR = ?

A) 71302 B) 21307 C) 90307
D) 70863 E) 70213

2. I. SAPIK
KASAP
KUSUR
SAKAT
TAKAS
II. ⇒ KASAP = ?

A) 82917 B) 52728 C) 73834
D) 82725 E) 72829

3. I. ŞİMAL
CENUP
PEŞİN
CEMİL
ALMAN
II. ⇒ CENUP = ?

A) 93245 B) 13579 C) 24680
D) 80685 E) 13640

4. I. 18575
27131
61069
14275
26139
II. ⇒ 14275 = ?

A) CESUR B) SICAK C) ESMER
D) CASUS E) SOKAK

5. I. KERT
TAAM
İTEK
EMMİ
MIRA
II. ⇒ İTEK = ?

A) 2470 B) 5376 C) 6002
D) 3224 E) 4635

6. I. SICAK
CASUS
SUSAK
CUSAS
SAKSI
II. ⇒ CASUS = ?

A) 32534 B) 61323 C) 62313
D) 31325 E) 34625

7. I. ESESE
BABAB
CBCBC
DCDCD
EDEDE
⇒ EDEDE = ?
- A) 42424 B) 65656 C) 06060
D) 40404 E) 51515

8. I. BAŞAK
KAŞIK
AŞKIN
ŞEBEK
NİŞAN
⇒ BAŞAK = ?
- A) 19621 B) 34693 C) 79691
D) 65751 E) 96123

9. I. AYŞEN
NURAY
AYNUR
ŞENAY
YASİN
⇒ YASİN = ?
- A) 47519 B) 36419 C) 91024
D) 19364 E) 19475

10. I. SORUN
NEDEN
SEBEP
SENET
SEPET
⇒ SEPET = ?
- A) 13536 B) 13738 C) 13638
D) 73937 E) 10247

11. I. KULAH
LABUT
HALUK
TABLA
BURUT
⇒ BURUT = ?
- A) 71035 B) 03435 C) 61739
D) 93716 E) 51071

12. I. YOLCU
KOLAY
KAPAK
YAPAY
PULCU
⇒ KAPAK = ?
- A) 73512 B) 21812 C) 86456
D) 23456 E) 71817



YANITLAR / ANSWERS

1	D	3	B	5	E	7	D	9	C	11	B
2	E	4	B	6	C	8	C	10	C	12	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 below, 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.
19280
08190
74680
29390
92740
⇒ 74680 = ?

- A) ŞAHİN B) NİŞAN C) SERİN
D) AHSEN E) HAZAN

2. I. II.
90387
12930
87962
50962
92616
⇒ 50962 = ?

- A) 61245 B) 31698 C) 78621
D) 68979 E) 45698

3. I. II.
72857
59892
63963
79894
91849
⇒ 79894 = ?

- A) 03703 B) 17874 C) 94819
D) 75827 E) 97872

4. I. II.
38676
93532
71819
82854
63734
⇒ 93532 = ?

- A) 51413 B) 40478 C) 94656
D) 39790 E) 69598

5. I. II.
TİLKİ
İKİLİ
ETKİN
TEKİN
EKELE
⇒ TEKİN = ?

- A) ▲ → + ⊙ → B) ∅ ⊙ ∅ + ∅
C) ▲ ∅ ⊙ → ↑ D) → ⊙ → + →
E) ∅ ▲ ∅ → ↑

6. I. II.
RASİM
MISRA
SARİM
MERAM
SELAM
⇒ MERAM = ?

- A) 36725 B) 54312 C) 32145
D) 56125 E) 12385

7. I. EMMEK
UŞŞAK
AYYAŞ
EVVEL
UMMAK } ⇒ UMMAK = ?
- A) 64468 B) 69960 C) 14458
D) 13358 E) 57753

8. I. HOPPA
TAKKE
KÜLLÜ
TEKKE
CÜPPE } ⇒ TAKKE = ?
- A) 27337 B) 38008 C) 98447
D) 65441 E) 21337

9. I. 15406
62926
72926
12329
92323 } ⇒ 15406 = ?
- A) MİDEN B) ZARAR C) MARAZ
D) NAZAN E) KAZAN

10. I. HASAN
AYNUR
SARAY
SARMA
NURAY } ⇒ AYNUR = ?
- A) 84376 B) 57327 C) 57376
D) 76843 E) 97578

11. I. BİLET
RİMEL
TİBET
MOTOR
ARABA } ⇒ BİLET = ?
- A) 96368 B) 18171 C) 85920
D) 35723 E) 75023

12. I. BETER
YETER
NEFER
AYFER
KAYAK } ⇒ BETER = ?
- A) 34748 B) 54048 C) 12621
D) 64748 E) 26048



YANITLAR / ANSWERS

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

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 below, 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. SALKIN } II. 526418
SORGUN } 527418
SOLGUN } 507938
KUSGUN } 915418
SARGIN } 506438
⇒ SOLGUN = ?
A) 506438 B) 915418 C) 507938
D) 527418 E) 526418

2. I. MARDİN } II. 123456
MARKİZ } 123759
KANKAN } 726726
NERMİN } 403951
DERZİM } 603156
⇒ KANKAN = ?
A) 603156 B) 403951 C) 726726
D) 123759 E) 123456

2. I. KESTEK } II. 123421
SERTEK } 760461
PIRTİK } 160869
YIRTİK } 560461
KIRGIN } 320421
⇒ SERTEK = ?
A) 603156 B) 403951 C) 726726
D) 123759 E) 123456

4. I. TAKVİM } II. 123456
TAKSİM } 120758
MAKSİM } 623756
KALBİM } 328956
TAHSİL } 123756
⇒ TAHSİL = ?
A) 120758 B) 123456 C) 623756
D) 328956 E) 123756

5. I. OLUMLU } II. 987687
DOLUNU } 917887
ILIMLI } 282682
OKULLU } 498707
ADAMAK } 343631
⇒ OLUMLU = ?
A) 343631 B) 498707 C) 282682
D) 917887 E) 987687

6. I. 123452 } II. AMASYA
236272 } ANKARA
212582 } SAMSUN
127943 } MARDİN
521503 } MANİSA
⇒ 212582 = ?
A) MANİSA B) MARDİN C) SAMSUN
D) ANKARA E) AMASYA

7.

I.	II.
210684	$\left\{ \begin{array}{l} \triangle \square \blacksquare \blacktriangle \bigcirc \end{array} \right.$
011297	$\left\{ \begin{array}{l} \blacksquare \blacksquare \square \square \square \star \end{array} \right.$
011057	$\left\{ \begin{array}{l} \square \square \square \triangle \square \star \end{array} \right.$
130464	$\left\{ \begin{array}{l} \square \square \square \blacksquare \bullet \star \end{array} \right.$
031017	$\left\{ \begin{array}{l} \square \blacksquare \square \bigcirc \triangle \bigcirc \end{array} \right.$

⇒ 031017 = ?

- A) $\triangle \square \blacksquare \blacktriangle \bigcirc$ B) $\blacksquare \blacksquare \square \square \square \star$
 C) $\square \square \square \triangle \square \star$ D) $\square \square \square \blacksquare \bullet \star$
 E) $\square \blacksquare \square \bigcirc \triangle \bigcirc$

8.

I.	II.
KALESİ	$\left\{ \begin{array}{l} 350741 \end{array} \right.$
EKİLTA	$\left\{ \begin{array}{l} 537819 \end{array} \right.$
ALEMİS	$\left\{ \begin{array}{l} 761253 \end{array} \right.$
İSABET	$\left\{ \begin{array}{l} 145697 \end{array} \right.$
SİYAKE	$\left\{ \begin{array}{l} 476135 \end{array} \right.$

⇒ KALESİ = ?

- A) 476135 B) 145697 C) 761253
 D) 537819 E) 350741

9.

I.	II.
SEFARE	$\left\{ \begin{array}{l} 546094 \end{array} \right.$
SEFALE	$\left\{ \begin{array}{l} 546074 \end{array} \right.$
KEFALE	$\left\{ \begin{array}{l} 846074 \end{array} \right.$
SELAME	$\left\{ \begin{array}{l} 547014 \end{array} \right.$
MELAME	$\left\{ \begin{array}{l} 147014 \end{array} \right.$

⇒ MELAME = ?

- A) 147014 B) 547014 C) 846074
 D) 546074 E) 546094

10.

I.	II.
BEREKE	$\left\{ \begin{array}{l} 312561 \end{array} \right.$
KERAME	$\left\{ \begin{array}{l} 017716 \end{array} \right.$
BEKLEM	$\left\{ \begin{array}{l} 012131 \end{array} \right.$
BELLEME	$\left\{ \begin{array}{l} 853756 \end{array} \right.$
SAKLAM	$\left\{ \begin{array}{l} 013716 \end{array} \right.$

⇒ BELLEM = ?

- A) 013716 B) 853756 C) 012131
 D) 017716 E) 312561

11.

I.	II.
KALMON	$\left\{ \begin{array}{l} 902817 \end{array} \right.$
PANKAL	$\left\{ \begin{array}{l} 407902 \end{array} \right.$
NAKPAM	$\left\{ \begin{array}{l} 958403 \end{array} \right.$
KUMPAS	$\left\{ \begin{array}{l} 403902 \end{array} \right.$
PASKAL	$\left\{ \begin{array}{l} 709408 \end{array} \right.$

⇒ PANKAL = ?

- A) 902817 B) 407902 C) 958403
 D) 403902 E) 709408

12.

I.	II.
KALİTE	$\left\{ \begin{array}{l} 137284 \end{array} \right.$
TEKİLA	$\left\{ \begin{array}{l} 540271 \end{array} \right.$
AKSİYİ	$\left\{ \begin{array}{l} 386294 \end{array} \right.$
ELYİSA	$\left\{ \begin{array}{l} 748213 \end{array} \right.$
MARİKT	$\left\{ \begin{array}{l} 479268 \end{array} \right.$

⇒ TEKİLA = ?

- A) 137284 B) 540271 C) 386294
 D) 748213 E) 479268



YANITLAR / ANSWERS

1	D	3	E	5	E	7	B	9	A	11	D
2	C	4	A	6	E	8	A	10	D	12	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. 413572
524361
135247
271453
342615
- II. ⇒ 524361 = ?

A) BAEGDF B) DBFEAC C) ADBFCE
D) FEABGD E) ECDAFB

2. I. ENBADC
DACBME
MBECAD
NEADCB
BCDMEA
- II. ⇒ DACBME = ?

A) 703412 B) 042731 C) 390124
D) 214073 E) 931240

3. I. BLKNMA
KMLABP
MABKPL
NKMLAB
ABNMLK
- II. ⇒ ABNMLK = ?

A) 560714 B) 607134 C) 145076
D) 476501 E) 014637

4. I. AEBECE
CEBEAE
FCDBDF
ECFBDA
DCABAD
- II. ⇒ ECFBDA = ?

A) 397573 B) 498537 C) 745494
D) 893538 E) 945474

5. I. AMKLKC
DMLCLA
DMCLCK
CMDKAA
CMNKNK
- II. ⇒ DMCLCK = ?

A) 794045 B) 493535 C) 895054
D) 790408 E) 497588

6. I. MAKMBN
KABMCN
BACMDN
CADMLN
DALMKN
- II. ⇒ CADMLN = ?

A) 529130 B) 123170 C) 625190
D) 327160 E) 726150

7. I. 154136
263245
325361
416452
542513
- II. $\Rightarrow 542513 = ?$

A) LMFLHN B) MHLMKF C) NFKNLH
D) KNHKFM E) HLNHMK

8. I. BCAMKP
AMBCPK
BMACPK
ACBMKP
ADBPMD
- II. $\Rightarrow \text{BMACPK} = ?$
- A) 469185 B) 974867 C) 419658
D) 964185 E) 914658

9. I. LASRTM
SMLTAR
ATRMLS
RSBLMT
MBTSRL
- II. $\Rightarrow \text{ATRMLS} = ?$
- A) 413729 B) 107493 C) 324971
D) 279134 E) 940317

10. I. MSLNTP
TMNPFS
PLTSMN
SFPTNM
NPSMLT
- II. $\Rightarrow \text{TMNPFS} = ?$
- A) 593427 B) 235704 C) 750243
D) 304572 E) 472395

11. I. 514978
154897
153619
154386
153764
- II. $\Rightarrow 514978 = ?$
- A) MNABMD B) MNCRDP C) MNAPBC
D) NMCDPR E) MNCARB

12. I. MNFHKC
CFKNLM
FMHCNK
KCNMFL
NKMFCF
- II. $\Rightarrow \text{KNCHMF} = ?$
- A) 546207 B) 652740 C) 267453
D) 473526 E) 724365



YANITLAR / ANSWERS

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

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.
M U K	6 2 0
M E C	7 2 6
Z E T	7 2 1
M U Y	7 3 8
M E Z	7 3 4

⇒ Z2TK3 = ?

- A) 6E07U B) 6E38T C) 6E80U
D) 6U08U E) 6E08U

2.

I.	II.
KAL	468
YEL	568
KEL	747
İKİ	538
İYİ	757

⇒ K87E5L = ?

- A) 5Lİ6K8 B) 5Lİ4K8 C) 4Lİ6K8
D) 5Lİ6Y8 E) 5Lİ846

3.

I.	II.
LAH	203
MİÇ	545
ÇEM	897
ENE	801
LİB	352

⇒ 1M9E0B5 = ?

- A) B2H501E B) B2H541E C) BH25İ1N
D) B2A5İ1E E) BH25İ1E

4.

I.	II.
LİMA	4735
EKİN	3547
KENE	1963
İNEK	6319
MALİ	7454

⇒ 61K7N = ?

- A) LM4K7 B) LM7K5 C) LM5K7
D) LM1K5 E) LM7K6

5.

I.	II.
6 3 5 2	M A R P
4 3 5 6	S A R P
6 3 5 1	M A R K
4 3 5 2	P A R K
1 3 5 6	P A R S

⇒ 12A5P = ?

- A) K53R6 B) 5K6R3 C) SK3R6
D) 5K6R1 E) SK1R6

6.

I.	II.
3 4 5 6 7	P A F N A
1 4 8 9 4	K Ü F Ü N
1 0 2 0 3	R E N A K
7 6 9 4 3	K A L E R
3 0 8 0 9	P Ü M Ü K

⇒ K4F0L46 = ?

- A) 3A8R2AE B) 3A8Ü5AE C) 3A8Ü5AM
D) 3A8R5EA E) 3A8Ü5EA

7.

I.	II.
A M N K L B	7 3 6 4 1 0
P B A L M K	1 0 5 6 7 4
L P K B A M	6 7 0 5 4 1
B A L M K N	3 4 1 7 0 6
K L M N B A	4 1 7 0 6 5

⇒ 1N4M0K = ?

- A) A5B0M6 B) A4B0M5 C) A5C0M5
D) A4C0N6 E) A4B0N5

8.

I.	II.
C K L K M A	5 4 0 4 9 7
A L C L M D	5 3 5 3 9 4
K C L C M D	4 5 0 5 9 8
A A K D M C	8 0 4 0 9 7
K N K N M C	8 8 5 7 9 4

⇒ KCL4M7 = ?

- A) 535C9A B) 804D9C C) 885C9E
D) 450D9C E) 540C9D

9.

I.	II.
P T N L S M	7 2 4 3 9 5
S F P N M T	4 0 7 5 3 2
N M S T L P	3 4 2 0 5 7
M N T P F S	2 7 5 4 0 3
T L M S P N	5 9 3 2 7 4

⇒ S9MTP0 = ?

- A) 57F43N B) 5F743L C) 95P43L
D) 54F7P E) 97L30N

10.

I.	II.
C K H F N M	7 0 2 6 4 5
M L N K F C	0 4 7 2 5 6
K N C H M F	3 5 4 7 6 2
L F M N C K	6 2 5 3 7 4
H C F M K N	5 6 3 4 2 7

⇒ 72MF4C = ?

- A) MN74F5 B) FM45K7 C) LM25HC
D) MN34L5 E) MF76C2

11.

I.	II.
6 0 4 5 1	K N G N H
6 2 9 2 6	K R C M Z
6 2 9 2 7	A N A N G
9 2 3 2 1	G N A N Z
3 2 3 2 9	K N G N K

⇒ R4M4Z4N = ?

- A) 0C5C2C1 B) 0C5C1C2 C) 0M5M1M2
D) 0C2C1C5 E) 0M5M2M1

12.

I.	II.
H A L İ S	1 3 5 2 4
T İ H A L	1 3 1 3 5
T İ T İ H	5 2 4 3 9
L A L İ H	4 3 4 6 7
L İ L E D	4 2 4 3 5

⇒ H5İLT4D = ?

- A) 4L3HDDH6 B) TH342L7 C) 5H431L7
D) 5H341L7 E) 4H342L7



YANITLAR / ANSWERS

1	E	3	D	5	C	7	A	9	B	11	B
2	A	4	B	6	B	8	E	10	A	12	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 below, 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. VOLT
DÜET
EDAT
ASİT
II. ⇒ DÜET = ?
A) 5613 B) 1258 C) 6853
D) 0923 E) 1743

2. I. SAİR
ESER
DAİR
AŞİR
II. ⇒ DAİR = ?
A) ★ ⇒ ✓ ⊕ B) ⇒ ♣ ✓ ⊕ C) ⊕ ☆ ★ ⊕
D) ♥ ☆ ♥ ⊕ E) ☆ ⇒ ✓ ⊕

3. I. 5370
6075
3750
7365
II. ⇒ 3750 = ?
A) ● ▲ ▼ ■ B) ▼ □ ● ■ C) ■ ▲ ● □
D) □ ■ ▼ ▲ E) ▲ ● ■ □

4. I. 1948
3968
7268
6095
II. ⇒ 6095 = ?
A) İNAK B) HANK C) HAİL
D) STİL E) FAUL

5. I. BADC
ACBD
DCBA
ABCD
II. ⇒ DCBA = ?
A) 9072 B) 2709 C) 7002
D) 7290 E) 2079

6. I. ⊃ ∪ ∩ *
∩ ∪ ⊃ *
∪ ∩ ∩ *
∩ ∪ ∩ *
II. ⇒ ⊃ ∪ ∩ * = ?
A) FKTH B) TFRH C) KTFH
D) RKTH E) HTKF

7. I. II.
 $\left. \begin{array}{l} \triangle \square \square \blacksquare \\ \blacksquare \square \triangle \bullet \\ \triangle \circ \square \triangle \\ \blacksquare \bullet \circ \triangle \end{array} \right\} \Rightarrow \triangle \circ \square \triangle = ?$
 A) 9657 B) 9732 C) 5362
 D) 9735 E) 5269

8. I. II.
 $\left. \begin{array}{l} 29453 \\ 52439 \\ 45923 \\ 34259 \end{array} \right\} \Rightarrow 45923 = ?$
 A) 70186 B) 81076 C) 08617
 D) 90168 E) 16087

9. I. II.
 $\left. \begin{array}{l} TTTNN \\ NNNSS \\ SSSFF \\ FFFKK \end{array} \right\} \Rightarrow NNNSS = ?$
 A) $\square \square \square \blacktriangle \blacktriangle$ B) $\blacksquare \blacksquare \blacksquare \circ \circ$ C) $\circ \circ \circ \square \square$
 D) $\bullet \bullet \blacktriangle \blacktriangle \blacktriangle$ E) $\blacktriangle \blacktriangle \blacktriangle \bullet \bullet$

10. I. II.
 $\left. \begin{array}{l} SİTEM \\ KETON \\ MOTEL \\ LETÇE \end{array} \right\} \Rightarrow SİTEM = ?$
 A) 25475 B) 17634 C) 83459
 D) 91452 E) 05416

11. I. II.
 $\left. \begin{array}{l} LANGUR \\ LEYLEK \\ LİMAKİ \\ LÜKLET \end{array} \right\} \Rightarrow LİMAKİ = ?$
 A) $\rightarrow \star \clubsuit = \oplus -$ B) $\uparrow = + \uparrow \clubsuit$ C) $+\oplus \clubsuit + \uparrow \downarrow$
 D) $+x \theta \rightarrow \clubsuit x$ E) $+ \rightarrow \star / \leftarrow -$

12. I. II.
 $\left. \begin{array}{l} 926027 \\ 480217 \\ 027537 \\ 157627 \end{array} \right\} \Rightarrow 480217 = ?$
 A) SELFİN B) FELİKS C) KASTİS
 D) LİSANS E) BİTLİS



YANITLAR / ANSWERS

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

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 below, 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.

Y	O	L
K	O	Y
Y	A	Y

=

?

A) $\triangle$ $\square$ $\circ$
 $\blacksquare$ $\square$ $\triangle$
 $\triangle$ $\triangle$ $\triangle$

B) $\triangle$ $\square$ $\bullet$
 $\square$ $\blacksquare$ $\triangle$
 $\triangle$ $\triangle$ $\triangle$

C) $\triangle$ $\square$ $\triangle$
 $\blacksquare$ $\square$ $\triangle$
 $\triangle$ $\triangle$ $\triangle$

D) $\triangle$ $\square$ $\bullet$
 $\blacksquare$ $\square$ $\triangle$
 $\triangle$ $\triangle$ $\triangle$

E) $\triangle$ $\square$ $\bullet$
 $\blacksquare$ $\square$ $\triangle$
 $\triangle$ $\circ$ $\square$

2. I. II.

O	Y	A
A	Y	A
U	Y	U

=

?

A) $\cup$ ∇ $\cup$
 $\cap$ $\triangle$ $\cap$
 ∇ $\triangle$ ∇

B) $\cup$ $\triangle$ $\cap$
 $\cap$ $\triangle$ $\cap$
 ∇ $\triangle$ ∇

C) $\cup$ $\cup$ $\cup$
 $\cap$ $\triangle$ $\cap$
 ∇ $\triangle$ ∇

D) $\cap$ $\triangle$ $\cap$
 $\cap$ $\triangle$ $\cap$
 ∇ $\triangle$ ∇

E) $\cup$ $\triangle$ $\cap$
 $\cap$ $\triangle$ $\cap$
 ∇ $\triangle$ ∇

3. I. II.

A	U	A
n	A	O
V	n	V

=

?

A) E C E
O Y A
A Y A

B) E C E
Y A R
O Y A

C) E C E
Y E R
A Y A

D) A Y A
Y E R
E C E

E) O Y A
Y E R
A Y A

4.

I.

$\square$	$\triangle$	$\blacksquare$	$\triangle$
$\bullet$	$\blacksquare$	$\circ$	$\bullet$
$\triangle$	$\blacksquare$	$\triangle$	$\diamond$

=

II.

?

A) K U Y U
A Y A N
U Y K U

B) K U Y U
A Y N A
U Y U M

C) M A Y A
A Y N I
K A Y A

D) U Y U M
O Y U N
K U Y U

E) K U Y U
O Y N A
U C U Z

5.

I.

7	6	6	5
3	2	3	2
7	1	6	5

=

II.

?

A) $\bullet$ $\triangle$ $\bullet$ $\triangle$
 $\square$ $\circ$ $\square$ $\circ$
 $\bullet$ $\diamond$ $\triangle$ $\blacksquare$

B) $\blacksquare$ $\triangle$ $\triangle$ $\square$
 $\bullet$ $\diamond$ $\circ$ $\diamond$
 $\triangle$ $\bullet$ $\triangle$ $\square$

C) $\square$ $\triangle$ $\triangle$ $\square$
 $\square$ $\bullet$ $\square$ $\bullet$
 $\triangle$ $\blacksquare$ $\triangle$ $\square$

D) $\triangle$ $\bullet$ $\bullet$ $\square$
 $\square$ $\circ$ $\blacksquare$ $\circ$
 $\triangle$ $\diamond$ $\triangle$ $\blacksquare$

E) $\triangle$ $\triangle$ $\triangle$ $\square$
 $\blacksquare$ $\circ$ $\blacksquare$ $\circ$
 $\triangle$ $\diamond$ $\triangle$ $\square$

6.

I.

3	2	5
4	3	7
5	1	3

=

II.

?

A) $\triangle$ $\square$ $\triangle$
 $\blacksquare$ $\triangle$ $\circ$
 $\triangle$ $\diamond$ $\triangle$

B) $\triangle$ $\square$ $\triangle$
 $\blacksquare$ $\triangle$ $\circ$
 $\triangle$ $\diamond$ $\triangle$

C) $\triangle$ $\square$ $\triangle$
 $\square$ $\triangle$ $\blacksquare$
 $\triangle$ $\diamond$ $\triangle$

D) $\triangle$ $\square$ $\triangle$
 $\square$ $\triangle$ $\bullet$
 $\triangle$ $\blacksquare$ $\triangle$

E) $\bullet$ $\triangle$ $\square$
 $\triangle$ $\bullet$ $\triangle$
 $\square$ $\bullet$ $\square$

7.

I.	II.																
<table><tr><td>Ç</td><td>E</td><td>K</td><td>İ</td></tr><tr><td>K</td><td>E</td><td>Ç</td><td>İ</td></tr><tr><td>İ</td><td>Ç</td><td>E</td><td>K</td></tr><tr><td>E</td><td>K</td><td>İ</td><td>Ç</td></tr></table>	Ç	E	K	İ	K	E	Ç	İ	İ	Ç	E	K	E	K	İ	Ç	=
Ç	E	K	İ														
K	E	Ç	İ														
İ	Ç	E	K														
E	K	İ	Ç														
	<table><tr><td>?</td></tr></table>	?															
?																	

- A)

○	□	●	△
●	□	○	△
△	○	□	●
□	△	●	○

 B)

△	□	●	○
●	□	△	○
○	△	□	●
□	○	△	●

 C)

□	●	△	○
○	□	△	●
△	○	□	●
○	△	□	●
- D)

○	△	□	●
□	△	○	●
●	○	△	□
△	○	●	□

 E)

△	□	○	○
○	□	△	○
○	△	○	△
□	○	△	○

8.

I.	II.										
<table><tr><td>7</td><td>4</td><td>5</td></tr><tr><td>4</td><td>5</td><td>7</td></tr><tr><td>5</td><td>7</td><td>4</td></tr></table>	7	4	5	4	5	7	5	7	4	<table><tr><td>?</td></tr></table>	?
7	4	5									
4	5	7									
5	7	4									
?											

- A)

K	R	L
K	L	K
R	K	L

 B)

L	R	R
K	R	K
L	R	K

 C)

K	R	L
R	L	K
L	K	R
- D)

R	L	K
L	K	R
L	R	K

 E)

L	K	R
R	L	R
K	R	L

9.

I.	II.												
<table><tr><td>■</td><td>△</td><td>●</td><td>■</td></tr><tr><td>○</td><td>▲</td><td>△</td><td>■</td></tr><tr><td>◇</td><td>△</td><td>●</td><td>■</td></tr></table>	■	△	●	■	○	▲	△	■	◇	△	●	■	≡
■	△	●	■										
○	▲	△	■										
◇	△	●	■										
	?												

- A) Ç A R K B) C E N K C) D A N K
T A L K C Ö N K F A R K
F A R K D E N K Ç A R K
- D) K A L K E) F A R K
O C A K O D A K
T A L K T A L K

10.

I.	II.									
<table><tr><td>□</td><td>○</td><td>△</td></tr><tr><td>○</td><td>□</td><td>△</td></tr><tr><td>△</td><td>△</td><td>○</td></tr></table>	□	○	△	○	□	△	△	△	○	≡
□	○	△								
○	□	△								
△	△	○								
	<table><tr><td>?</td></tr></table>	?								
?										

- A) O H A B) O A H C) A O O
H O A H O A H A A
A A H O O H A O H
- D) O O O E) H O A
H A A O H A
A A H A O O

11.

I.	II.																					
<table><tr><td>4</td><td>1</td><td>2</td><td>3</td><td>7</td></tr><tr><td>7</td><td>5</td><td>1</td><td>9</td><td>4</td></tr><tr><td>6</td><td>2</td><td>5</td><td>8</td><td>2</td></tr><tr><td>4</td><td>3</td><td>7</td><td>6</td><td>1</td></tr></table>	4	1	2	3	7	7	5	1	9	4	6	2	5	8	2	4	3	7	6	1	<table><tr><td>?</td></tr></table>	?
4	1	2	3	7																		
7	5	1	9	4																		
6	2	5	8	2																		
4	3	7	6	1																		
?																						

- A) Z R A M C B) Z R A M C C) Z R A M C
C N R E Z C N R E Z C N R E Z
K A Z D A K A Z D A K A N D A
Z M C K R Z N C K R Z M C K R
- D) Z R A M C E) Z R A M C
C N R E Z C N R E Z
K A N D E K E N D A
Z M C K R Z M L K R

12.

I.	II.																										
<table><tr><td>K</td><td>A</td><td>L</td><td>E</td><td>M</td></tr><tr><td>S</td><td>i</td><td>L</td><td>G</td><td>i</td></tr><tr><td>M</td><td>A</td><td>K</td><td>E</td><td>K</td></tr><tr><td>G</td><td>A</td><td>L</td><td>i</td><td>P</td></tr><tr><td>P</td><td>A</td><td>L</td><td>i</td><td>S</td></tr></table>	K	A	L	E	M	S	i	L	G	i	M	A	K	E	K	G	A	L	i	P	P	A	L	i	S	<table><tr><td>?</td></tr></table>	?
K	A	L	E	M																							
S	i	L	G	i																							
M	A	K	E	K																							
G	A	L	i	P																							
P	A	L	i	S																							
?																											

- A)

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

 B)

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

 C)

4	8	6	5	3
2	0	6	1	4
3	8	4	5	4
6	8	1	0	7
7	8	6	2	0
- D)

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

 E)

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



YANITLAR / ANSWERS

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

1. I. $\left. \begin{array}{l} 30 \\ 09 \\ 50 \\ 70 \\ 07 \end{array} \right\} \Rightarrow 07 = ?$

A) AF

D) SA

B) MA

E) AL

C) FA

2. I. $\left. \begin{array}{l} TAŞ \\ BAŞ \\ KAŞ \\ KOT \end{array} \right\} \Rightarrow OBA = ?$

A) $\square \cap \triangle$ D) $\cap \triangle \otimes$ B) $\square \star \triangle$ E) $\cup \cap \star$ C) $\cup \otimes \star$

3. I. 25367 $\Rightarrow \cup \triangle \blacktriangle \circ \cap$

II. 7265 $\Rightarrow ?$ A) $\cap \cup \circ \triangle$ D) $\circ \cup \blacktriangle \triangle$ B) $\cap \cup \circ \circ$ E) $\blacktriangle \cup \triangle \cap$ C) $\cap \blacktriangle \circ \cup$

4. I. $\left. \begin{array}{l} NEDİM \\ ZEKAN \\ KEDİM \\ KİZDA \\ DİNAR \end{array} \right\} \Rightarrow DİNAR = ?$

A) 70451

D) 75942

B) 45623

E) 90726

C) 60451

5. I. $\left. \begin{array}{l} 6176435 \\ 4657261 \\ 9623485 \\ 4626931 \\ 6571348 \end{array} \right\} \Rightarrow 4657261 = ?$

A) KELEPİR

D) KENTLER

B) PELİKAN

E) ERTEKİN

C) ENTRİKA

6. I. $\left. \begin{array}{l} İ N E K \\ L İ M A \\ E K İ N \\ M A L İ \\ K E N E \end{array} \right\} \Rightarrow EKİN = ?$

A) 1354

D) 2746

B) 7262

E) 4627

C) 5413

7.

I.	II.
Y A V A N	2 7 3 7 8
K A V K A	3 7 4 7 1
Y A T A K	9 7 4 9 7
H A Y A T	3 7 8 7 9
K A N A T	9 7 1 7 8

⇒ HAYAT = ?

- A) 97497 B) 37879 C) 27378
D) 37471 E) 97178

8.

I.	II.
♥ * → ♠ △	1 9 6 3 2
● □ ♥ * →	9 1 5 8 6
□ ♠ * ● ♥	7 4 9 1 5
* ♥ △ ↑ ←	4 8 1 7 9
△ ↑ ← ♥ □	6 3 2 9 4

⇒ □ ♠ * ● ♥ = ?

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

9.

I.	II.
M E L A M E T	5 4 6 0 9 4 3
K E F A L E T	8 4 6 0 7 4 3
S E L A M E T	5 4 6 0 7 4 3
S E F A L E T	1 4 7 0 1 4 3
S E F A R E T	5 4 7 0 1 4 3

⇒ SELAMET = ?

- A) 5470143 B) 1470143 C) 8460743
D) 5460743 E) 5460940

10.

I.	II.
A Z İ M	?
R A M İ	
E L M A	

- A)

U	↓	U
↑	U	U
C	→	U

 B)

U	↓	U
↑	U	U
C	→	U

 C)

U	↓	U
↑	U	U
→	C	U
- D)

↓	U	U
→	C	U
U	↓	U

 E)

U	↓	U
↑	U	U
C	→	U

11.

I.	II.
NNO NNM NOO	?
ONM OMO ONN	
MON OMN MNO	

- A)

445	446	455
546	565	566
654	465	645

 B)

445	446	455
546	565	544
654	564	645
- C)

556	554	566
546	545	655
456	654	665

 D)

556	554	566
654	646	644
456	665	645
- E)

556	554	566
654	646	655
465	645	465

12.

A	L	İ	Ş	K	A	N	L	İ	K
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1	3	2	9	8	1	7	3	2	8

⇒ ŞAKA = ?

- A) 1928 B) 9181 C) 9118
D) 1982 E) 9118



YANITLAR / ANSWERS

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

1. I. 1652
7657
1918
4163
4301
⇒ 4163 = ?
- A) ARAÇ B) İLGI C) BOĞA
D) ALGI E) BALO

2. I. 6863
9786
4756
1796
7826
⇒ 4756 = ?
- A) BOYA B) KOVA C) AYAR
D) OYMA E) SOBA

3. I. KEÇE
ARPA
PARA
APAK
AKÇE
⇒ KEÇE = ?
- A) 8767 B) 7874 C) 7687
D) 7423 E) 4323

4. I. 49861 ⇒ * ■ △ □ ▲
II. 1649 ⇒ ?
- A) ▲ □ * ● B) ▲ □ △ * C) □ ▲ * △
D) ▲ □ * ■ E) ● □ ▲ *

5. I. SANAT
KONAK
SONAT
KAZAK
KONUK
⇒ KONAK = ?
- A) 85268 B) 76263 C) 86168
D) 85208 E) 75263

6. I. YATAY
YAMUK
OKTAY
KOLAY
YALAK
⇒ OKTAY = ?
- A) 76531 B) 13246 C) 67831
D) 13836 E) 13531

7. I. II.

FIYAT
ENGİN
YENGE
YATIR
GİRNE

⇒ GİRNE = ?

- A) 45635 B) 24564 C) 93210
D) 63854 E) 21078

8. I. II.

KALĞO
PAKAL
KUMAP
KALAY
KAPAK

⇒ KUMAP = ?

- A) 95804 B) 90206 C) 90231
D) 90409 E) 40902

9. I. DELİKANLI = 237891475

II. KENDİNAL = ?

- A) 94382417
B) 34982164
C) 49321648
D) 93428417
E) 94236184

10. I. ANTDOĞU + SAKARYA = (OLANAK)

II. FERASET + ERIŞENZ = ?

- A) RİSALE
B) SENERİ
C) SERSERİ
D) SEFERİ
E) PERİŞAN

11. I. II.

O	P	L	N	A
B	S	U	N	Z
A	L	O	C	B
U	Z	C	S	P

=

?

- A)

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

 B)

5	1	2	4	6
7	3	0	4	8
6	2	5	8	9
0	8	1	9	3
- C)

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

 D)

5	1	2	4	6
7	3	0	4	8
2	6	3	7	9
0	8	9	7	1
- E)

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

12.

A	H	M	E	T
↓	↓	↓	↓	↓
B	I	N	F	L

 ⇒ MEHMET = ?

- A) NFILFL B) NFIFNL C) NFINFL
D) NFILNF E) NFNIFL



YANITLAR / ANSWERS

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

1. I. ŞİNİ
ELİŞ
İÇLE
ELİÇ
İÇEK } ⇒ ELİÇ = ?
- A) 0843 B) 0845 C) 4507
D) 3494 E) 4580

4. I. 2145
5412
2421
1452
4512 } ⇒ 5412 = ?
- A) ACLP B) CALP C) LCAP
D) PLCA E) PCPL

2. I. ERGUVAN + LÜTFİYE = (VİRGÜL)
II. EDENGİL + EKABİLO = ?
- A) ESERE
B) BENDER
C) GİDEKE
D) DENEBİR
E) KANTAR

5. I. REMEK
REMES
LEMET
REMSE
LEMEC } ⇒ REMES = ?
- A) 96368 B) 96367 C) 26356
D) 26361 E) 26365

3. I. ELİF
İFLE
ŞİTİ
İNİS
KEME } ⇒ İNİS = ?
- A) 1983 B) 4323 C) 3819
D) 1617 E) 5101

6. I. ZİNE
NİGNE
NİNES
ZİMET
NİLEG } ⇒ NİLEG = ?
- A) 24051 B) 84957 C) 24853
D) 84856 E) 84735

7. I. RASİM
MISRA
SARIM
MERAM
SELAM
⇒ SELAM = ?
- A) 36725 B) 58312 C) 32185
D) 56125 E) 12345

8. I. * ■ □ ▲
◇ ▲ △ ■
△ □ ◇ ○
□ ■ ◇ ○
▲ ○ △ ■
⇒ ◇ ▲ △ ■ = ?
- II. 9 1 5 8
2 8 9 7
6 7 1 2
1 7 5 8
5 2 9 7
- A) 9158 B) 2897 C) 6712
D) 1758 E) 5297

9. I. 5 6 1 4
8 1 6 5
2 5 9 1
1 4 5 2
4 9 2 8
⇒ 4928 = ?
- II. △ ● * □
○ △ ■ *
* □ △ ○
▲ * ● △
□ ■ ○ ▲
- A) ○ △ ■ * B) ▲ * ● △ C) △ ● * □
D) □ ■ ○ ▲ E) * □ △ ○

10. I. A C A B A
A C E L E
A C A R A
A B L A K
A B A L I
⇒ ACABA = ?
- II. 5 2 5 6 7
5 3 5 1 5
5 3 5 2 5
5 3 4 6 4
5 2 6 5 9
- A) 52859 B) 52567 C) 53515
D) 53464 E) 53525

11. I. 7 6 5 2 1
7 3 8 9 8
5 2 3 6 7
1 2 3 6 7
1 7 8 2 4
⇒ 74356 = ?
- II. ○ □ ▲ ■ +
□ △ ↑ ■ ○
○ ■ ● △ □
↑ ■ ● △ □
□ ● ▲ * ▲
- A) + △ □ ■ + B) □ + ● ↑ △ C) △ □ ■ ● +
D) □ + ● ▲ ↑ E) □ ▲ ○ ● ↑

12. I. 2 6 2 8
8 2 6 8
2 2 6 6
= ?
- II. ?
- A) ↑ ↓ ↑ →
→ ↑ ↓ →
↑ ↑ ↓ →
- B) ↑ ↓ ↑ →
→ ↑ ↓ →
↑ ↑ ↓ →
- C) ↑ ↓ ↑ →
→ ↑ ↓ →
↑ ↑ ↓ ↓
- D) ↑ → ↑ ↓
↓ ↑ ← ↓
↑ ↑ → ←
- E) ↑ ↓ ↑ →
↓ ↑ ↓ →
↑ ↑ ↓ ↓



YANITLAR / ANSWERS

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

BÖLÜM 2 CHAPTER

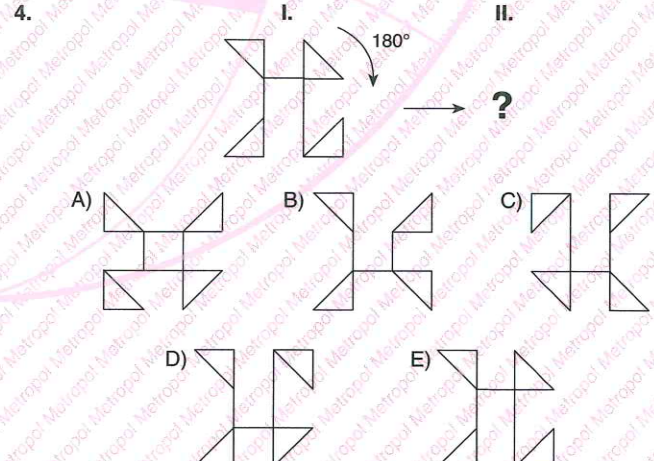
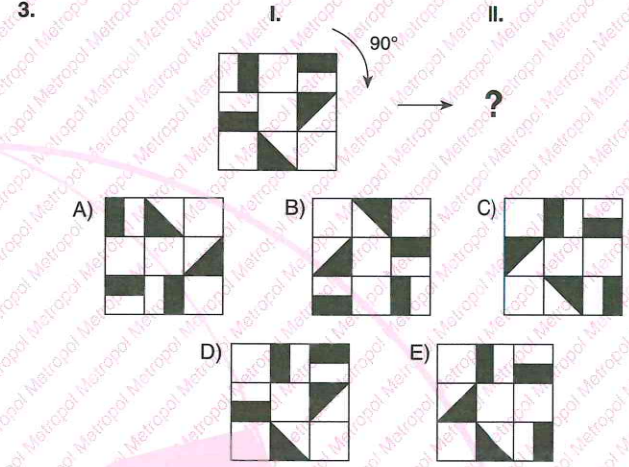
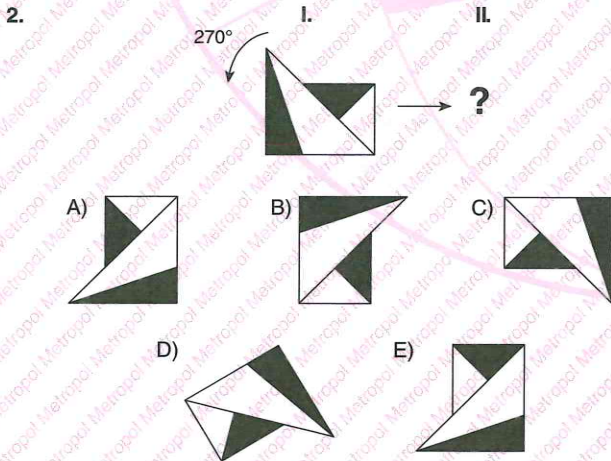
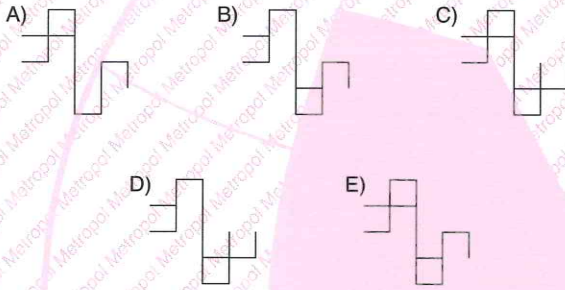
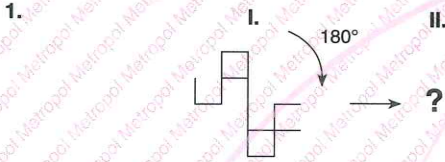
ŞEKİL BAĞINTILARI FIGURE RELATIONS

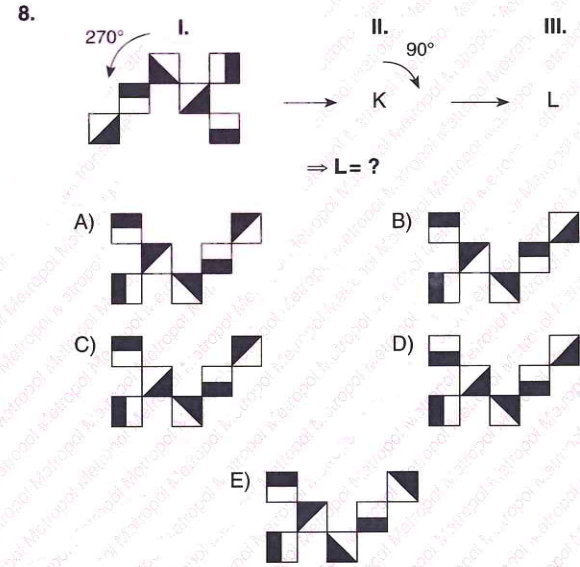
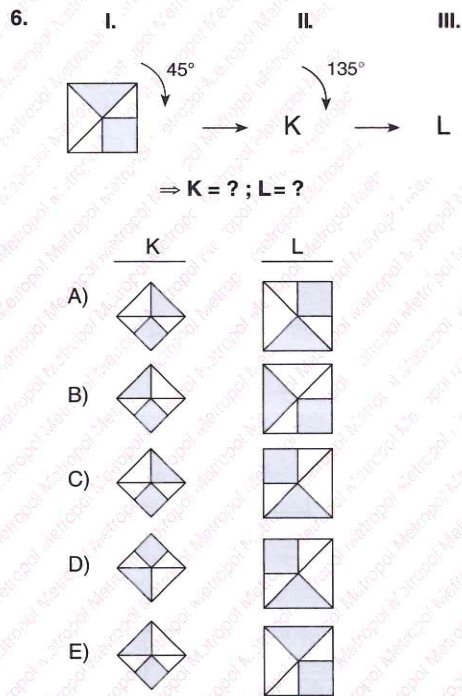
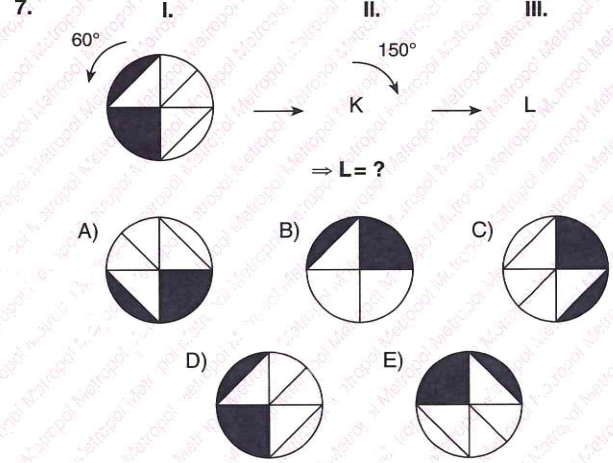
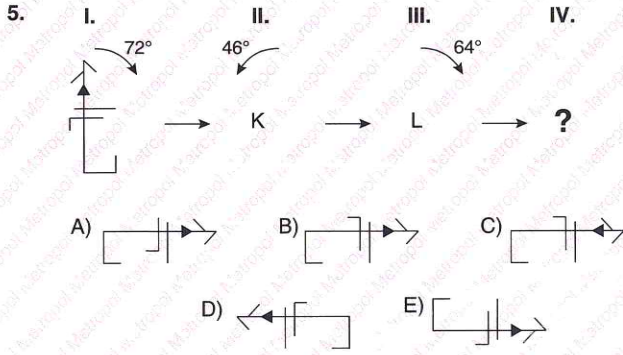
Bölüm / Chapter 2

Şekillerde Döndürme / Rotation in Figures

Test 1

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.





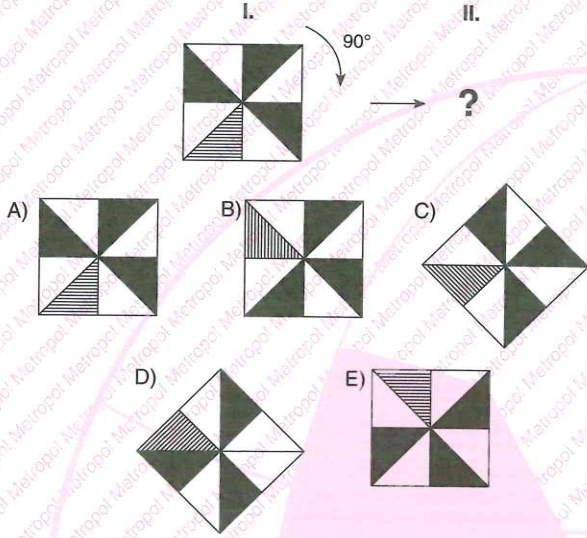
YANITLAR / ANSWERS

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

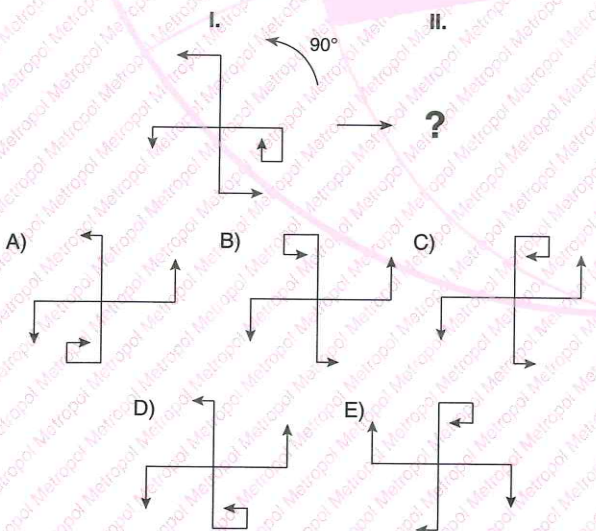
Aşağıdaki sorularda verilen şekiller ok yönünde ve belirtilen derecelerde döndürüldüğünde oluşan şekilleri bulunuz.

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

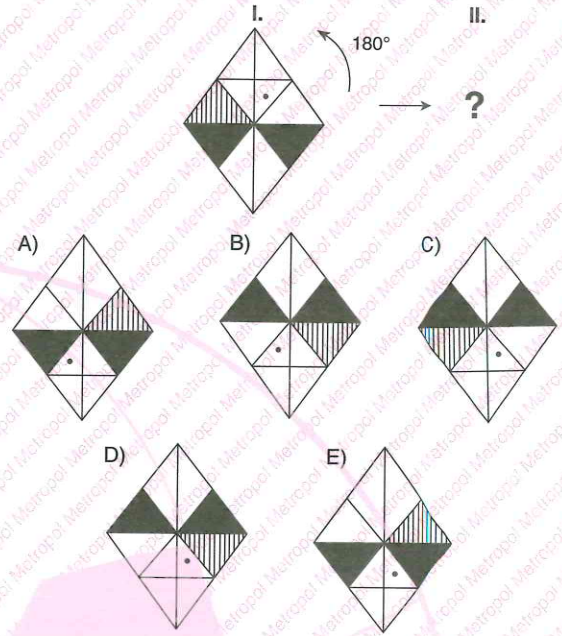
1.



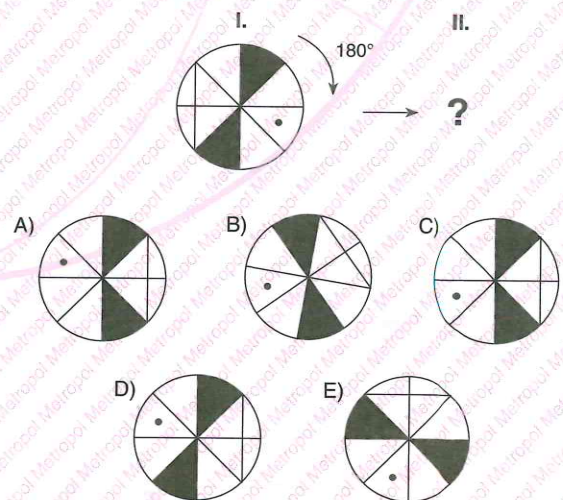
2.



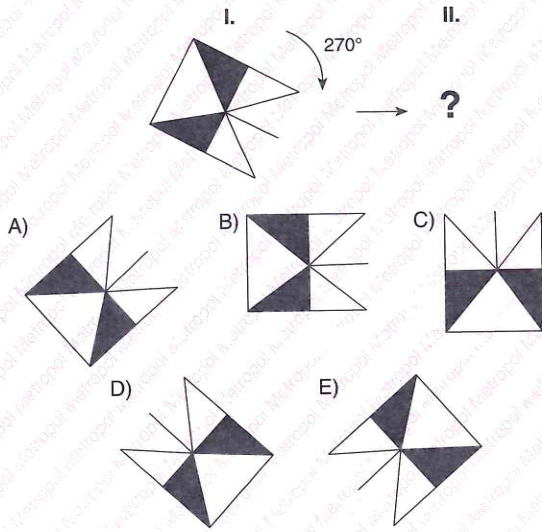
3.



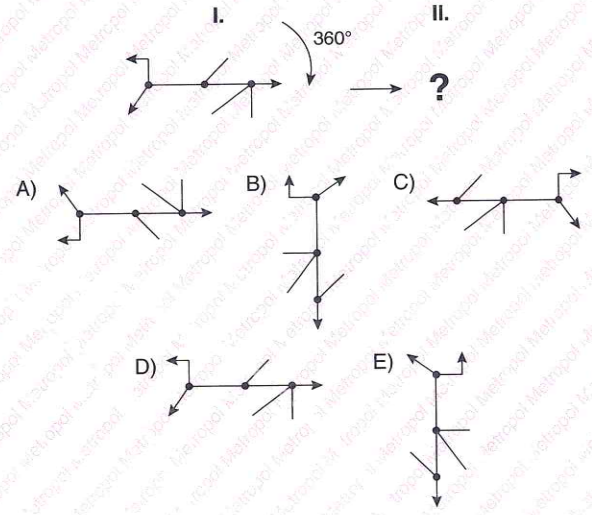
4.



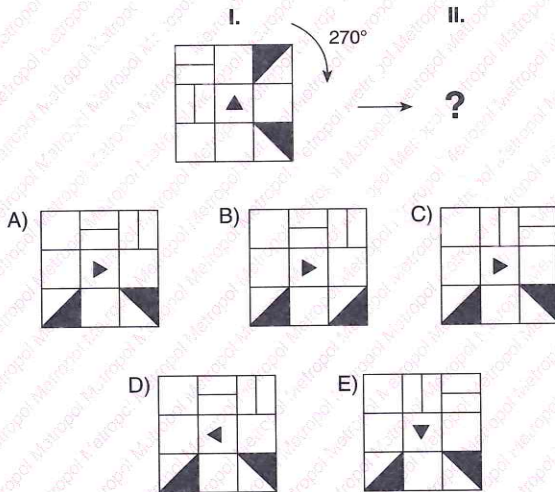
5.



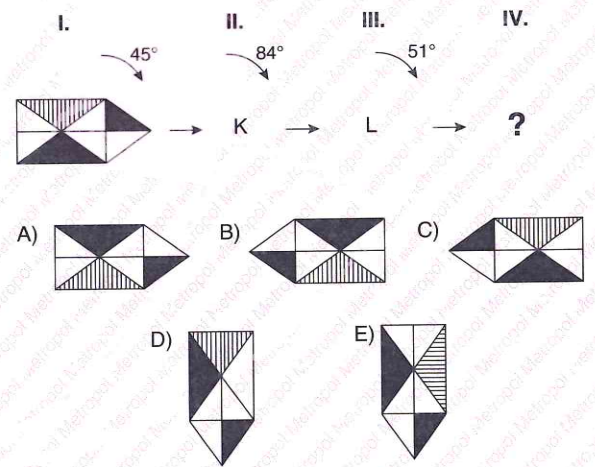
7.



6.



8.



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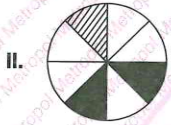
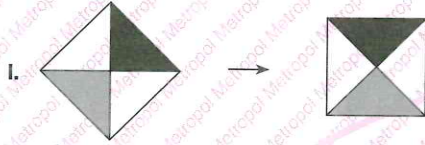


YANITLAR / ANSWERS

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

Aşağıdaki sorularda verilen şekiller ok yönünde ve belirtilen derecelerde döndürüldüğünde oluşan şekilleri bulunuz.
In the following questions, find the rotation of the given figure in the specified direction and angle.

1.



A)



B)



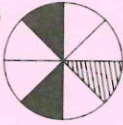
C)



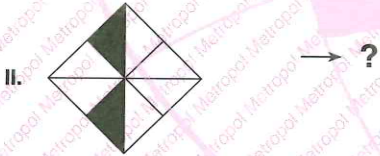
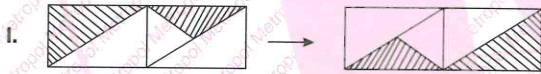
D)



E)



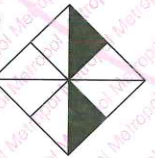
2.



A)



B)



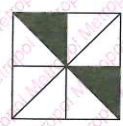
C)



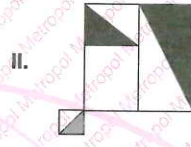
D)



E)



3.



A)



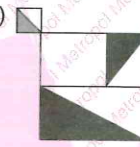
B)



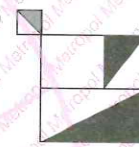
C)



D)



E)



4.



A)



B)



C)



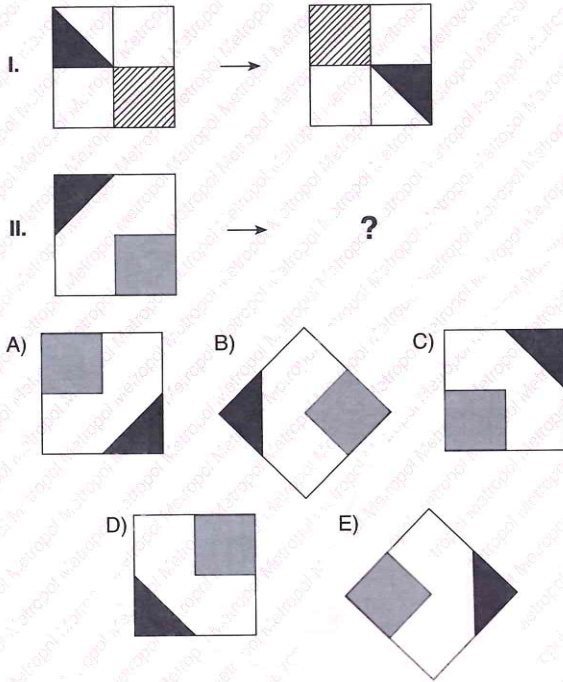
D)



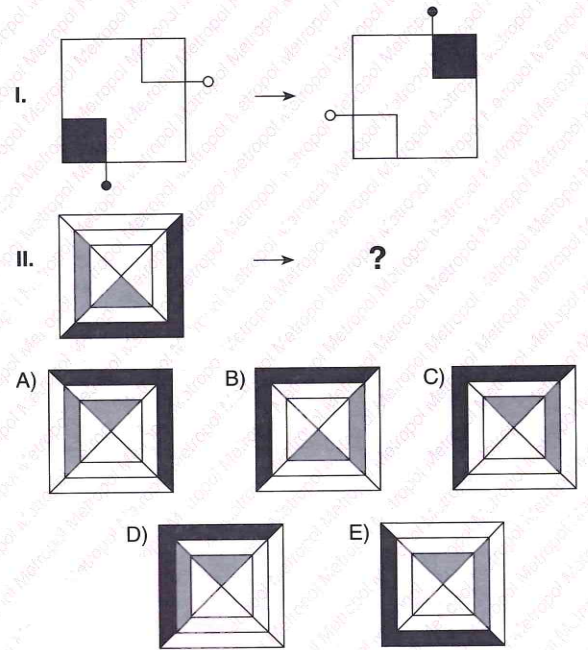
E)



5.



7.



6. I. DERİN → ƆƎƆ!Z

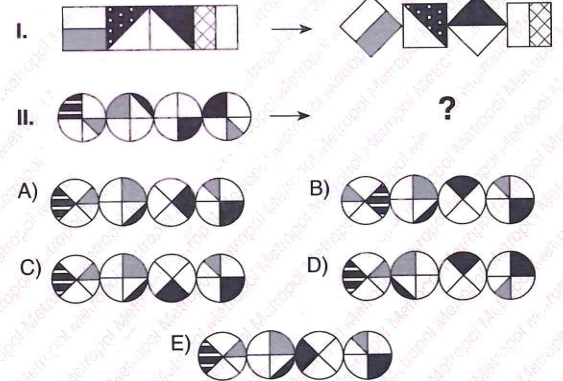
II. FATİH → ?

A) πA-!E B) πA-!E

C) πA-!E D) πA-!E

E) πA-!H

8.



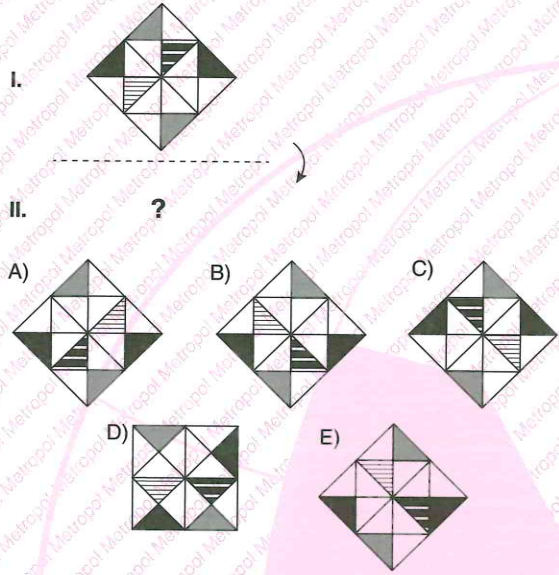
YANITLAR / ANSWERS

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

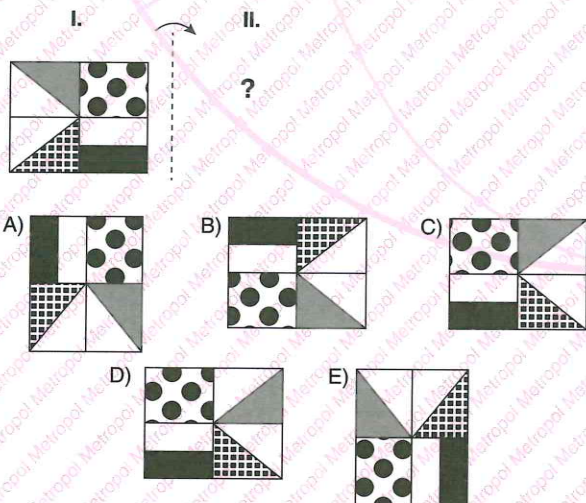
Aşağıdaki sorulardaki şekillerin verilen eksenlere göre simetrilerini bulunuz.

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

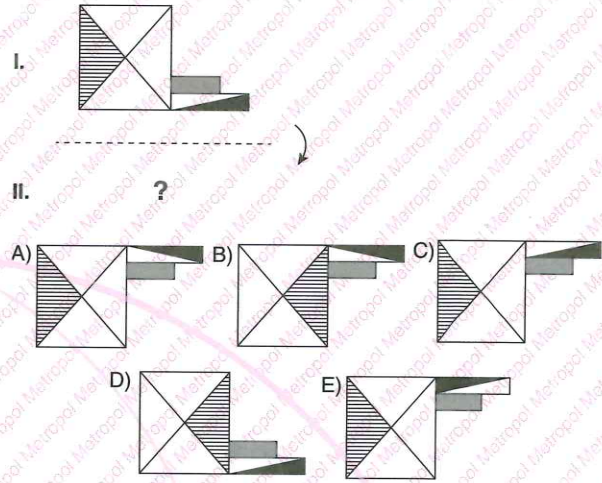
1.



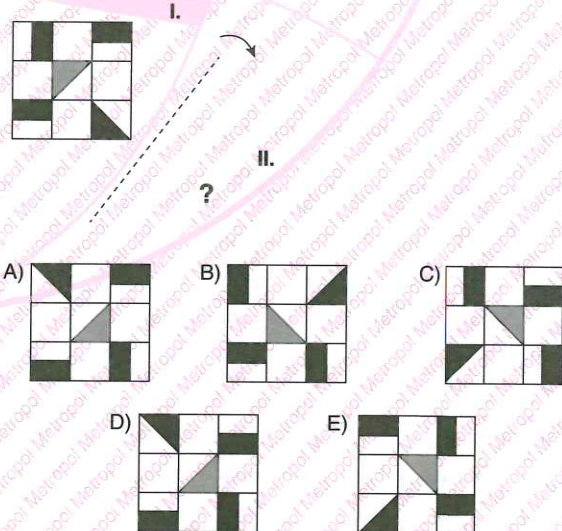
2.



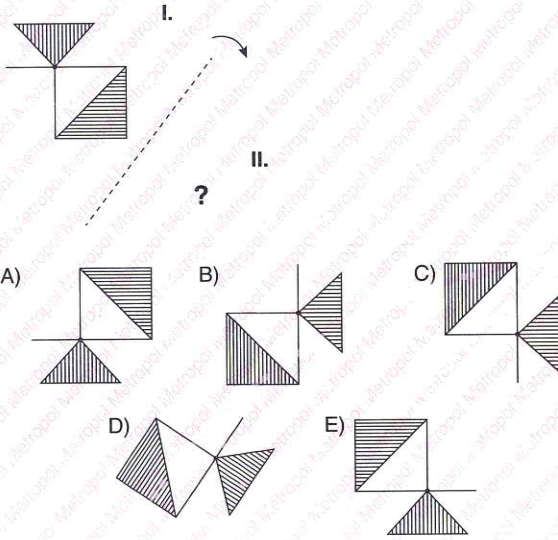
3.



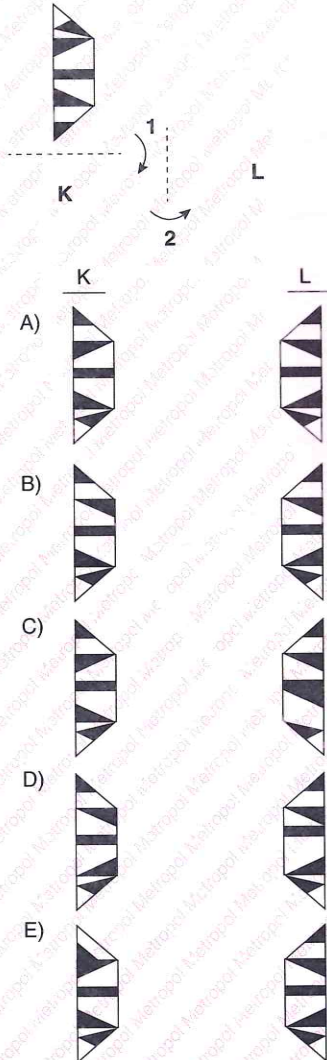
4.



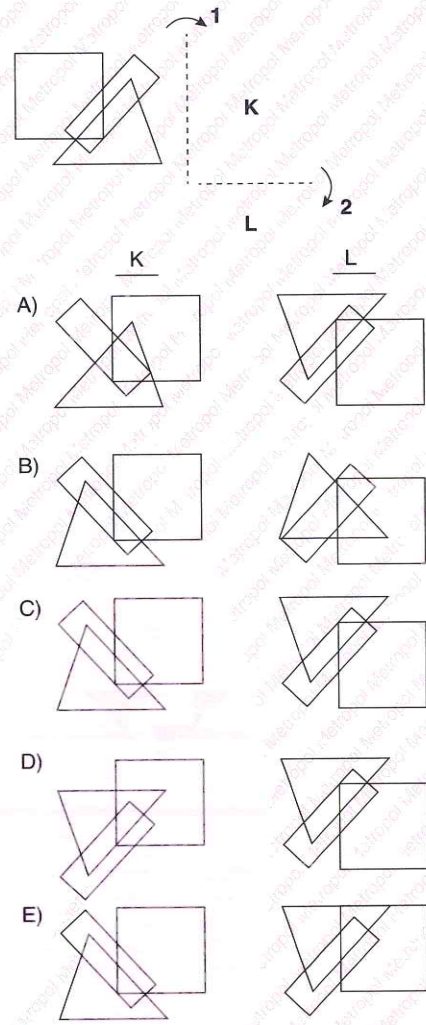
5.



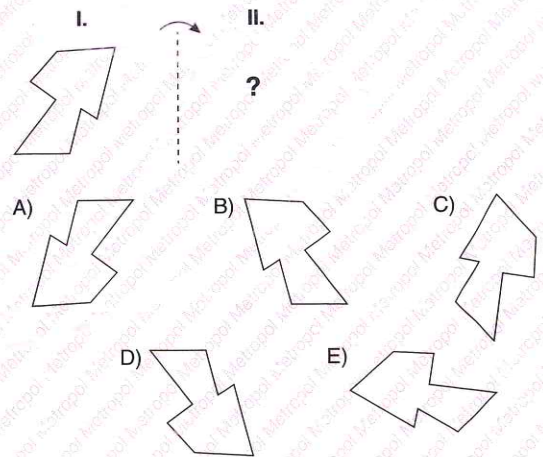
6.



7.



8.



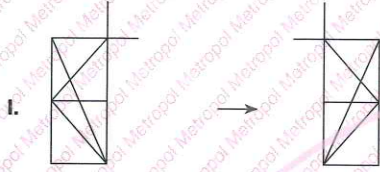
YANITLAR / ANSWERS

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

Aşağıdaki sorulardaki şekillerin verilen eksenlere göre simetrilerini bulunuz.

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

1.



II.



?

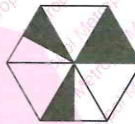
A)



B)



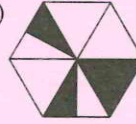
C)



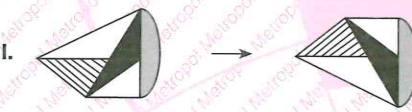
D)



E)



2.



II.



?

A)



B)



C)



D)



E)

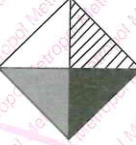


3.

I.



II.

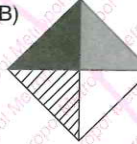


?

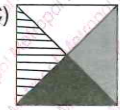
A)



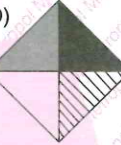
B)



C)



D)



E)



4.



II.



?

A)



B)



C)



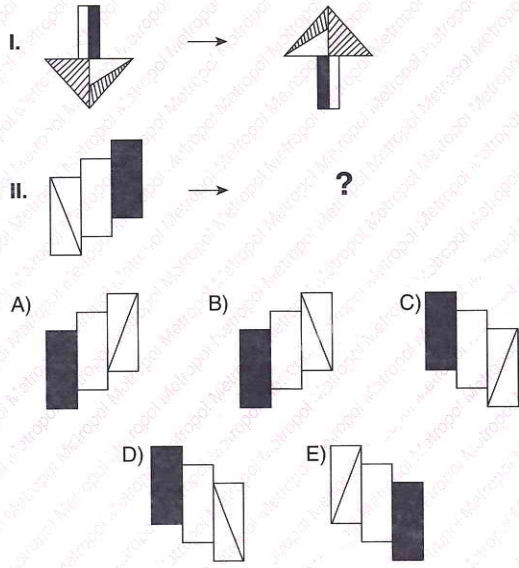
D)



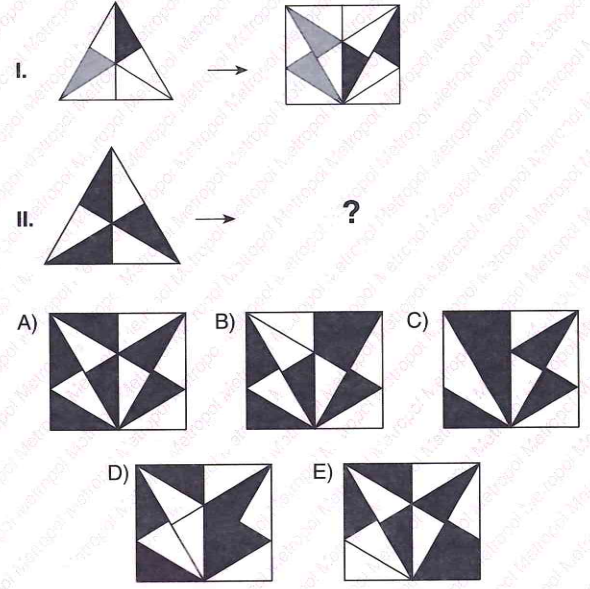
E)



5.

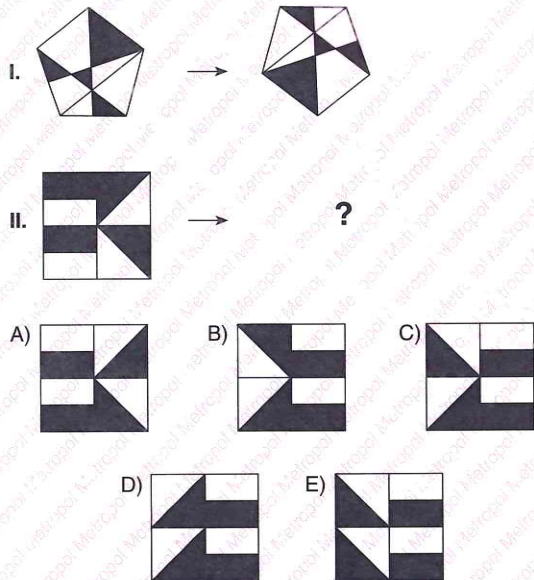


7.

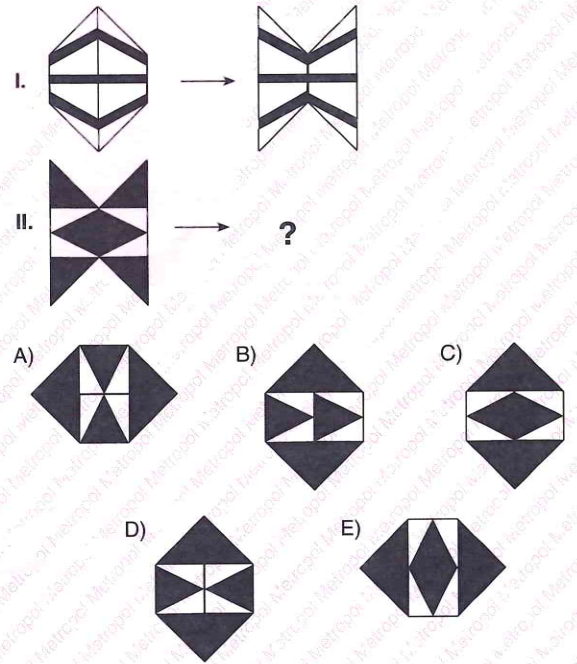


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6.



8.



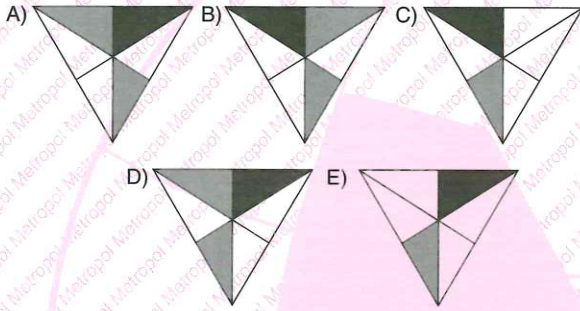
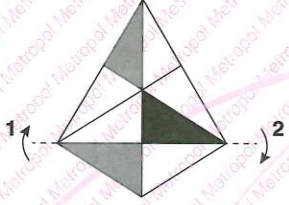
YANITLAR / ANSWERS

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

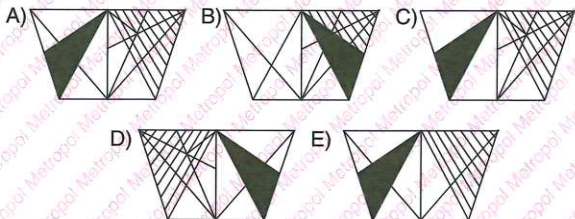
Aşağıdaki sorularda verilen şekiller gösterilen eksenlere göre katlandığında oluşan şekilleri bulunuz.

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

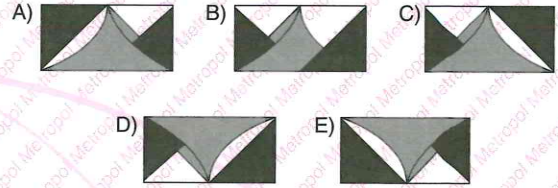
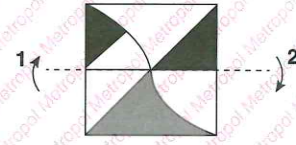
1.



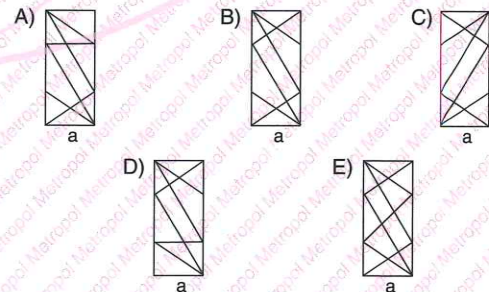
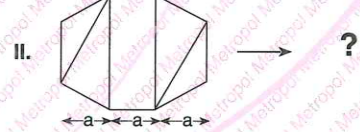
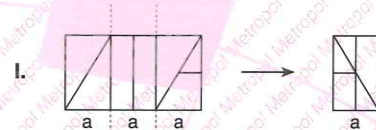
2.



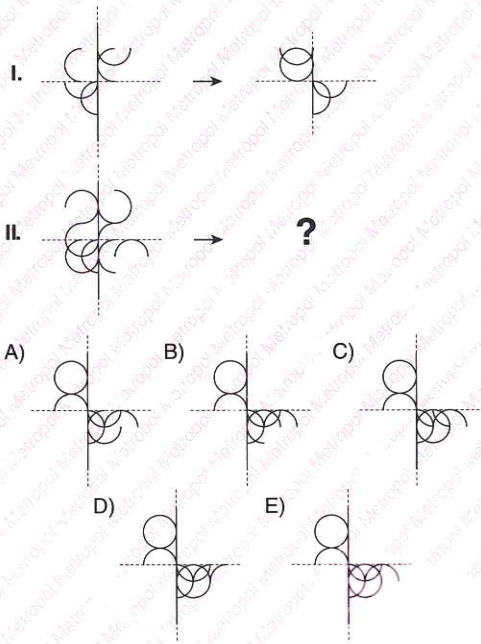
3.



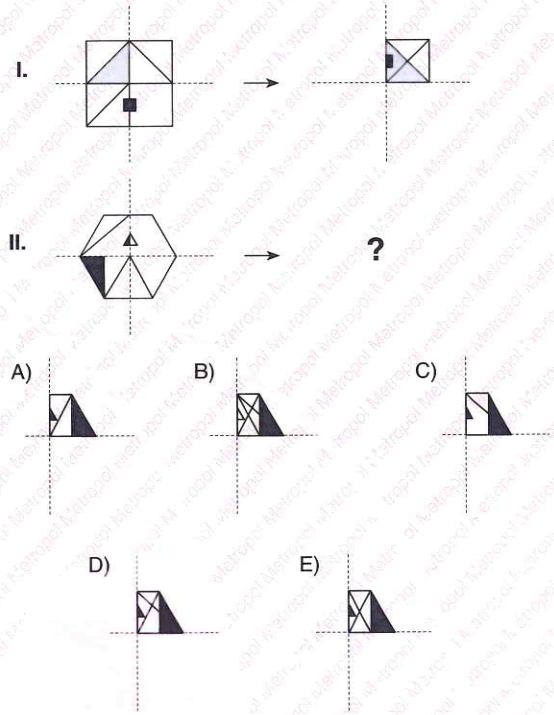
4.



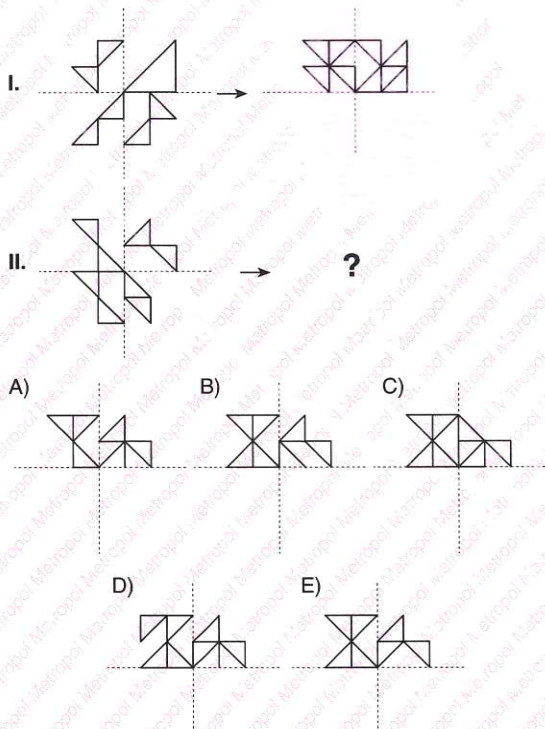
5.



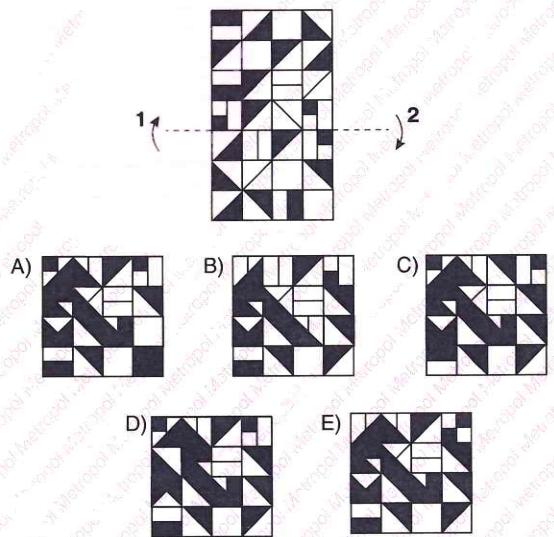
7.



6.



8.



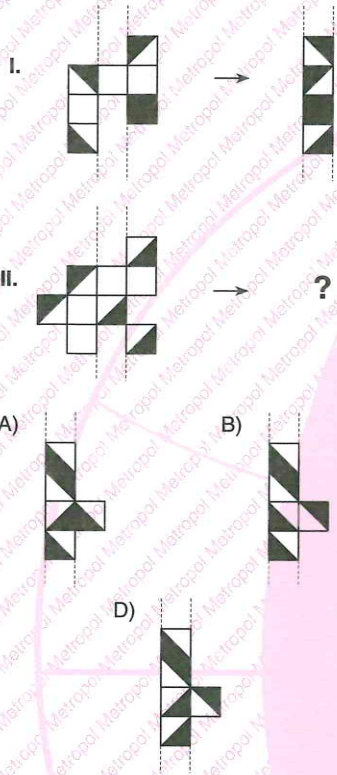
YANITLAR / ANSWERS

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

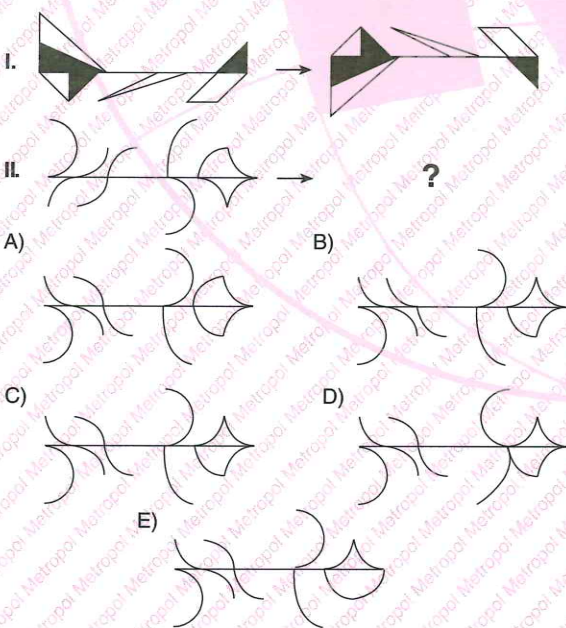
Aşağıdaki sorularda verilen şekiller gösterilen eksenlere göre katlandığında oluşan şekilleri bulunuz.

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

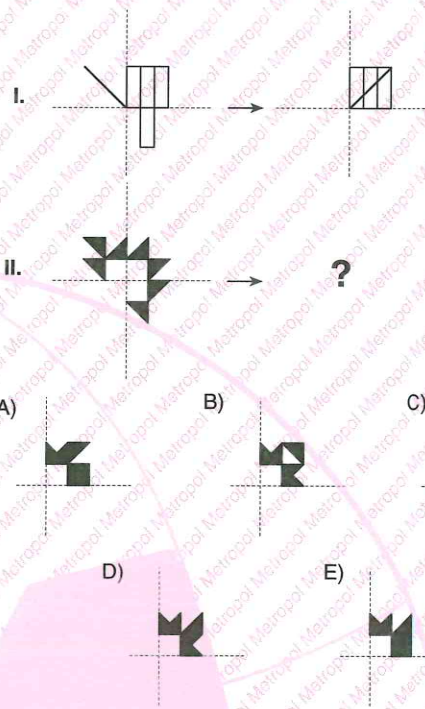
1.



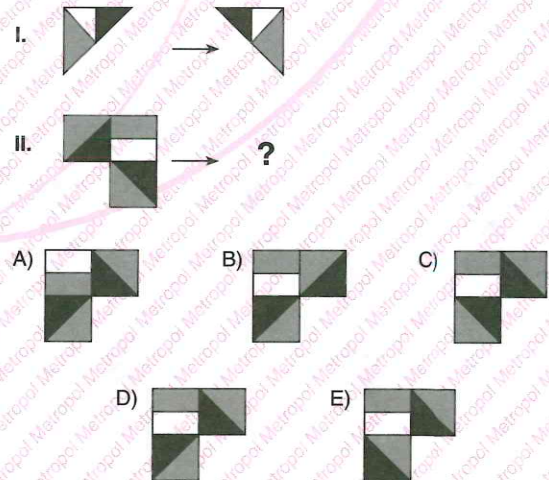
2.



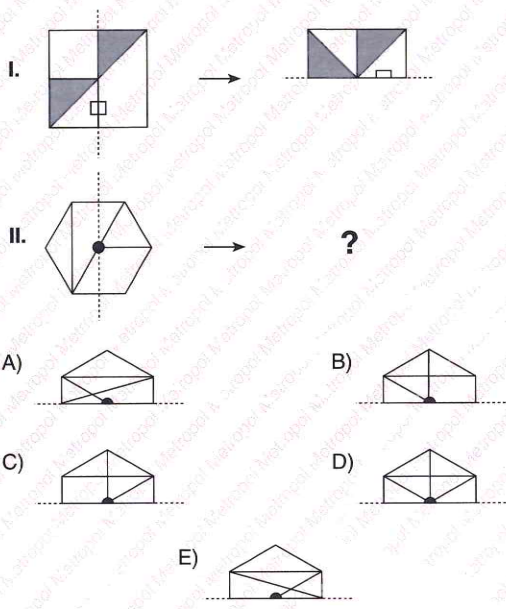
3.



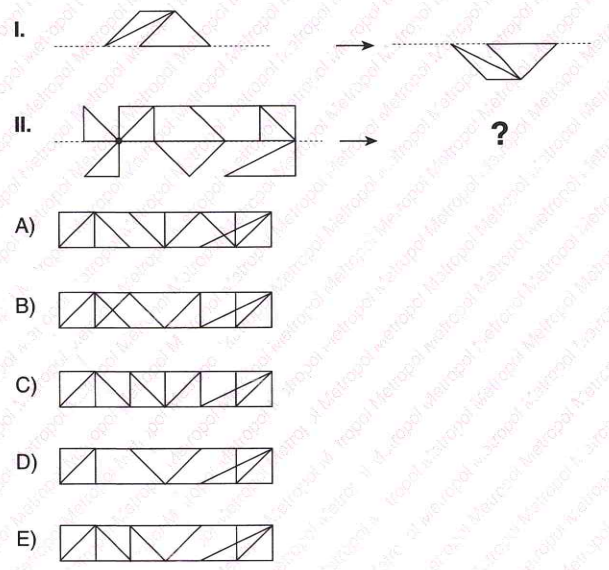
4.



5.

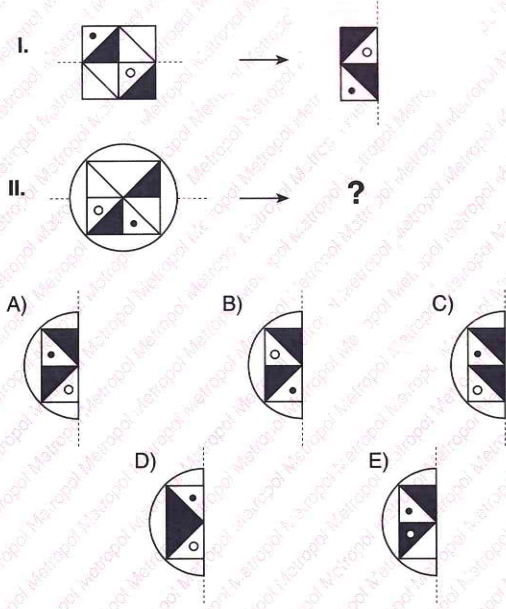


7.

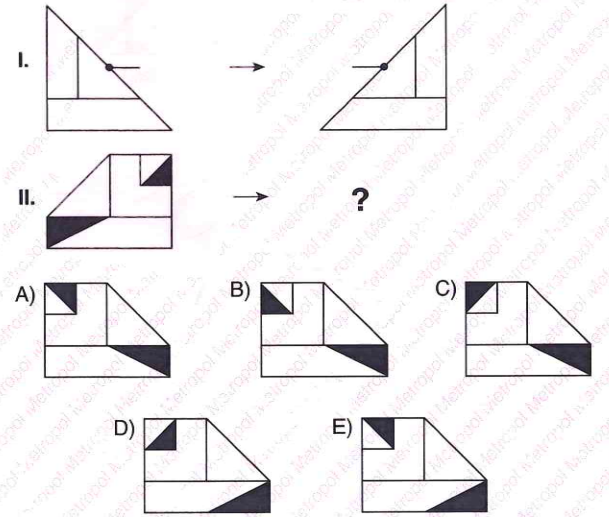


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6.



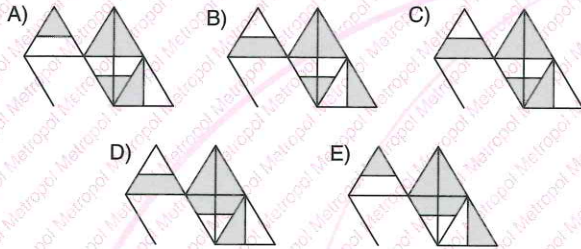
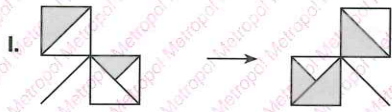
8.



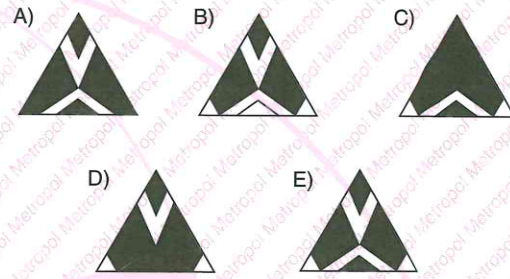
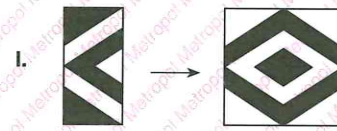
YANITLAR / ANSWERS

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

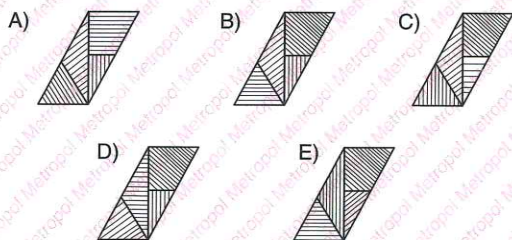
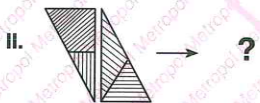
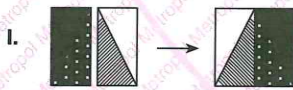
1.



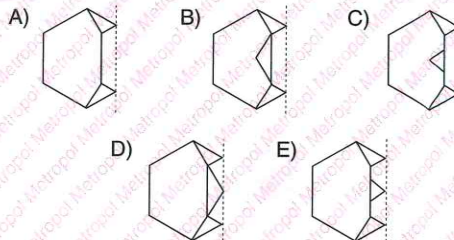
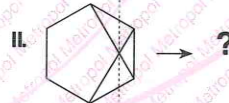
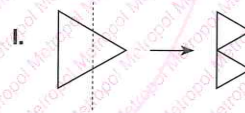
3.



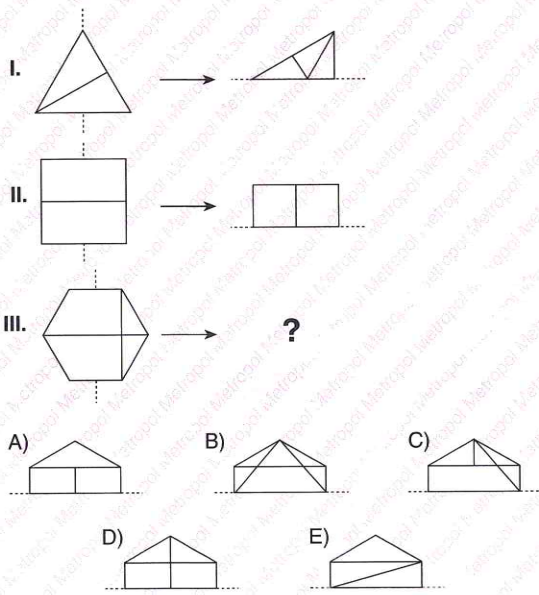
2.



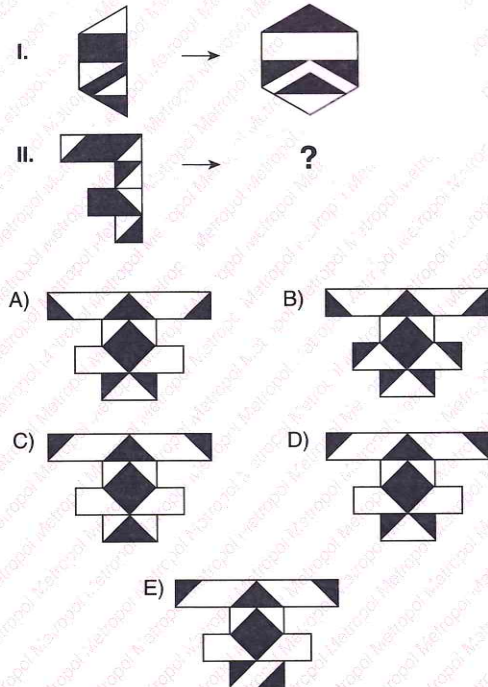
4.



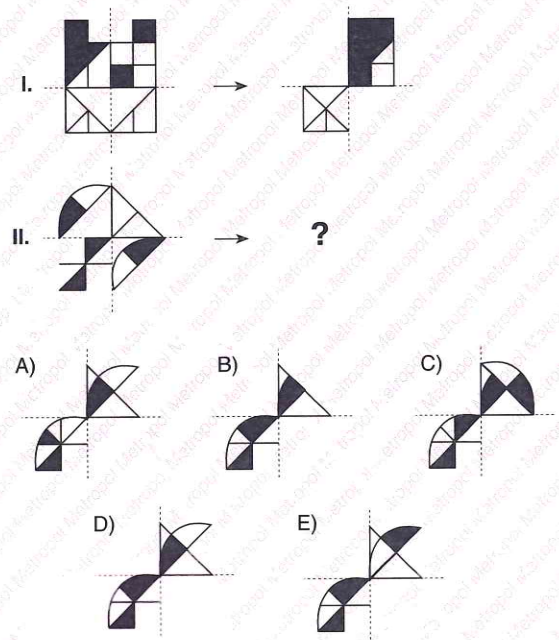
5.



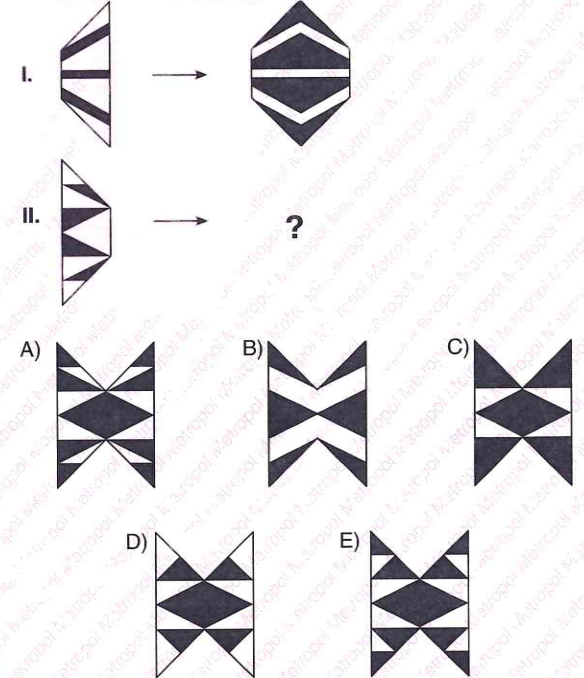
6.



7.



8.

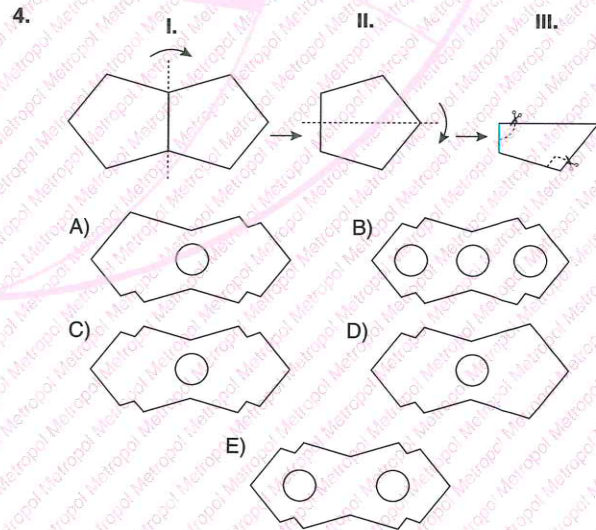
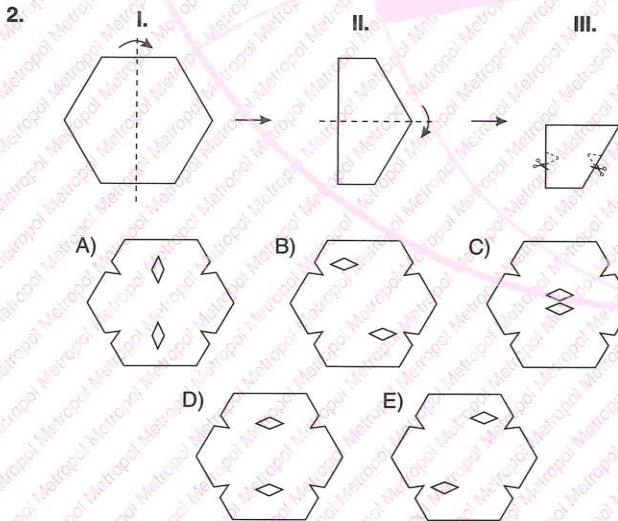
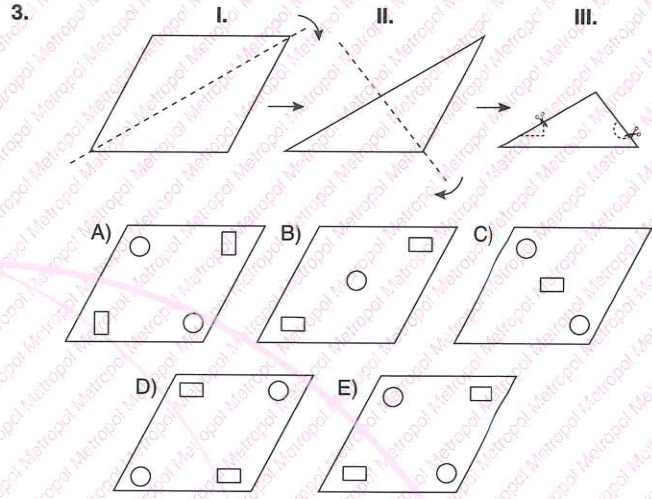
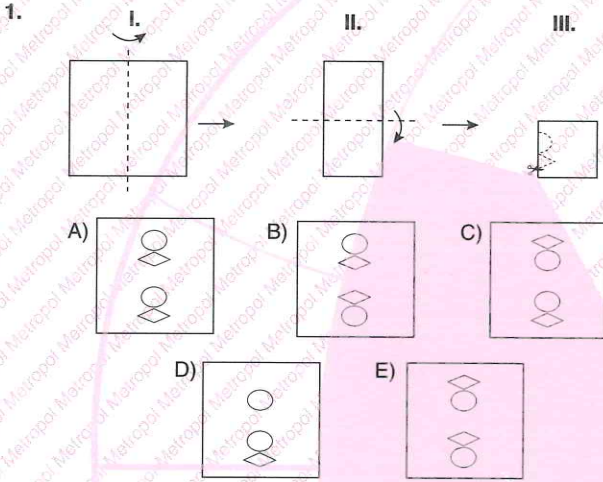


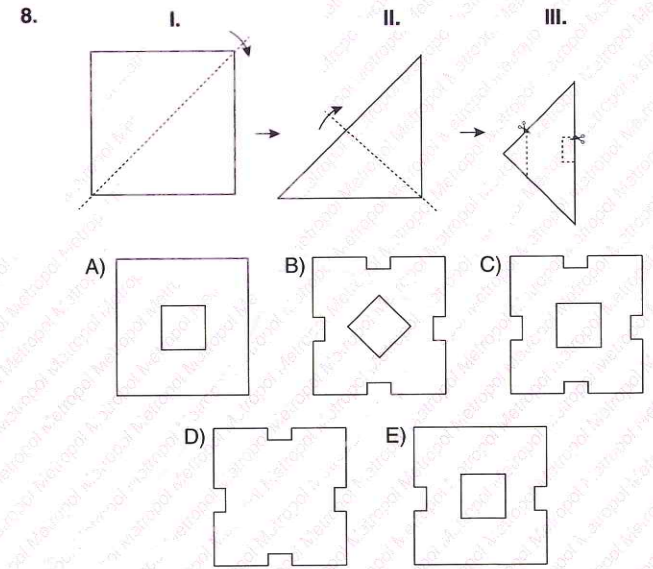
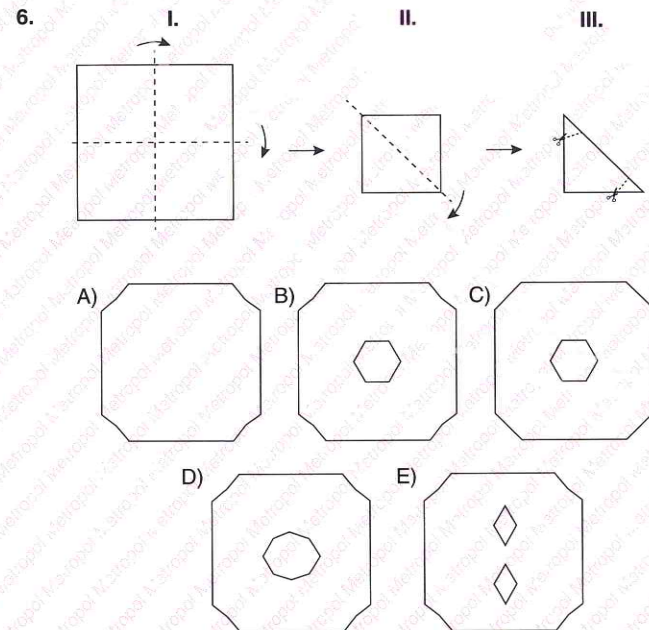
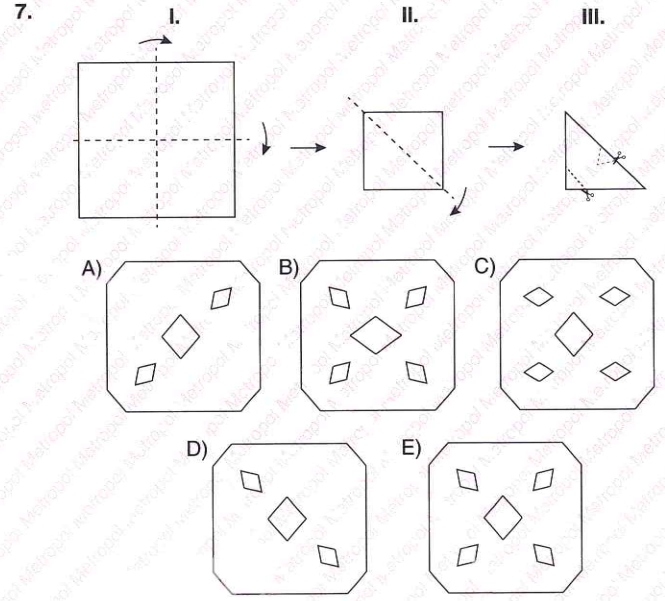
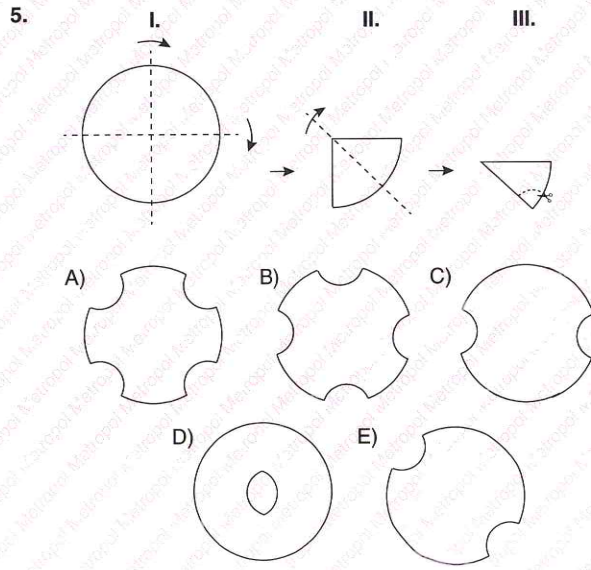
YANITLAR / ANSWERS

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

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 in 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.



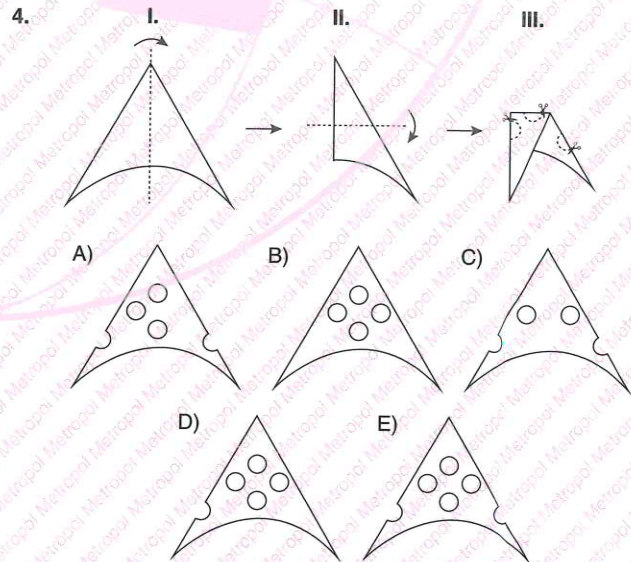
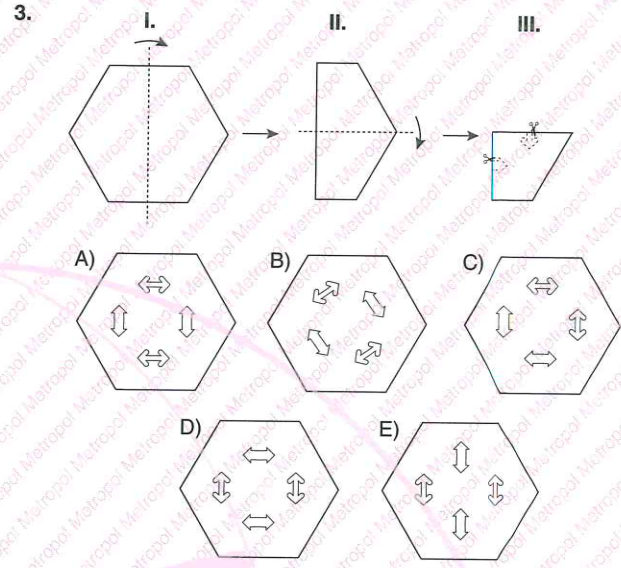
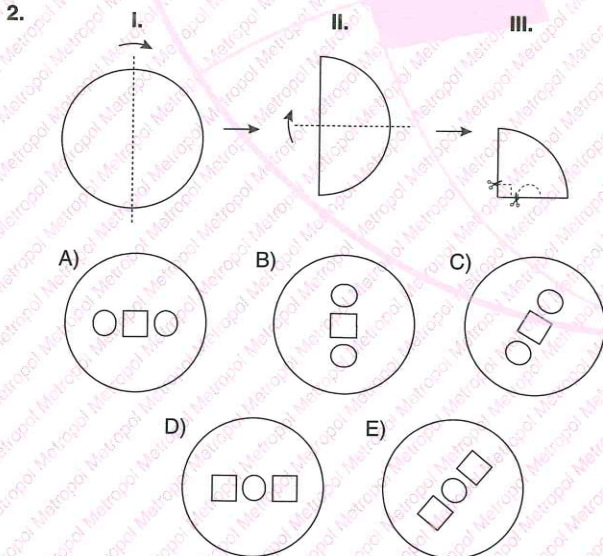
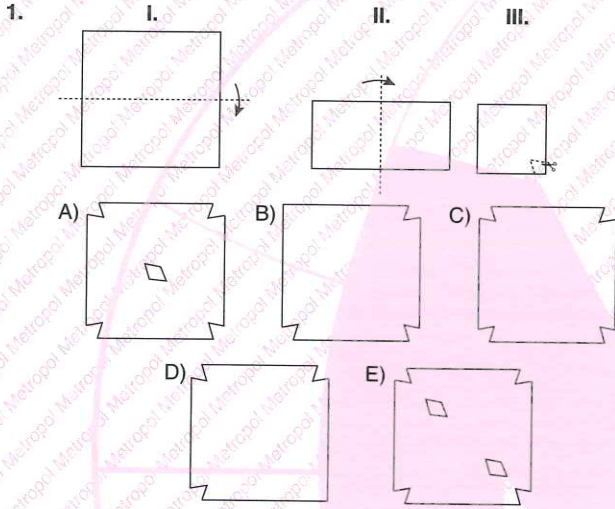


YANITLAR / ANSWERS

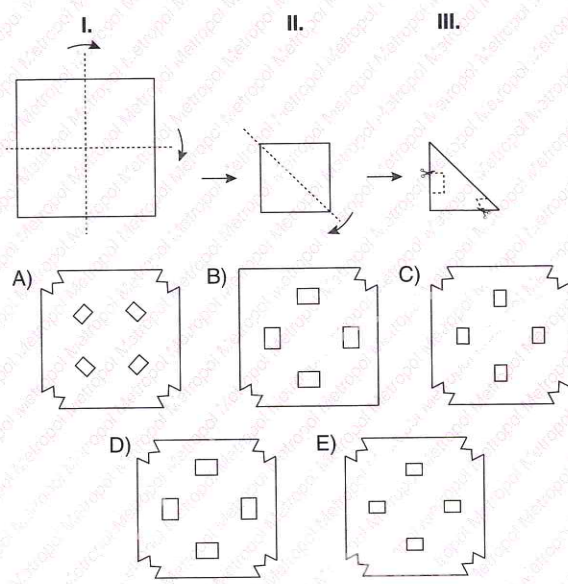
1	C	3	E	5	A	7	E
2	D	4	C	6	D	8	C

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.

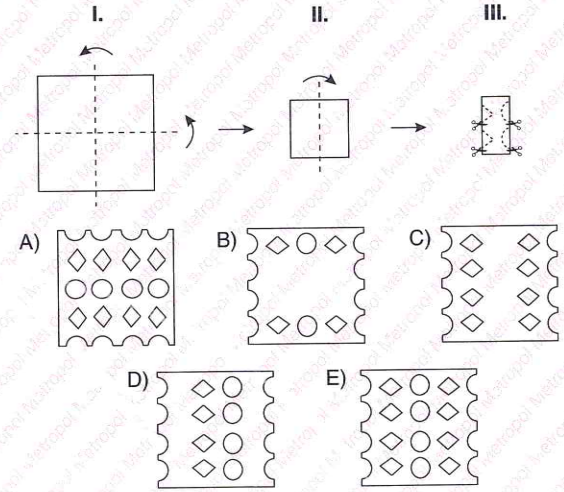
In the following questions, figures given in step I are folded according to the given axes in sequence to form the figure in last step, and then marked areas get cut and removed. Accordingly, find the figures formed by unfolding the figures of last step according to the given folding axes without changing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



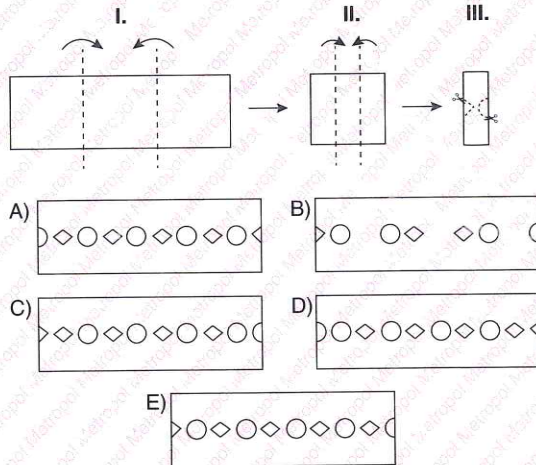
5.



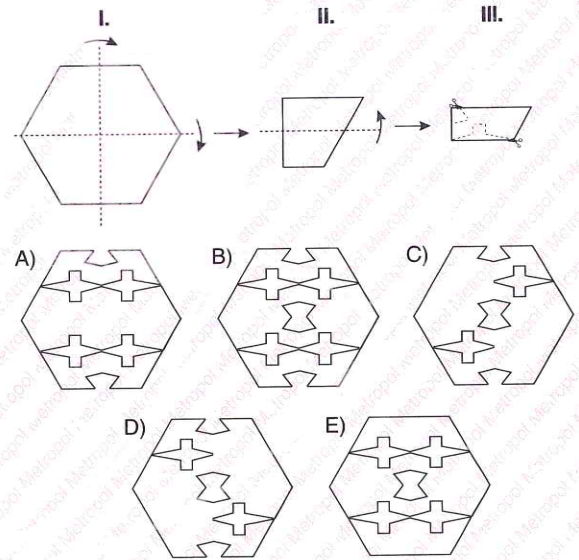
7.



6.



8.



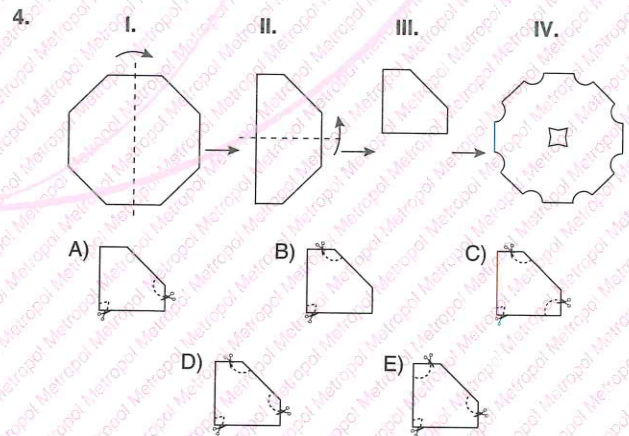
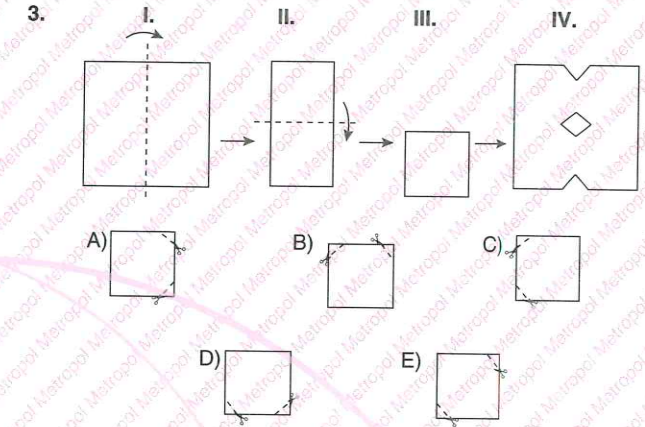
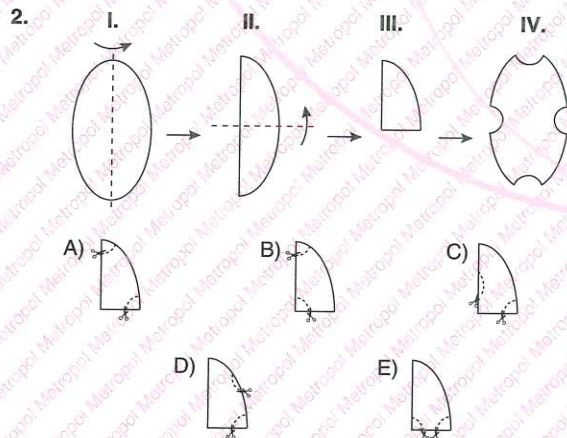
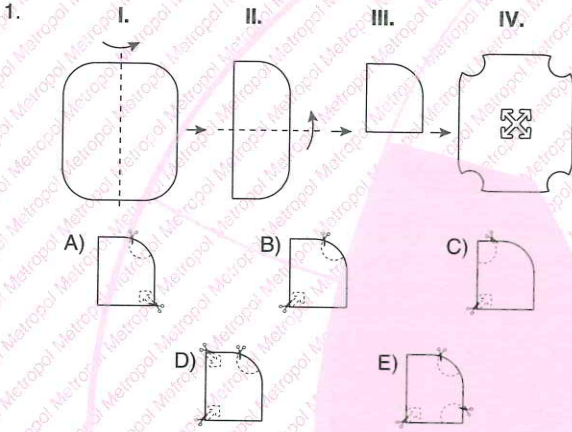
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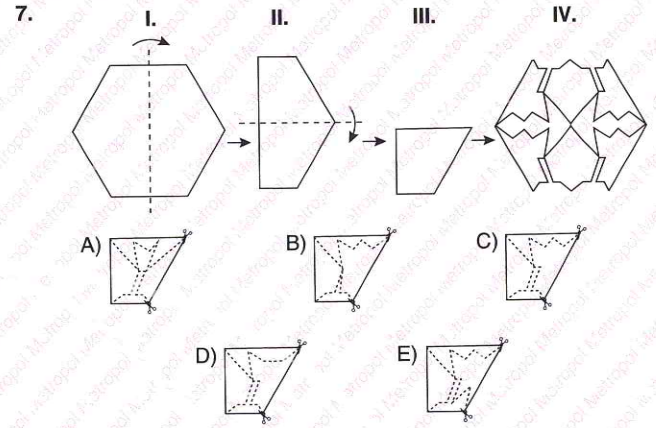
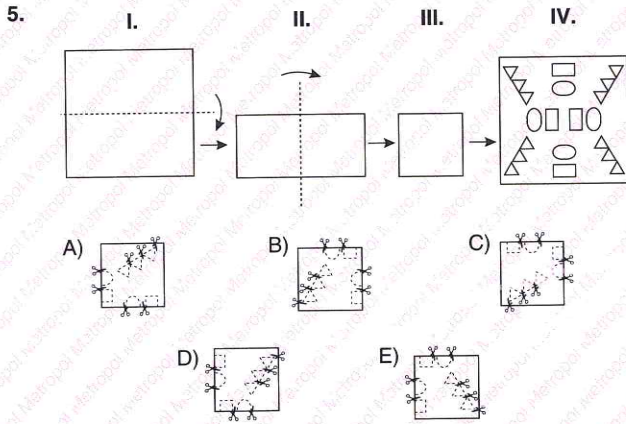
YANITLAR / ANSWERS

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

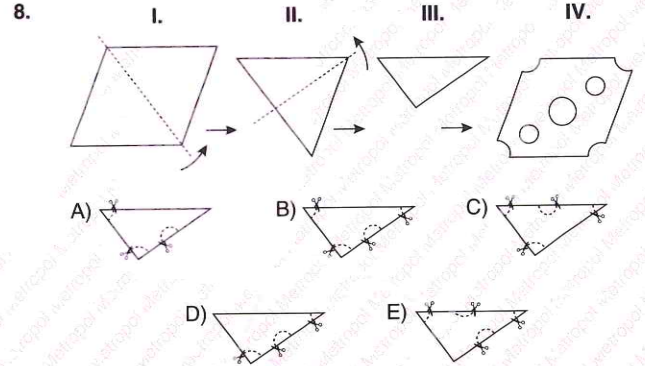
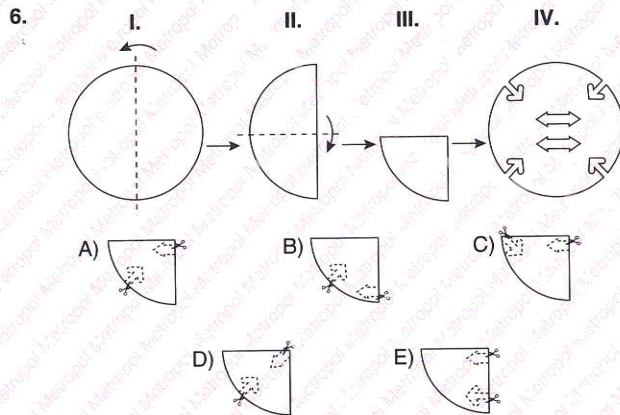
Aşağıdaki sorularda, I. adımlarda verilen şekiller katlanarak III. adımdaki şekiller elde ediliyor, ardından III. adımlardaki şekiller makas ile bir doğrultu boyunca kesiliyor. Kesilen parçalar atıldıktan sonra şekiller tekrar açıldığında IV. adımdaki şekiller elde ediliyor. Buna göre her bir sorudaki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





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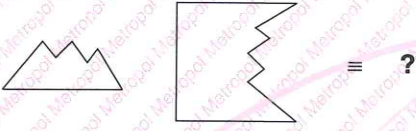
1	B	3	C	5	E	7	C
2	A	4	D	6	A	8	B

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)



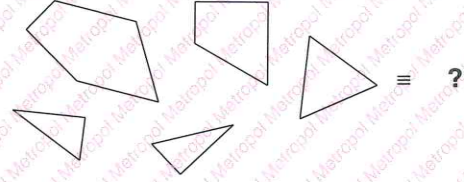
E)



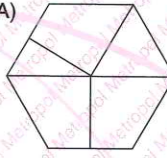
3.

I.

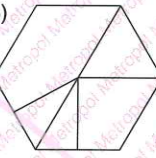
II.



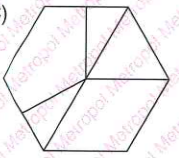
A)



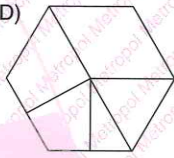
B)



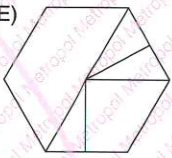
C)



D)



E)



2.

I.

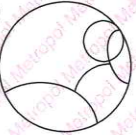
II.



A)



B)



C)



D)



E)



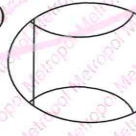
4.

I.

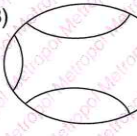
II.



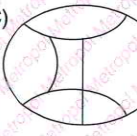
A)



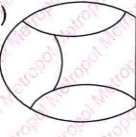
B)



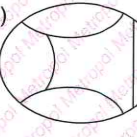
C)



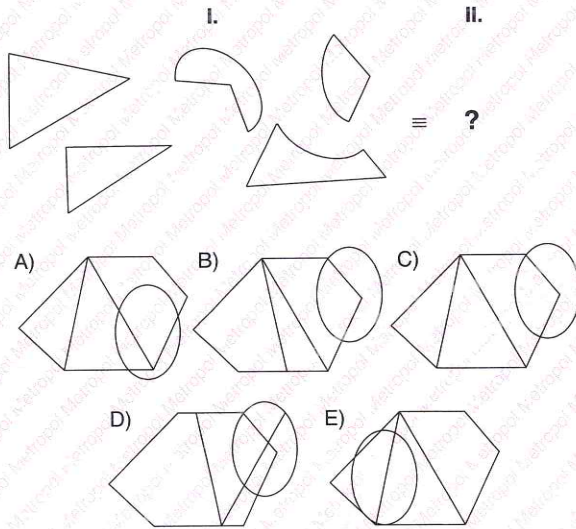
D)



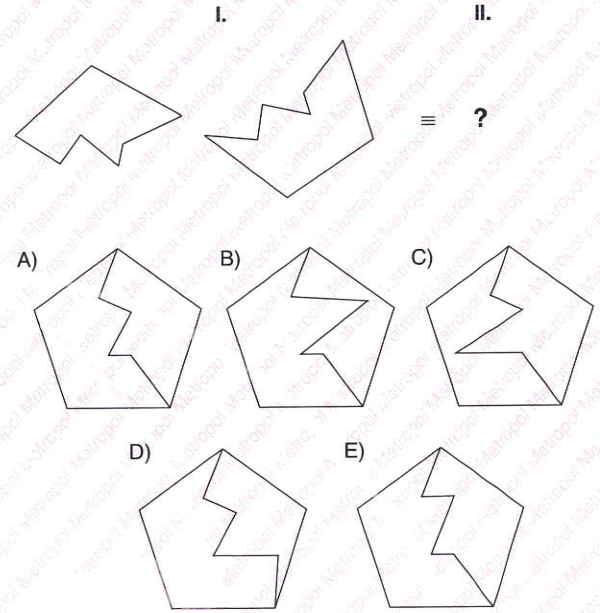
E)



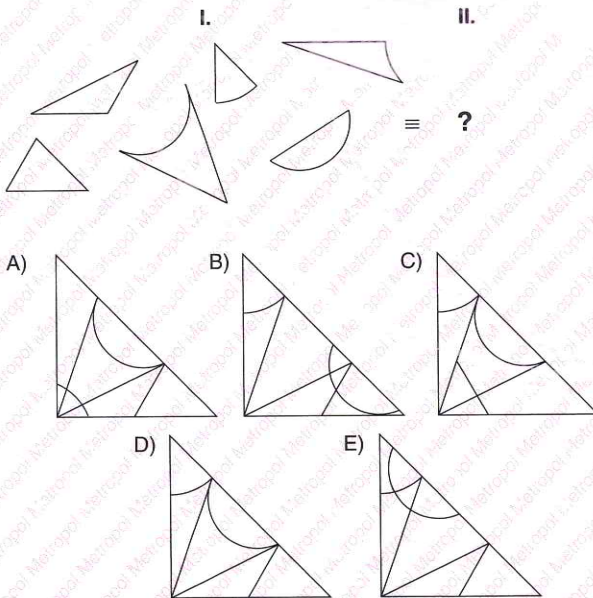
5.



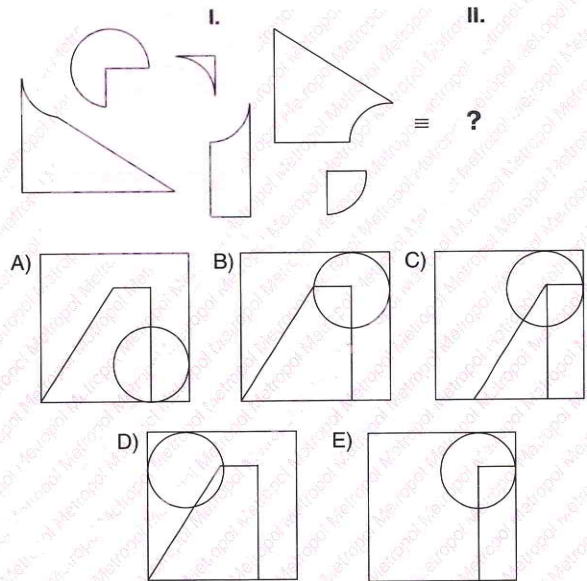
7.



6.



8.



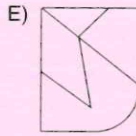
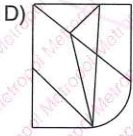
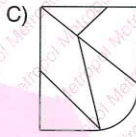
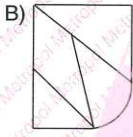
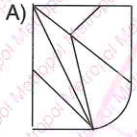
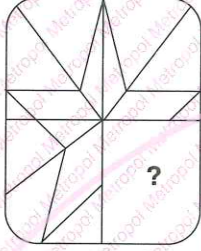
YANITLAR / ANSWERS

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

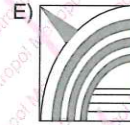
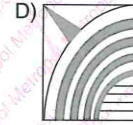
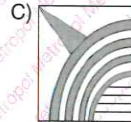
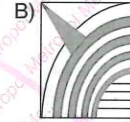
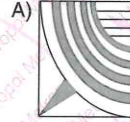
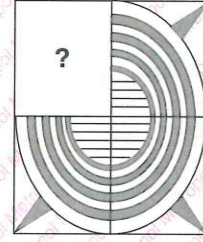
Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

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

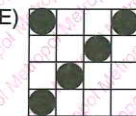
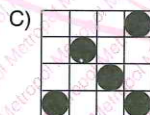
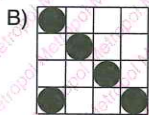
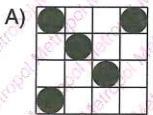
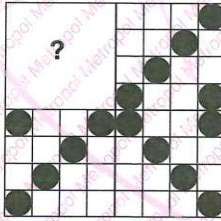
1.



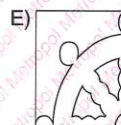
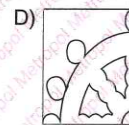
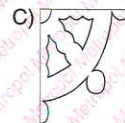
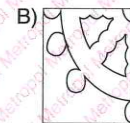
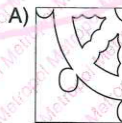
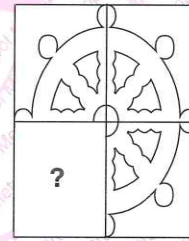
3.



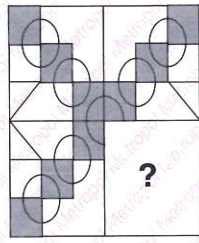
2.



4.

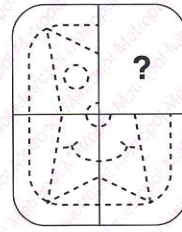


5.



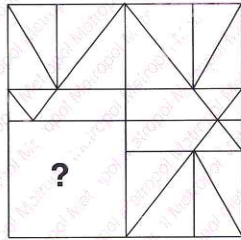
- A) B) C) D) E)

7.



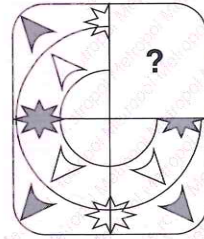
- A) B) C) D) E)

6.



- A) B) C) D) E)

8.



- A) B) C) D) E)



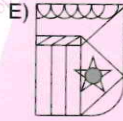
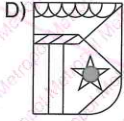
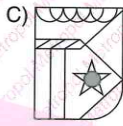
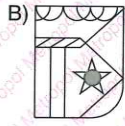
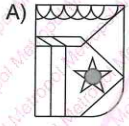
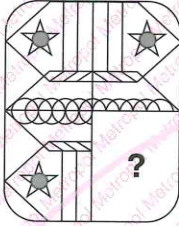
YANITLAR / ANSWERS

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

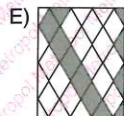
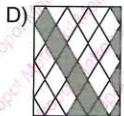
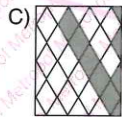
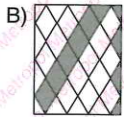
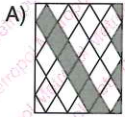
Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

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

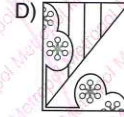
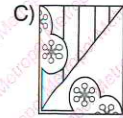
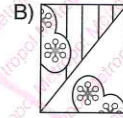
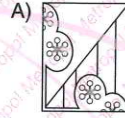
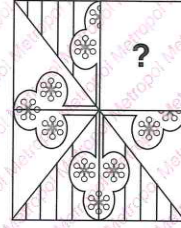
1.



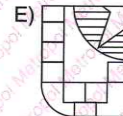
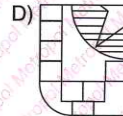
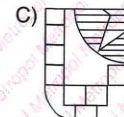
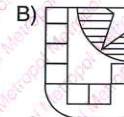
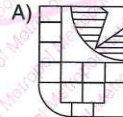
2.



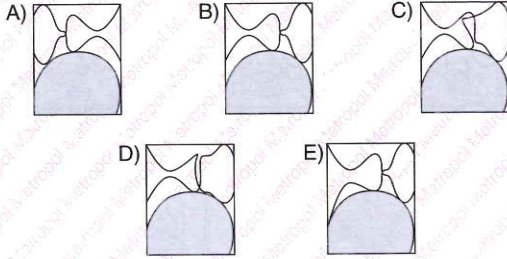
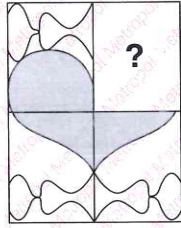
3.



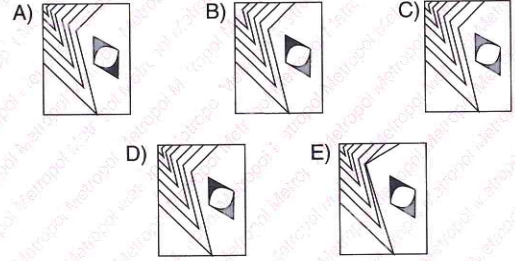
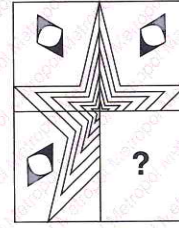
4.



5.

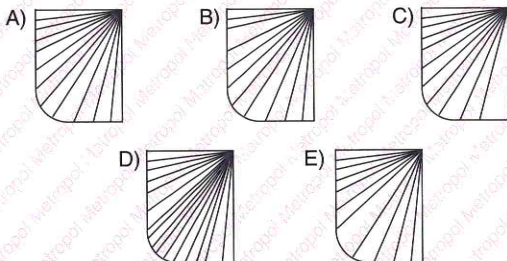
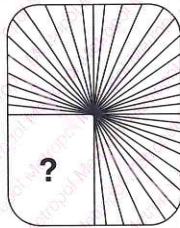


7.

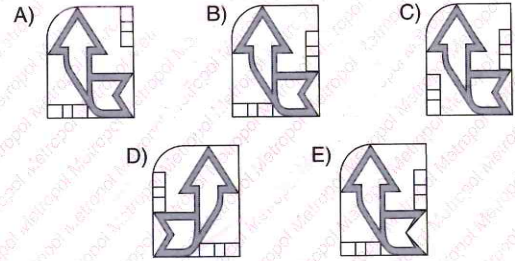
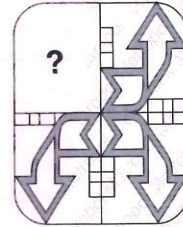


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6.



8.



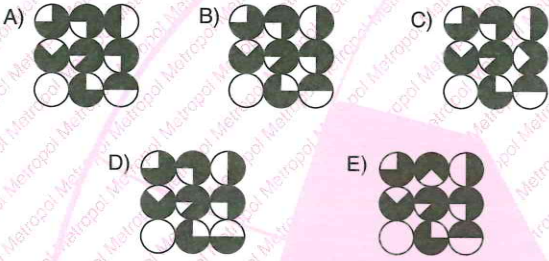
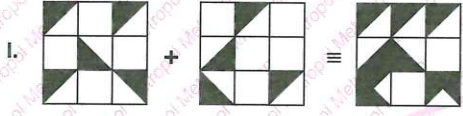
YANITLAR / ANSWERS

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

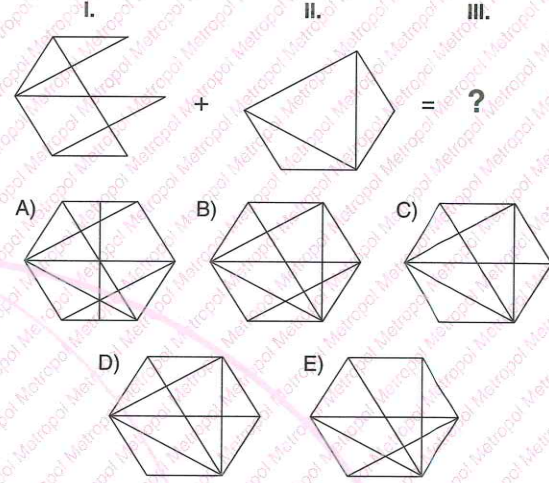
1. – 5. sorularda I. adımdaki şekillerle II. adımdaki şekiller toplandığında oluşan şekilleri bulunuz.

In the questions, 1. – 5 find the figures formed when collecting figures in step I and step II.

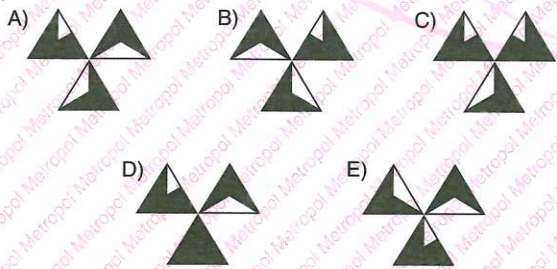
1.



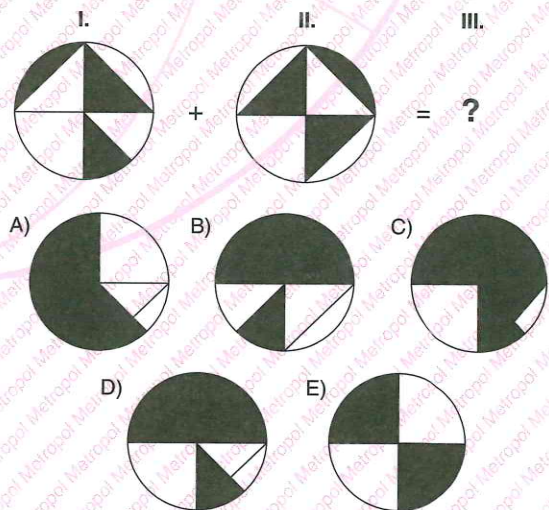
3.

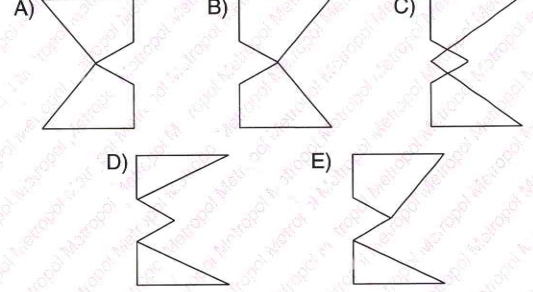
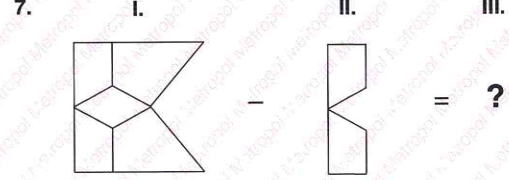
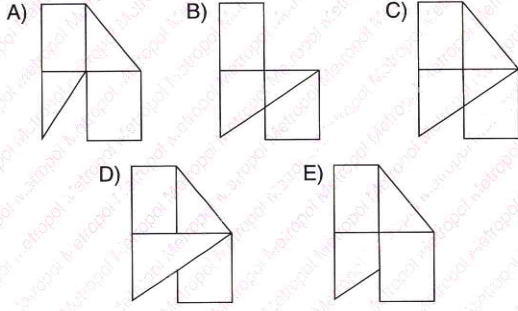
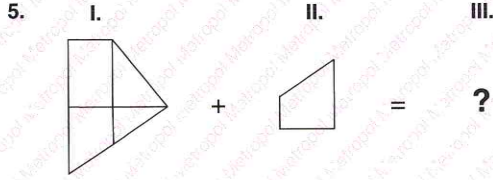


2.

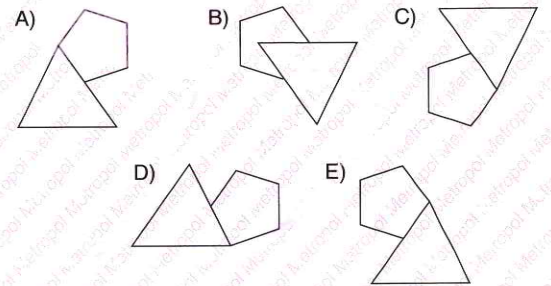
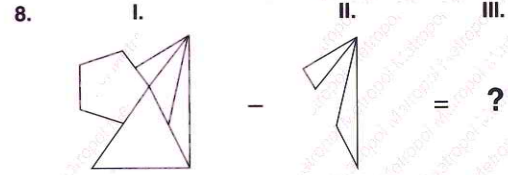
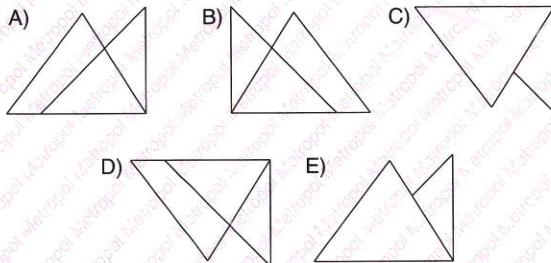
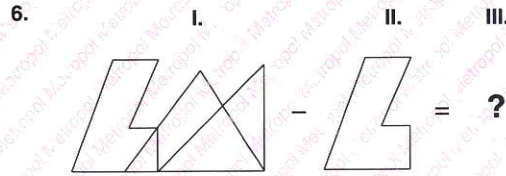


4.





6. – 8. sorularda I. adımdaki şekillerden II. adımdaki şekiller çıkartıldığında oluşan şekilleri bulunuz.
In the questions 6. – 8, find the figures formed when extracting figures in step II from step I.

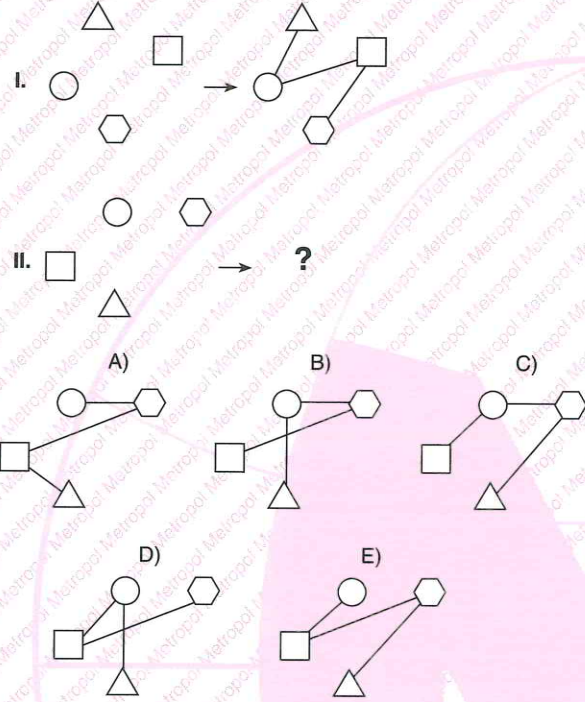


YANITLAR / ANSWERS

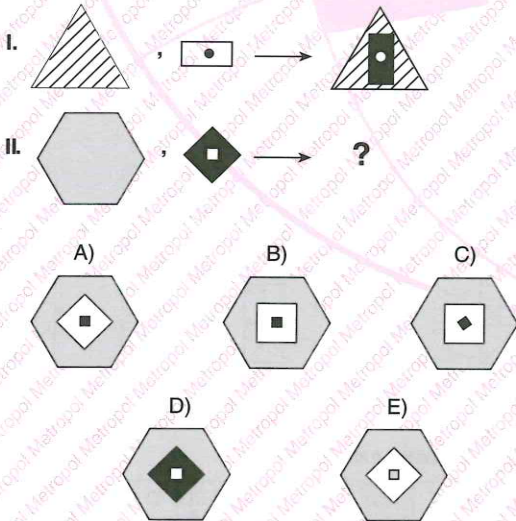
1	B	3	B	5	C	7	B
2	A	4	C	6	A	8	E

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.

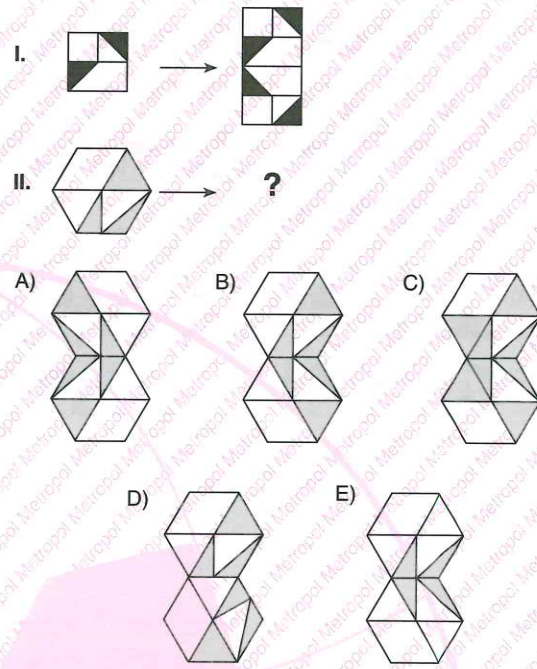
1.



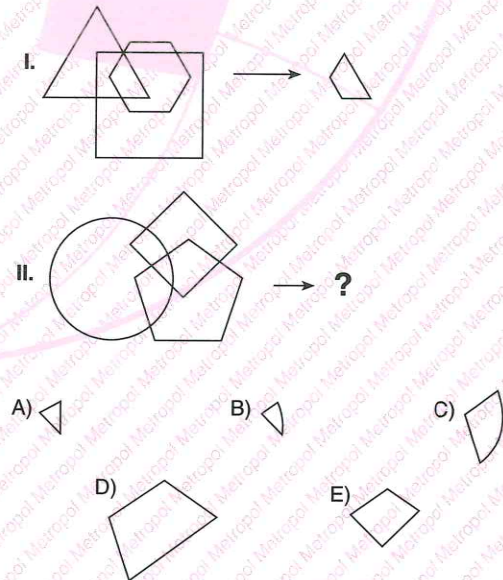
2.



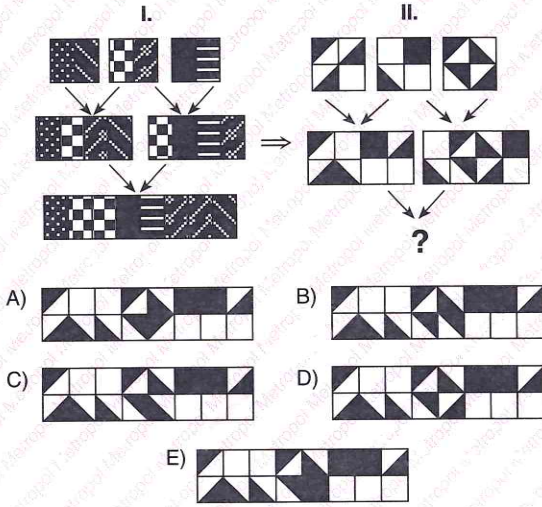
3.



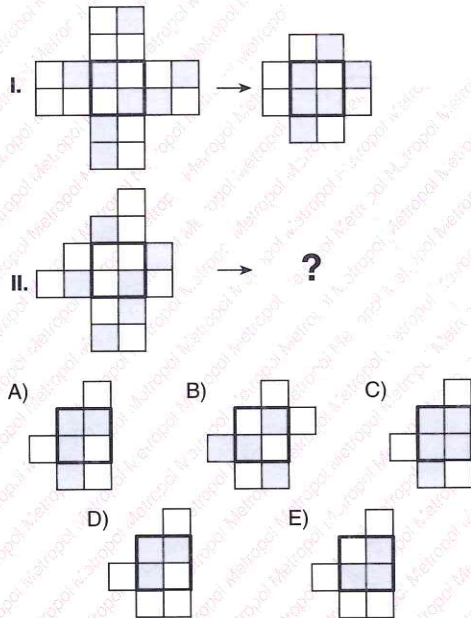
4.



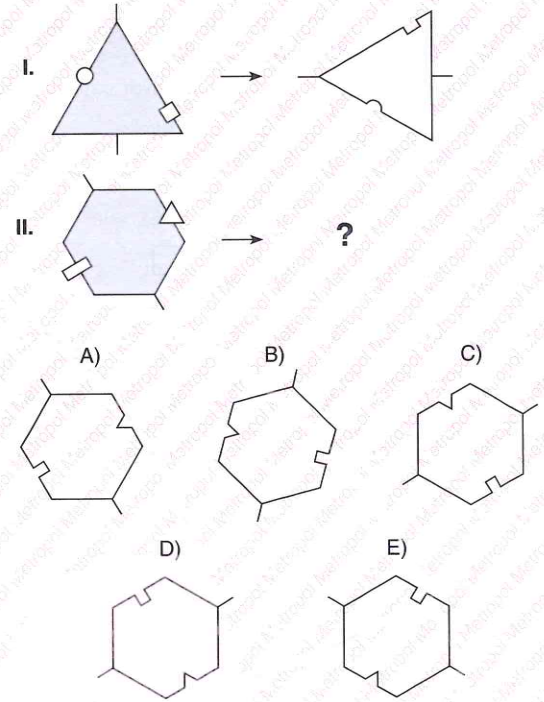
5.



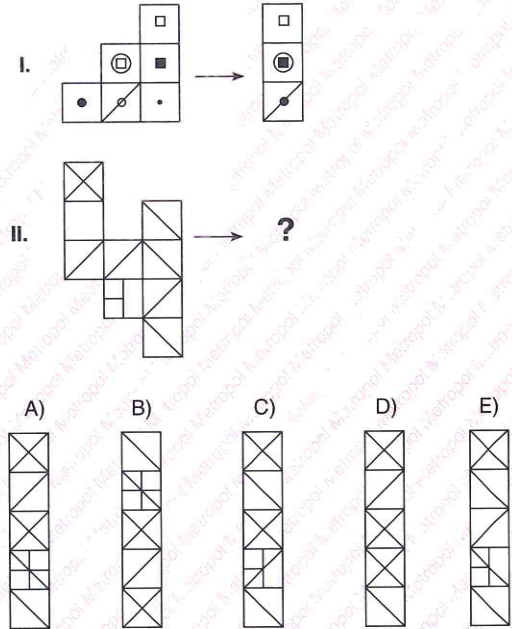
6.



7.



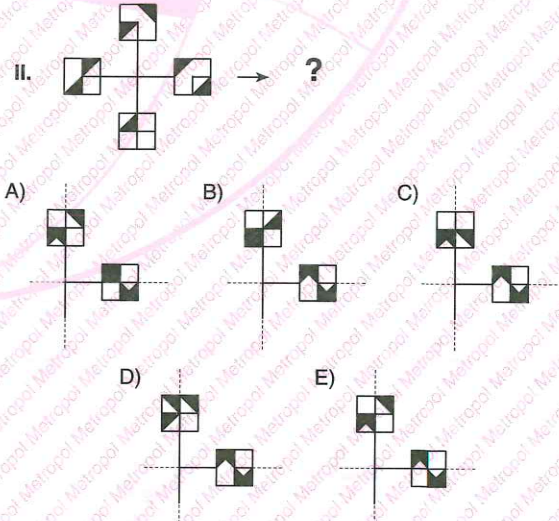
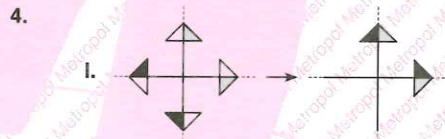
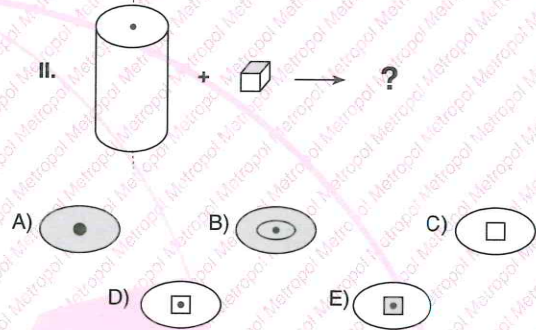
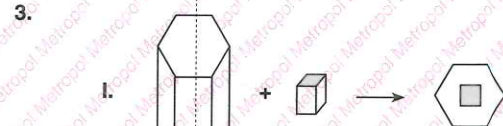
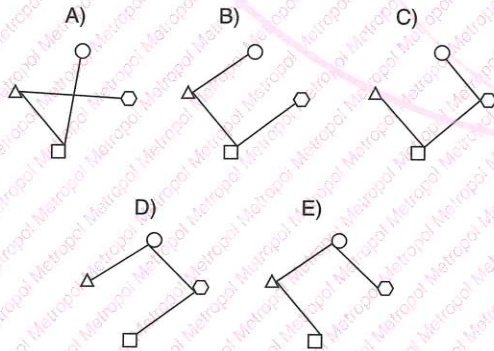
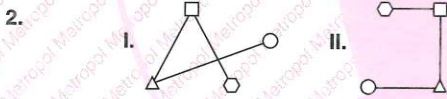
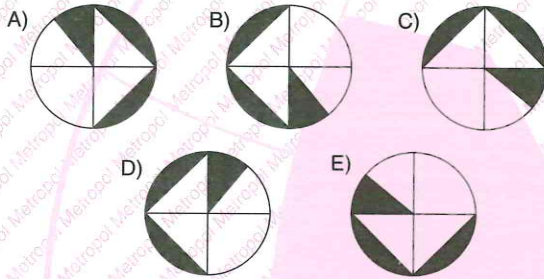
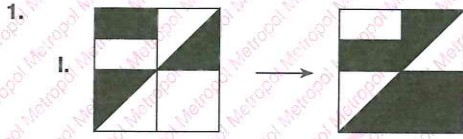
8.



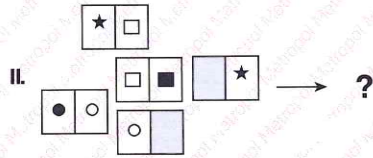
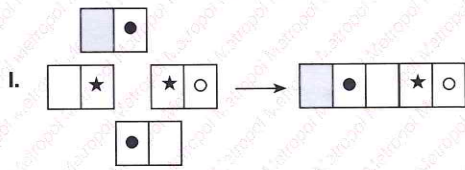
YANITLAR / ANSWERS

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

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.

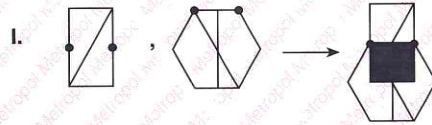


5.



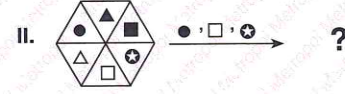
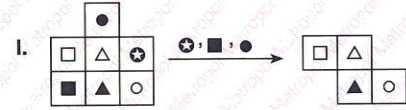
- A)
- B)
- C)
- D)
- E)

6.



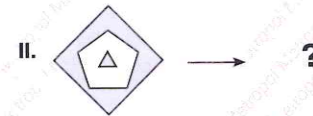
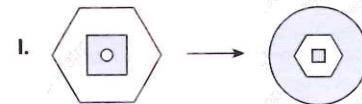
- A)
- B)
- C)
- D)
- E)

7.



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

8.



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

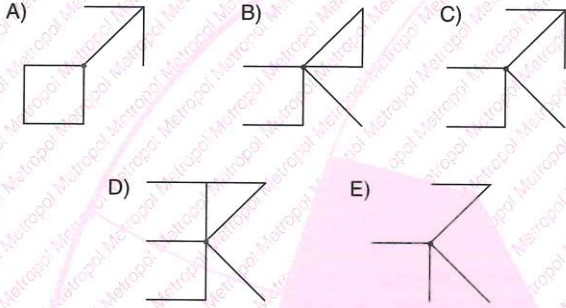
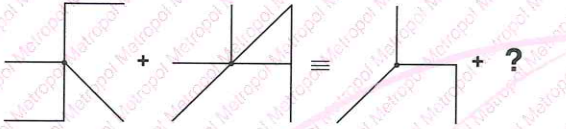
YANITLAR / ANSWERS

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

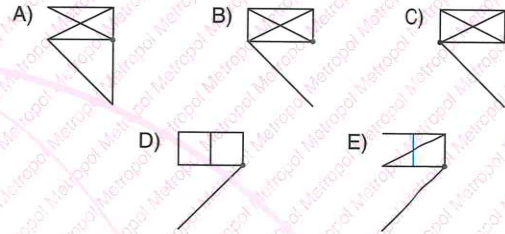
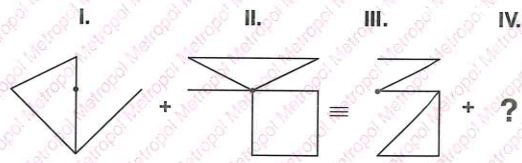
Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

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

1. I. II. III. IV.

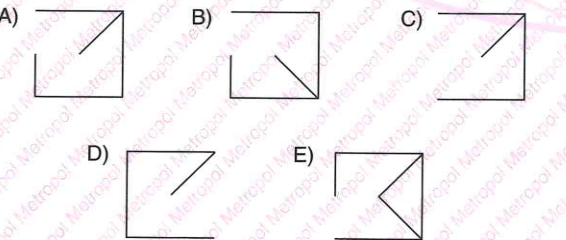
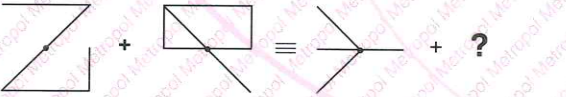


3.

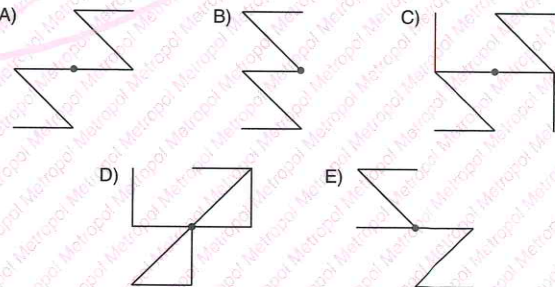
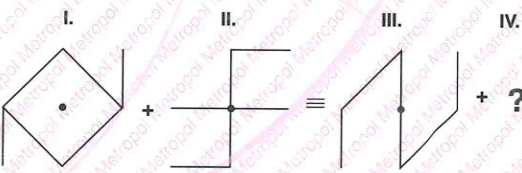


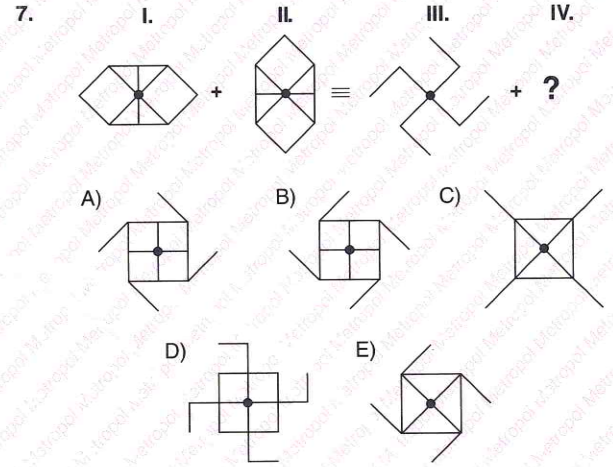
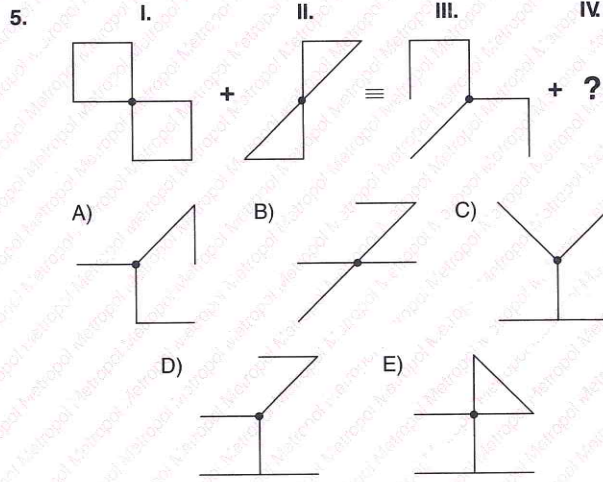
METROPOL YAYINLARI • METROPOL PUBLICATIONS

2. I. II. III. IV.

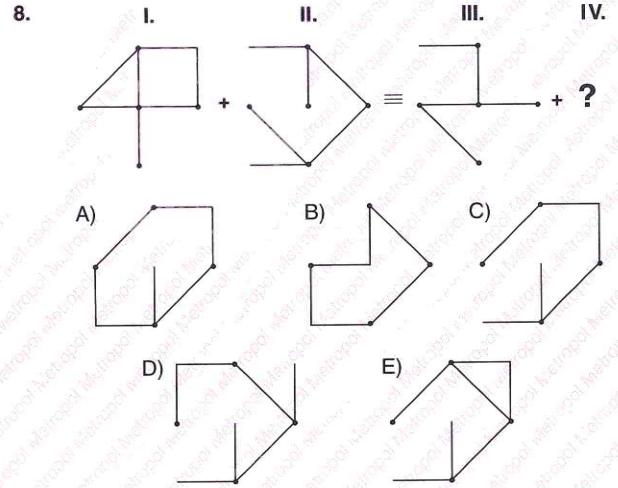
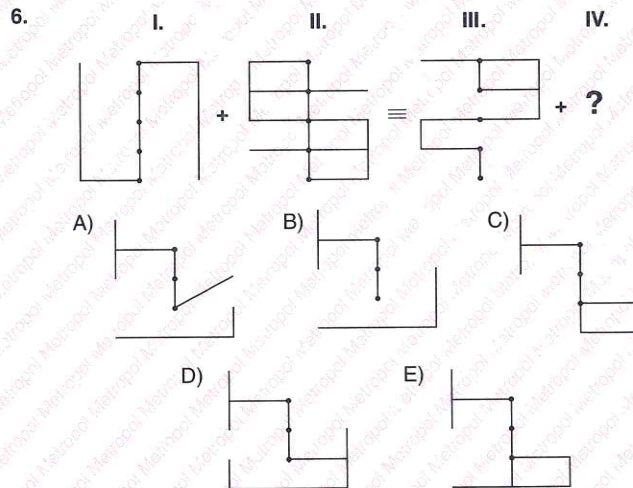


4.





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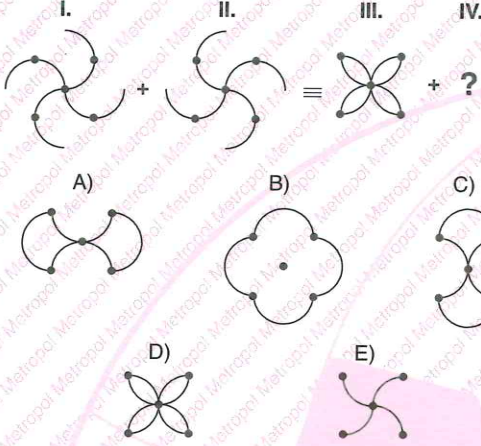


YANITLAR / ANSWERS

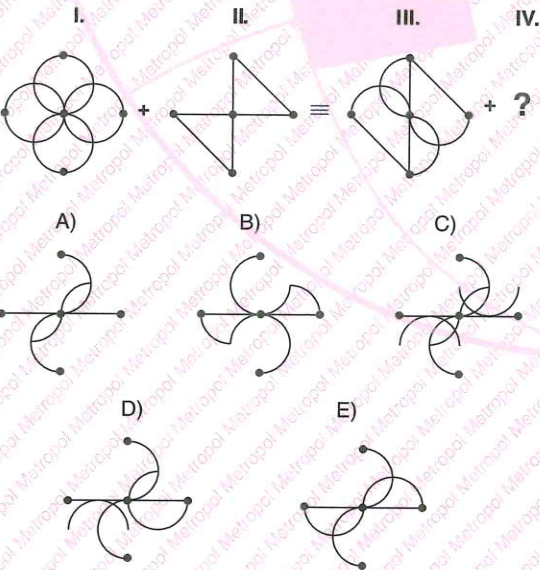
1	C	3	A	5	D	7	B
2	E	4	A	6	D	8	E

Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.
In the following questions, which figure should replace question mark.

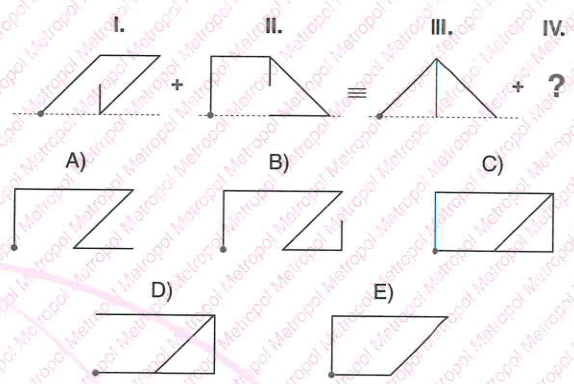
1.



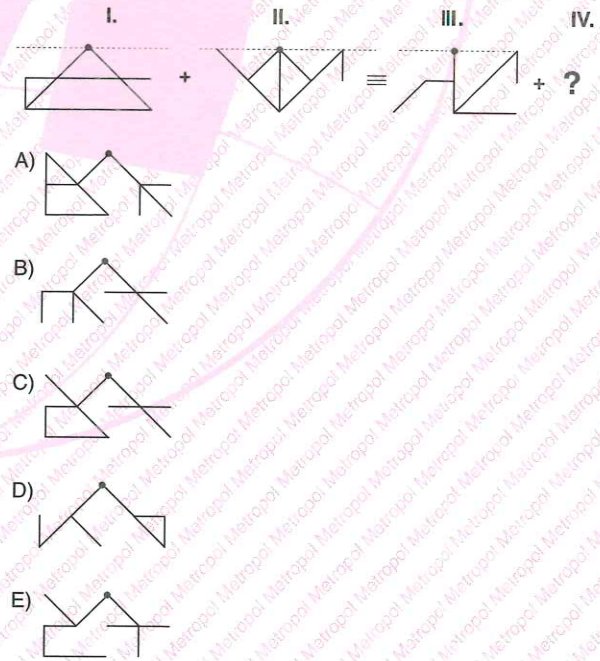
2.

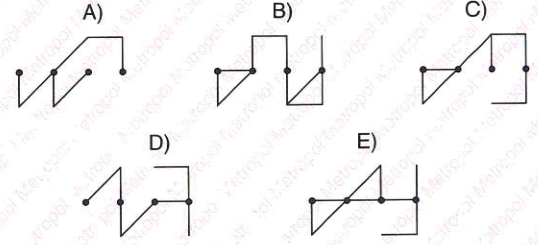
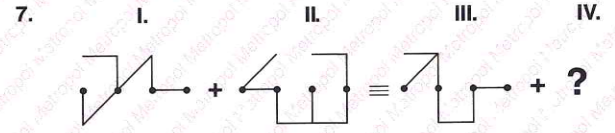
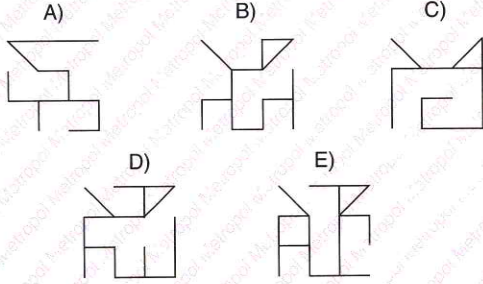
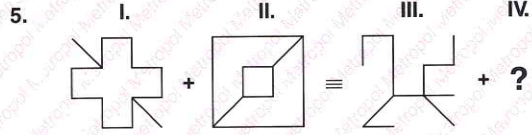


3.

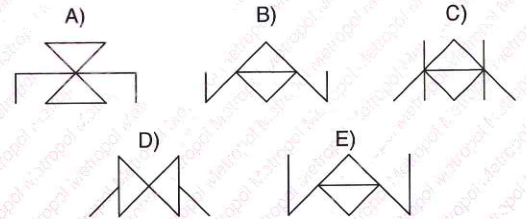
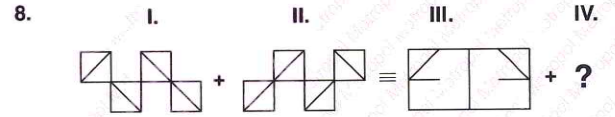
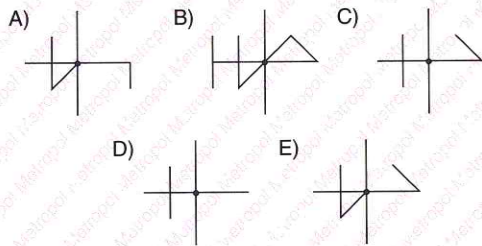
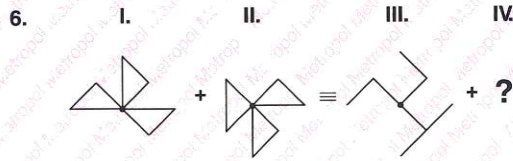


4.





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YANITLAR / ANSWERS

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

Aşağıdaki sorularda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

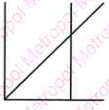
In the following questions, which figure should replace question mark.

1.

I.



II.



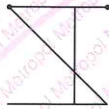
III.

?

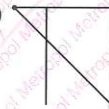
A)



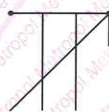
B)



C)



D)

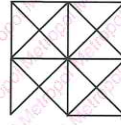


E)



3.

I.



II.



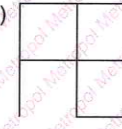
III.

?

A)



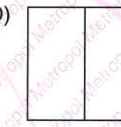
B)



C)



D)



E)



2.

I.



II.



III.

?

A)



B)



C)



D)



E)



4.

I.



II.



III.

?

A)



B)



C)



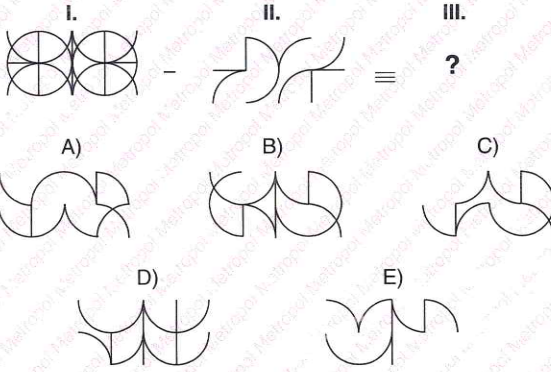
D)



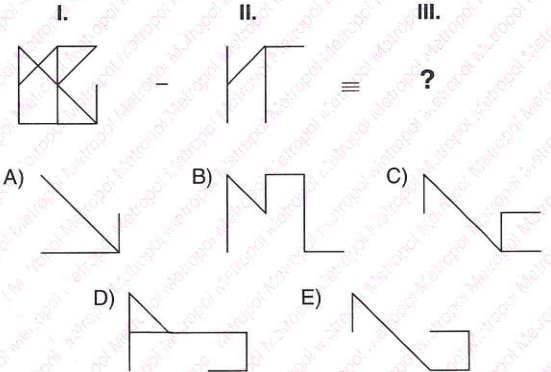
E)



5.

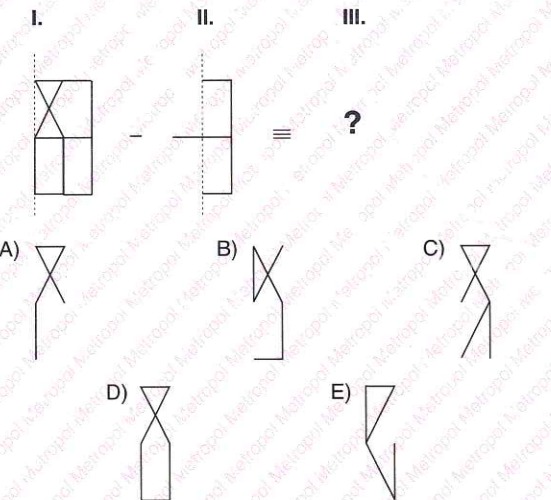


7.

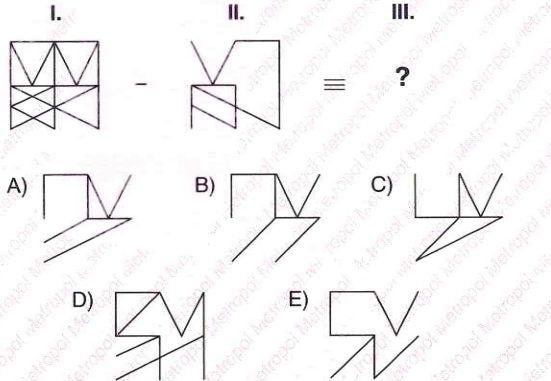


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6.



8.



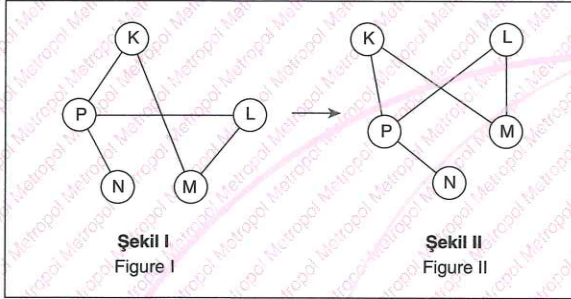
YANITLAR / ANSWERS

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

Aşağıdaki soruları örnekte verilen kurala göre cevaplayınız.

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

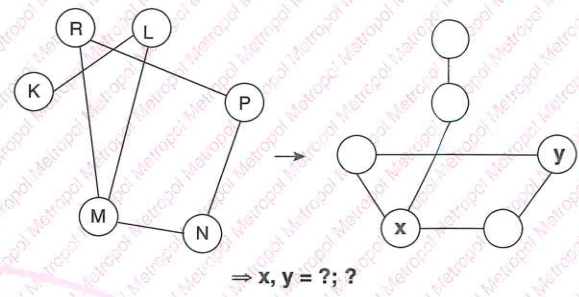
ÖRNEK / EXAMPLE:



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.

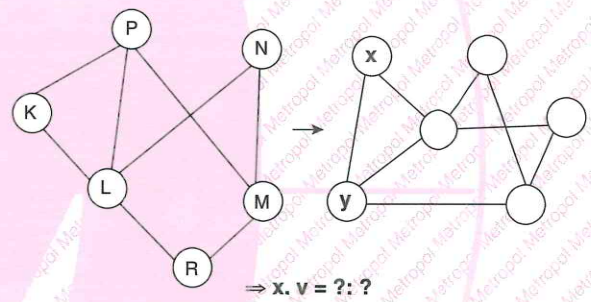
The letters K, L, M, N and P are linked as in figure I. figure II. has been constructed so as not to change the number of links and the letters that are linked to each other in figure I.

2.



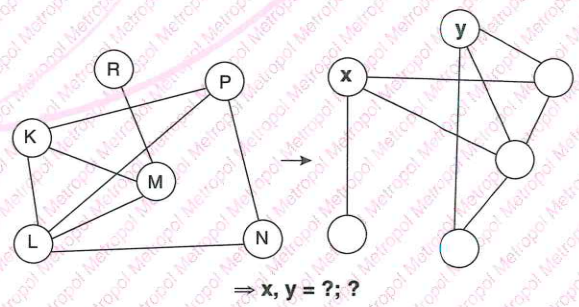
- A) M; N B) M; R C) M; P D) M; L E) P; M

3.



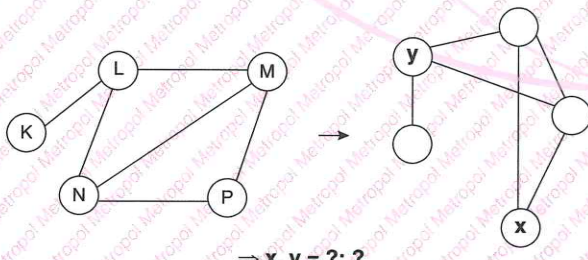
- A) P; R B) M; R C) M; K D) P; N E) K; P

4.



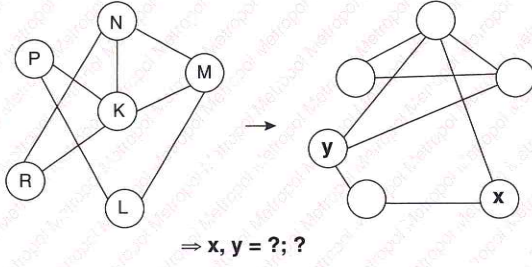
- A) P; M B) K; M C) P; K D) M; K E) M; P

1.



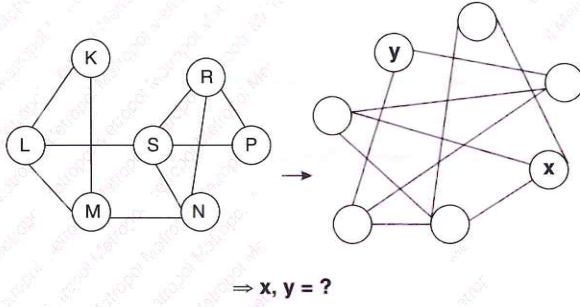
- A) L; P B) P; L C) P; N D) N; P E) M; P

5.



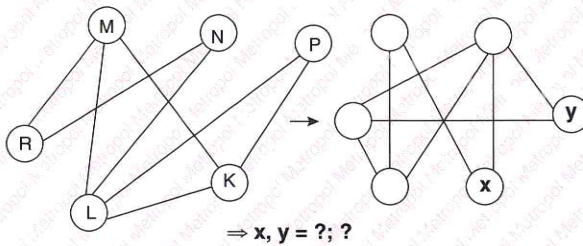
- A) P; N B) P; R C) R; M D) P; M E) M; R

6.



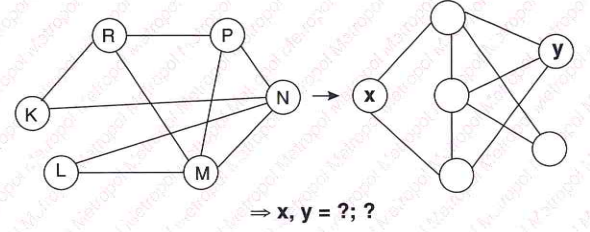
- A) K; R B) R; K C) N; K D) L; K E) M; K

7.



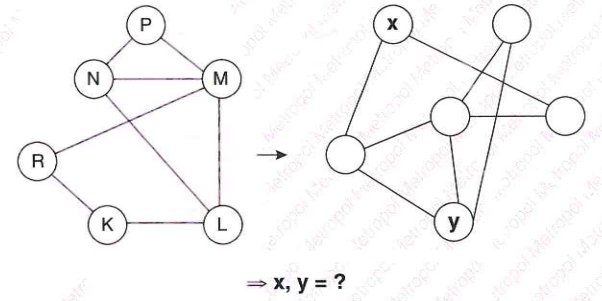
- A) P; N B) N; P C) P; K D) K; P E) N; R

8.



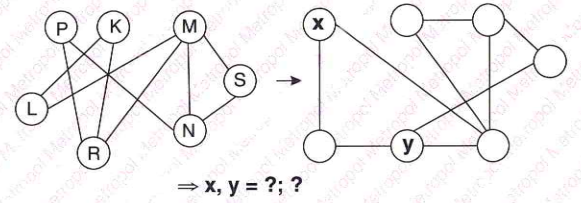
- A) P; K B) L; K C) K; P D) K; R E) R; K

9.



- A) N; K B) L; N C) K; N D) M; R E) N; L

10.



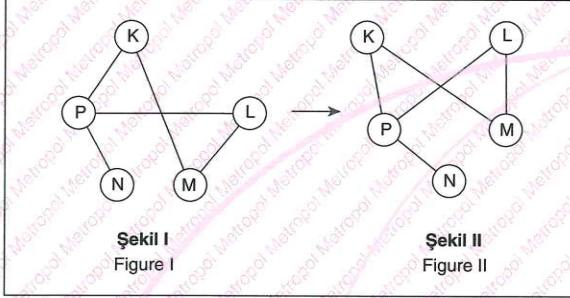
- A) R; L B) L; N C) N; L D) L; R E) L; M

YANITLAR / ANSWERS

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

Aşağıdaki soruları örnekte verilen kurala göre cevaplayınız.
Answer the following questions according to the given rule in example.

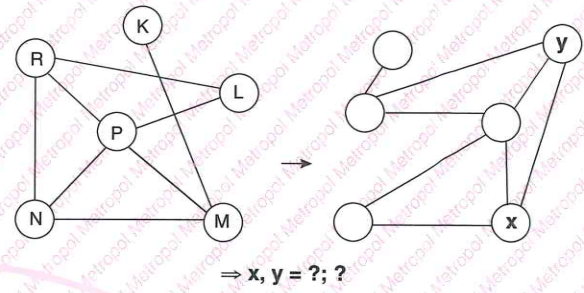
ÖRNEK / EXAMPLE:



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

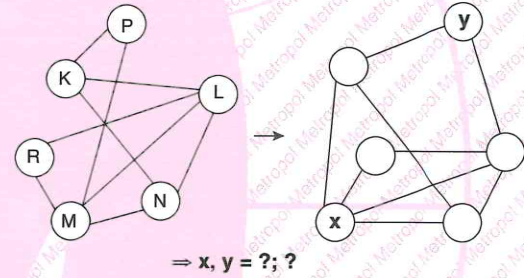
The letters K, L, M, N and P are linked as in figure I. figure II. has been constructed so as not to change the number of links and the letters that are linked to each other in figure I.

2.



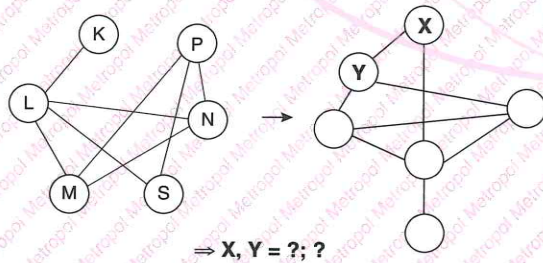
- A) N; R B) M; N C) R; N D) N; M E) R; M

3.



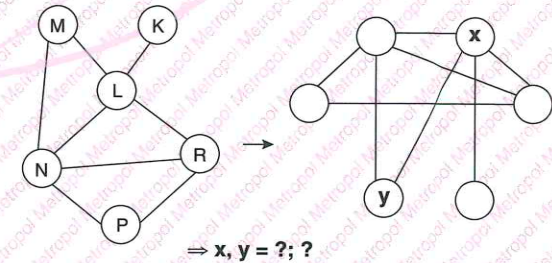
- A) L; N B) L; M C) P; L D) P; M E) L; P

1.



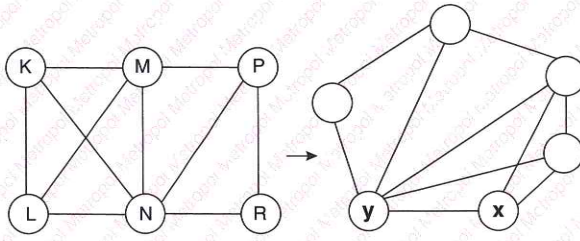
- A) S; P B) S; N C) S; M D) P; S E) N; S

4.



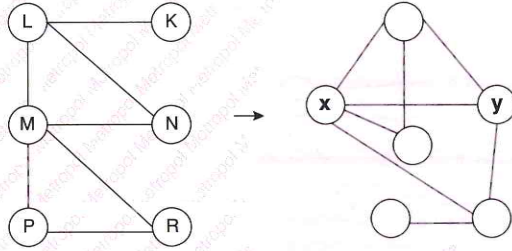
- A) L; M B) L; P C) N; L D) N; P E) M; L

5.



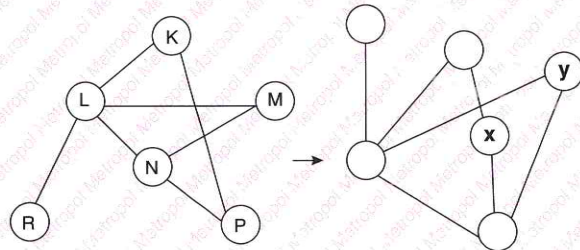
- A) M; N B) N; M C) M; P D) K; N E) K; P

6.

 $\Rightarrow x, y = ?$

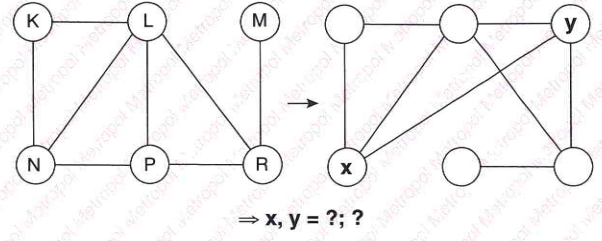
- A) N; M B) N; P C) P; N D) M; N E) M; P

7.

 $\Rightarrow x, y = ?; ?$

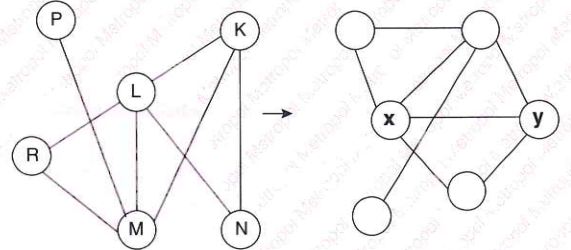
- A) M; P B) P; M C) P; K D) K; P E) K; M

8.

 $\Rightarrow x, y = ?; ?$

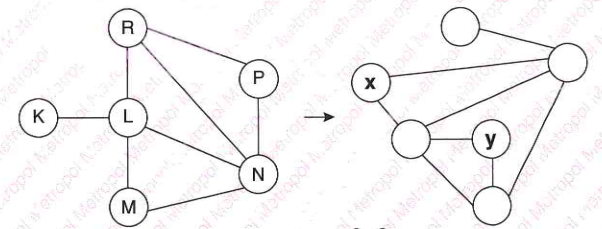
- A) N; P B) P; N C) K; P D) P; R E) R; P

9.

 $\Rightarrow x, y = ?$

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

10.

 $\Rightarrow x, y = ?; ?$

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



YANITLAR / ANSWERS

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

Aşağıdaki sorularda farklı olan şekli bulunuz.

Find the different figure in the following questions below.

1.

A)



B)



C)



D)



E)

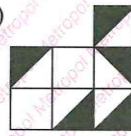


3.

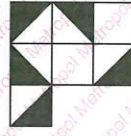
A)



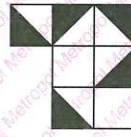
B)



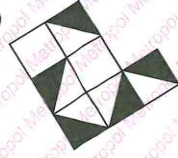
C)



D)



E)



2.

A)



B)



C)



D)

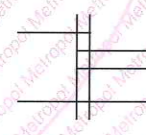


E)

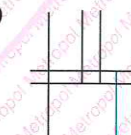


4.

A)



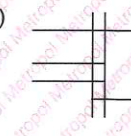
B)



C)

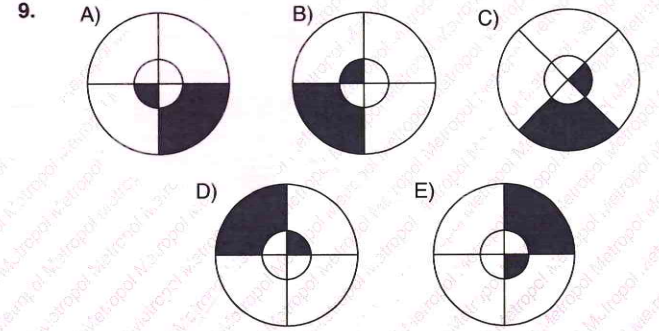
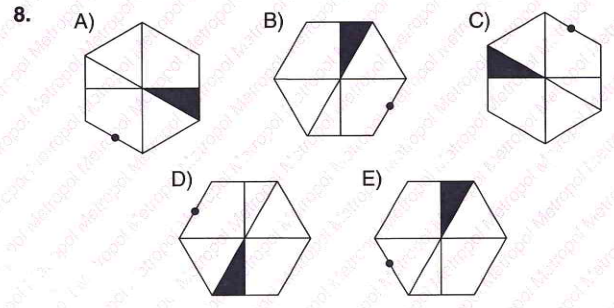
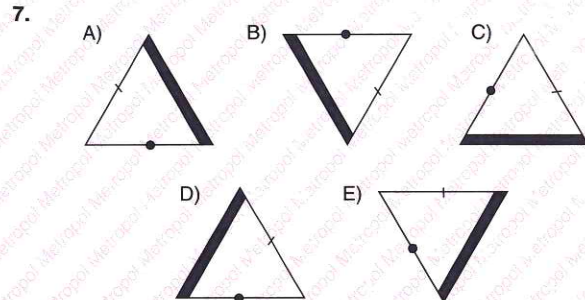
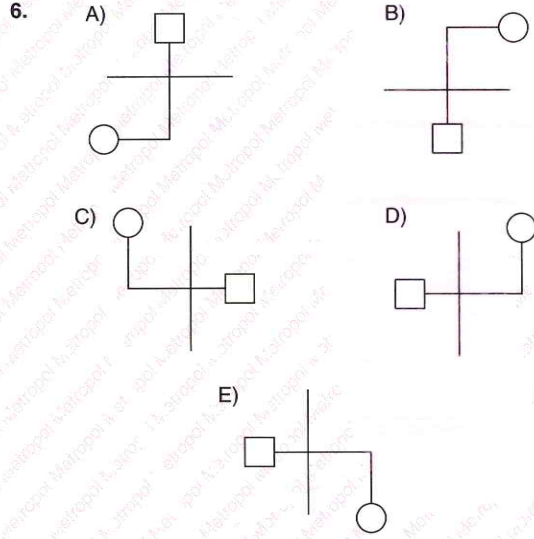
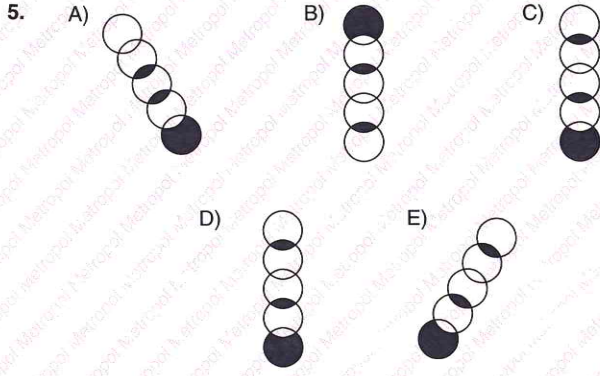


D)



E)



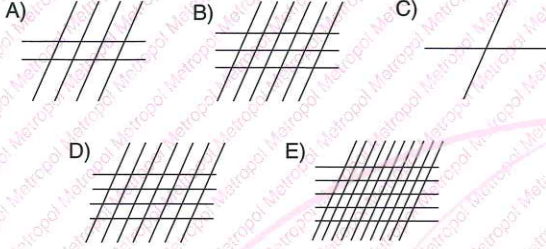


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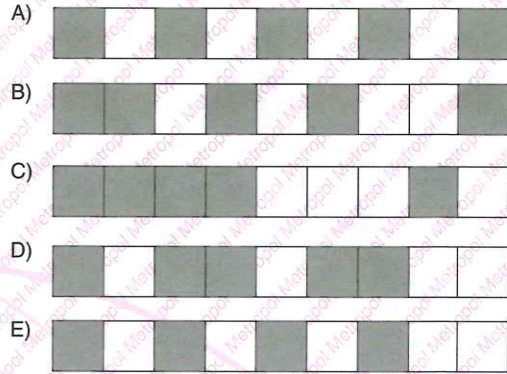
1	E	3	D	5	A	7	D	9	C	11	
2	B	4	B	6	D	8	E	10		12	

Aşağıdaki sorularda farklı olan şekli bulunuz.
Find the different figure in the following questions below.

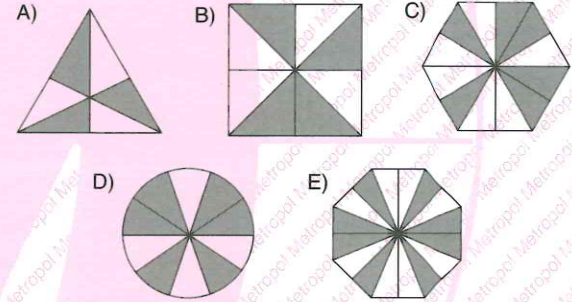
1.



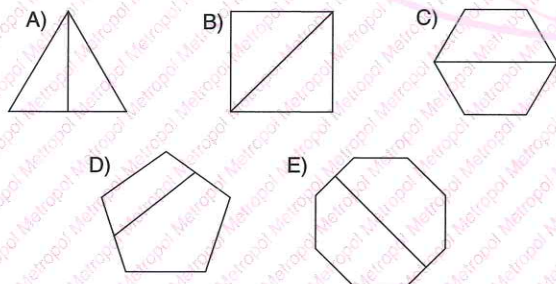
3.



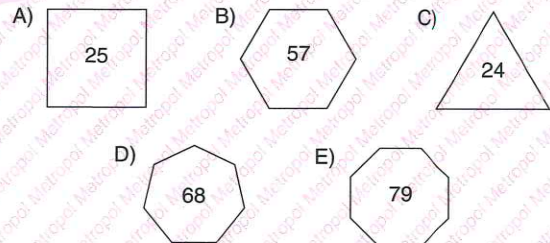
4.



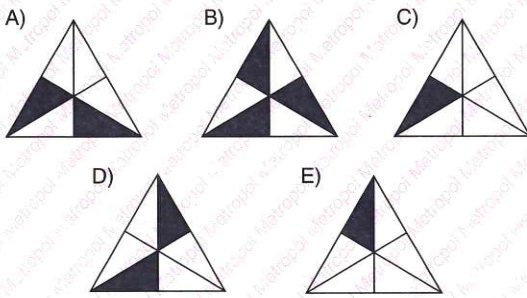
2.



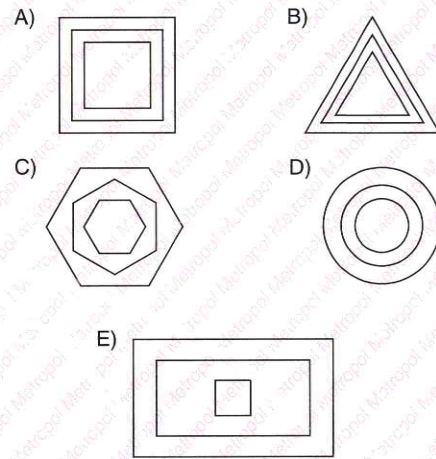
5.



6.

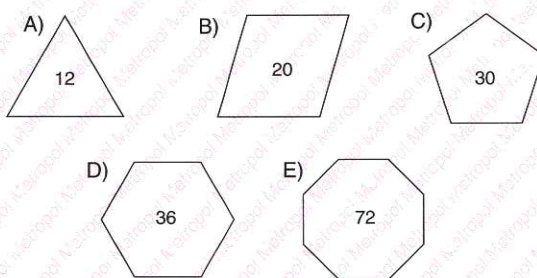


8.

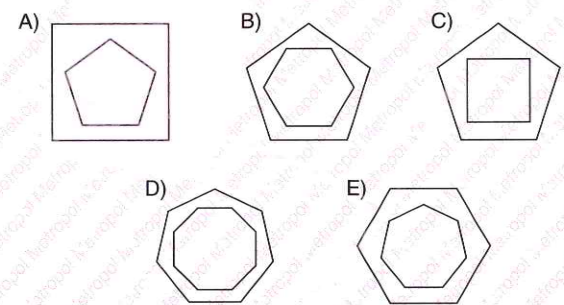


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7.



9.

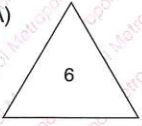


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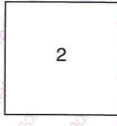
1	C	3	E	5	A	7	D	9	C	11
2	A	4	D	6	B	8	E	10	12	

1.

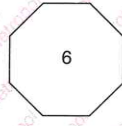
A)



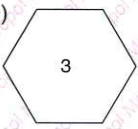
B)



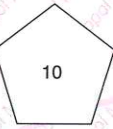
C)



D)

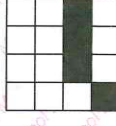


E)

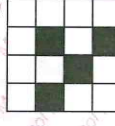


3.

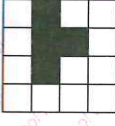
A)



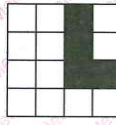
B)



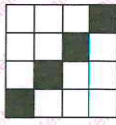
C)



D)

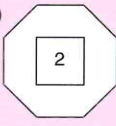


E)

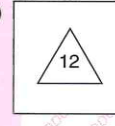


4.

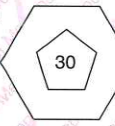
A)



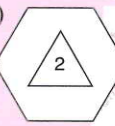
B)



C)



D)

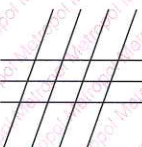


E)



2.

A)



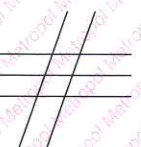
B)



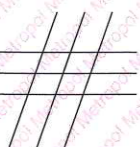
C)



D)

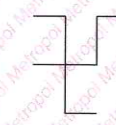


E)

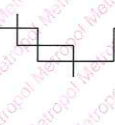


5.

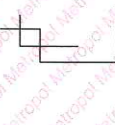
A)



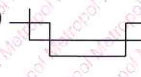
B)



C)

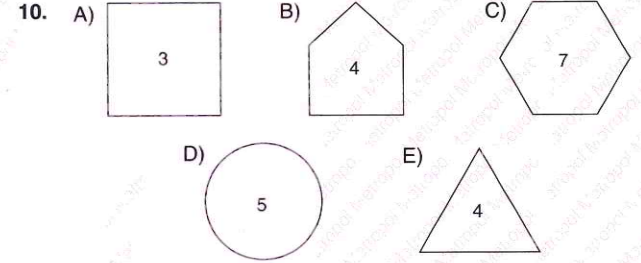
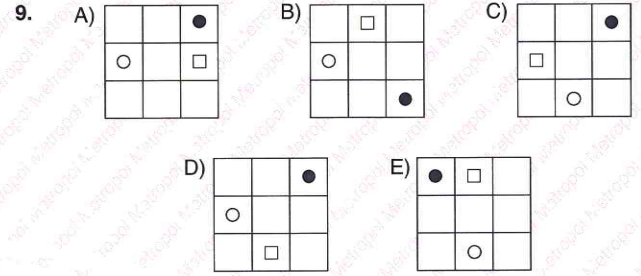
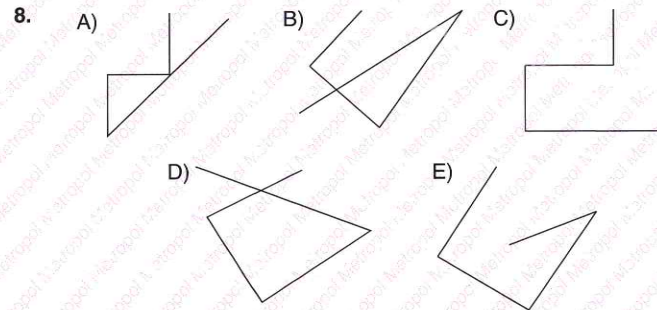
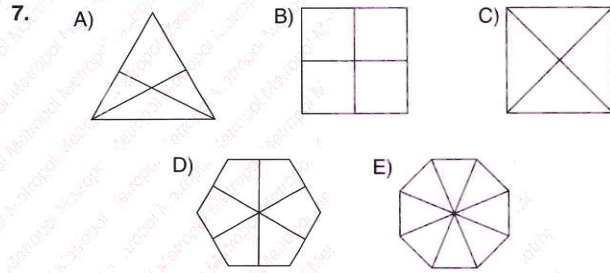
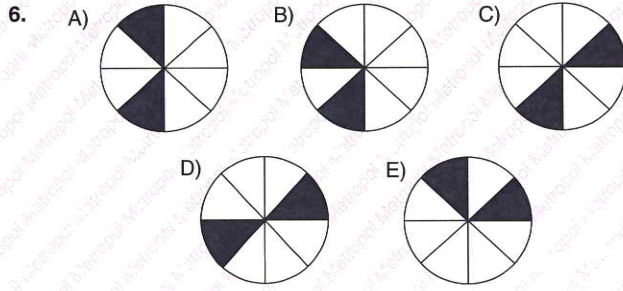


D)



E)





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

1.

					Sonuç (Result)
					?

- A) B) C) D) E)

3.

					Sonuç (Result) L
Sonuç (Result) K					

⇒ K = ? ; L = ?

- A) ; B) ; C) ;
D) ; E) ;

4.

				Sonuç (Result)
				K
Sonuç (Result) 	L			

⇒ K = ? ; L = ?

- K L
A)
B)
C)
D)
E)

2.

						Sonuç (Result)
						?

- A) B) C) D) E)

5.

☆	△	□	●	▲	◇
△	●	◇	□	△	◇
□	◇	◇	▲	◇	△
●	□	▲	△	●	□
▲	△	◇	●	◇	△
◇	□	△	□	△	▲

$$\Rightarrow (\triangle \star \square) \star (\bullet \star \triangle) = ?$$

- A) △ B) □ C) ● D) ▲ E) ◇

7.

☆	K	M	L	N	R
K	R	K	N	L	M
M	K	L	R	N	L
L	N	R	K	L	M
N	L	N	L	M	K
R	M	L	M	K	N

$$K \star [(R \star X) \star (L \star N)] = R \Rightarrow X = ?$$

- A) K B) M C) L D) N E) R

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6.

●	⊕	⊗	⊗	☆	×
⊕	×	⊕	×	⊗	⊕
⊗	⊕	☆	⊗	⊕	⊗
⊗	×	⊗	⊕	×	☆
☆	⊗	⊕	×	×	⊗
×	⊕	⊗	☆	⊗	⊗

$$\Rightarrow [(\otimes \otimes \star) \otimes (\oplus \otimes \times)] \otimes \otimes = ?$$

- A) ⊕ B) ⊗ C) ⊗ D) ☆ E) ×

8.

■	X	Y	V	Z	T
X	Z	T	X	V	Y
Y	T	X	T	X	V
V	X	T	Y	Z	X
Z	V	X	Z	T	X
T	Y	V	X	X	X

$$((K \blacksquare X) \blacksquare T) \blacksquare V = Y \Rightarrow K = ?$$

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



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

1.

			
I	K	2	4
II	5	L	4
III	8	6	M

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

- A) 3; 8; 4
 B) 8; 4; 3
 C) 3; 4; 8
 D) 8; 3; 4
 E) 4; 3; 8

3.

I	2	4	L
II	2	K	2
III	M	3	2

 $\Rightarrow K + L + M = ?$

- A) 7
 B) 8
 C) 9
 D) 10
 E) 11

2.

	I	II	III
	-	K	2
	L	3	-
	4	-	M

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

- A) 4; 5; 2
 B) 4; 2; 5
 C) 2; 5; 4
 D) 5; 4; 2
 E) 2; 4; 5

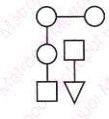
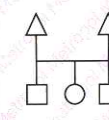
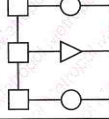
4.

	I	II	III
	8	K	1
	5	5	L
	M	6	2
	6	5	2

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

	K	L	M
A) 6	1	7	
B) 5	2	7	
C) 5	1	9	
D) 6	2	8	
E) 4	3	8	

5.

	I	II	III
		2	3
		2	L
		M	4

$$\Rightarrow K + L + M = ?$$

- A) 4
B) 5
C) 6
D) 7
E) 8

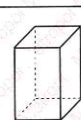
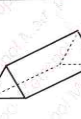
6.

	I	II	III
		2	K
		3	2
		M	2

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

- A) 1; 3; 4
B) 1; 4; 2
C) 3; 1; 4
D) 3; 4; 1
E) 4; 3; 1

7.

	I	II	III
		K	5
		2	L
		0	3

$$\Rightarrow K + L + M = ?$$

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

8.

	I	II	III
		5	6
		2	L
		M	2

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

- A) 4; 2; 4
B) 2; 4; 2
C) 4; 2; 2
D) 4; 4; 2
E) 2; 4; 4

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 YANITLAR / ANSWERS

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

1.

							Sonuç (Result)
							?

- A) B) C)
D) E)

3.

				Sonuç (Result)
	K			

K = ? ; L = ?

- A) B) C)
D) E)

2.

K	N	N	T	N	Sonuç (Result)
L	K	L	K	T	LT
M	R	K	L	L	?
N	T	M	M	K	NK

- A) ML B) MK C) RK
D) RL E) KM

4.

		?			Sonuç (Result)

- A) B) C)
D) E)

5.

							Sonuç (Result)
K	L	K	M	L	K	M	K, M, M
L	L	N	N	M	M	L	L, N, L
K	M	L	M	N	M	L	K, M, L
L	N	L	K	K	L	M	?

A) L, K, M

B) N, M, L

C) L, N, M

D) K, M, N

E) K, L, L

6.

	I	II	III
	2	3	K
	3	L	3
	M	2	6

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

A) 4; 3; 1

B) 1; 3; 4

C) 1; 4; 3

D) 3; 3; 1

E) 3; 4; 1

7.

I	K	12	6
II	6	4	L
III	2	M	3

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

A) 8; 3; 4

B) 8; 4; 3

C) 6; 4; 3

D) 6; 3; 4

E) 8; 6; 4

8.

I	4	K	5
II	1	1	L
III	M	2	1

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

A) 1; 2; 3

B) 3; 1; 2

C) 2; 1; 3

D) 2; 3; 1

E) 3; 2; 1

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YANITLAR / ANSWERS

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

1.

		▲■	●●	●▲
■▲	—	●●	●▲	●■
●●	▲■	?	▲●	
●▲	■●	●▲	●●	

- A) ●●● B) ●● C) ●●
D) ●● E) ●●

3.

△△△	△△	△△	○●△
△△△	△△	△△	L
△△△	△	■	○
○△■	K	△■	○

⇒ K = ?; L = ?

- K L
A) ■△ △
B) △ △
C) △ △
D) ■● ●
E) △ △

2.

	□△●	●▲	■□△
■□	□	—	□■
●△	△●	?	△
●▲	●	●▲	—

- A) △▲ B) △● C) ▲
D) ● E) ●▲

4.

	KLN	MKN	NLK	LMN
KLM	MK	MM	MN	Y
MNK	KK	KM	KN	KL
LKN	X	NM	NN	NL

⇒ X = ?; Y = ?

- A) LN; MK
B) NM; ML
C) KK; NL
D) KL; NM
E) NK; ML

5.

	△□	●△
△□●	K	△□△
△△△	△△□	L
●△□	●△△	□
△△●	M	△△△

⇒ K = ? ; L = ? ; M = ?

	K	L	M
A)	●△	△●△	△□
B)	●	△△●	△●□
C)	●	△△●	●△
D)	□	△△△	□△△
E)	□	△△●	●△△

6.

	△□	△△	□□
△	△△	△△	△△
△	△△	?	△△
□	△△	△△	△△

- A) □△□□ B) △△△
C) △△△ D) △△△
E) △△△

7.

	△□	●△	△△
△□	●	●△	△△
●△	K	□	△△
□△	△●	●△	L

⇒ K = ? ; L = ?

- A) △□ ; △△ C) ●□ ; △△
B) □△ ; △□ D) ●△ ; △△
E) △□ ; △△

8.

	△●	△△	△△	△△
△△	K	●△	△△	△
△△	△△	△△	—	L

⇒ K = ? ; L = ?

- A) △● ; △ B) ● ; △△
C) ● ; △△ D) ●□ ; △△
E) △● ; △△



YANITLAR / ANSWERS

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

1.

1	2	5	3	1
5	3	2	2	4
3	3	4	1	1
4	2	5	5	3
5	1	2	2	4

I.

K	L
K	4

II.

K	1
L	M

III.

	K
L	M

⇒ L = ?; K = ?; M = ?

A) 3; 2; 4

B) 3; 3; 4

C) 2; 3; 4

D) 4; 3; 2

E) 2; 2; 3

3.

B	A	L	M	T
T	T	A	M	T
L	A	T	M	M
L	T	M	T	A
B	A	L	A	L

I.

II.

X	☼	☼	☼
---	---	---	---

⇒ X = ?

A) M

B) A

C) L

D) T

E) K

2.

☼	☼	▲	☺	■
☼	■	☼	☼	▲
■	☺	☼	■	☼
☼	▲	☺	☼	▲
☼	☼	☺	☼	☼

I.

A	
B	A
C	A

II.

D	C	B
	E	D

⇒ B = ?; E = ?

A) ■; ■

B) ☼; ■

C) ■; ▲

D) ▲; ☼

E) ▲; ■

4.

☼	☼	☼	☼	☼
☼	☼	☼	☼	☼
☼	☼	☼	☼	☼
☼	☼	☼	☼	☼
☼	☼	☼	☼	☼

I.

K	L
	

II.

L	L
K	M

III.

M
K
L

⇒ M = ?; K = ?; L = ?

A) ☼; ☼; ☼

B) ☼; ☼; ☼

C) ☼; ☼; ☼

D) ☼; ☼; ☼

E) ☼; ☼; ☼

5.

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

I.	II.
♣	♠
♣	♠
C	C
	D

⇒ ♠ = ?; ♣ = ?

- A) A; D B) E; D C) C; B
D) C; D E) A; E

6.

K	N	R	L
K	L	M	R
R	M	L	M
R	N	K	L

I.	II.	III.
▲	L	●
▲	△	▲
■	■	●

▲ = ?; ■ = ?; ● = ?

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 |
| B) | N | M | K |
| C) | R | N | K |
| D) | K | M | L |
| E) | R | L | M |

7.

△	□	●	▲
▲	○	□	△
●	△	■	■
○	△	○	▲

I.	II.
■	□
●	K
L	K
	M
	L

⇒ K = ?; L = ?; M = ?

I ve II yukarıdaki tablonun farklı birer parçasıdır. Buna göre, K, L ve M nin yerine aşağıdakilerden hangisi gelmelidir?

I and II are three different parts of the table above.

Which of the following do K, L and M stand for?

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

8.

♣	✓	▲	●	♣
✓	▲	○	✓	○
●	○	●	♣	▲

I.	II.	III.
K	K	L
N	L	N
♣	M	♣
	M	M

⇒ K = ?; L = ?; M = ?; N = ?

I, II ve III yukarıdaki tablonun farklı birer parçasıdır. Buna göre, K, L, M ve N nin yerine aşağıdakilerden hangisi gelmelidir?

I, II and III are three different parts of the table above. Which of the following do K, L, M and N stand for?

- A) ✓; ○; ▲; ● B) ✓; ▲; ●; ○ C) ▲; ●; ✓; ○
D) ✓; ▲; ○; ● E) ▲; ○; ✓; ●



YANITLAR / ANSWERS

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

1.

I	K		
II		L	
III			M

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

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

2.

	I	II	III
			K
		L	
	M		

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

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

3.

	I	K	L	M
		L		
				M

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

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

4.

	I	II	III
		K	
		L	
	M		

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

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

5.

I			K
II			L
III			M

⇒ K = ? ; L = ? ; M = ?

A)			
B)			
C)			
D)			
E)			

6.

	I	II	III
			K
			L
			M

⇒ K = ? ; L = ? ; M = ?

A)			
B)			
C)			
D)			
E)			

7.

I			K
II			L
III			M

⇒ K = ? ; L = ? ; M = ?

A)			
B)			
C)			
D)			
E)			

8.

	I	II	III
			K
			L
			M

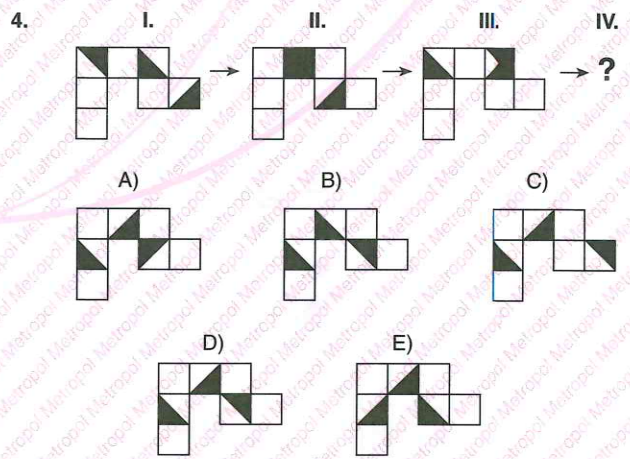
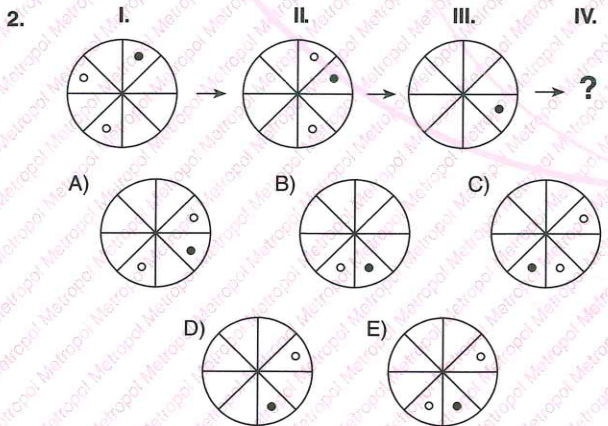
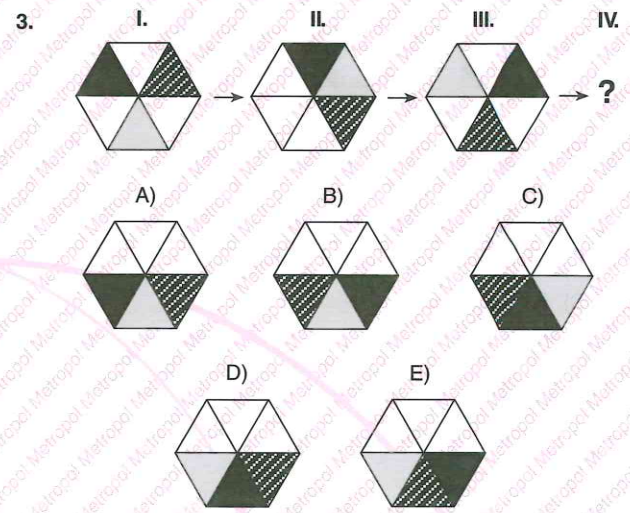
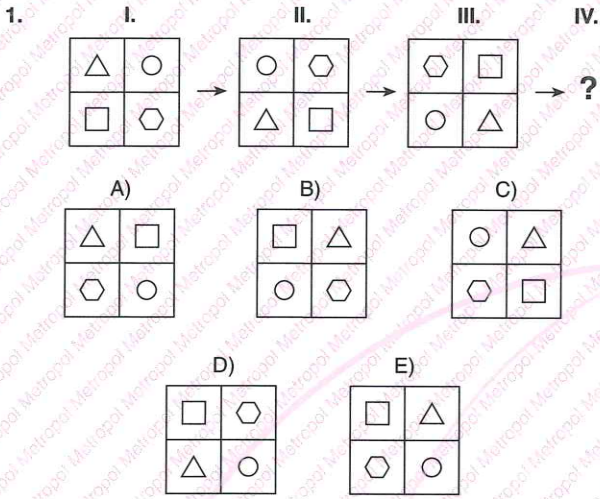
⇒ K = ? ; L = ? ; M = ?

A)			
B)			
C)			
D)			
E)			



YANITLAR / ANSWERS

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



5. I. II. III. IV.

- A) B) C) D) E)

7. I. II. III.

- IV. V. A) B) C) D) E)

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

- A) B) C) D) E)

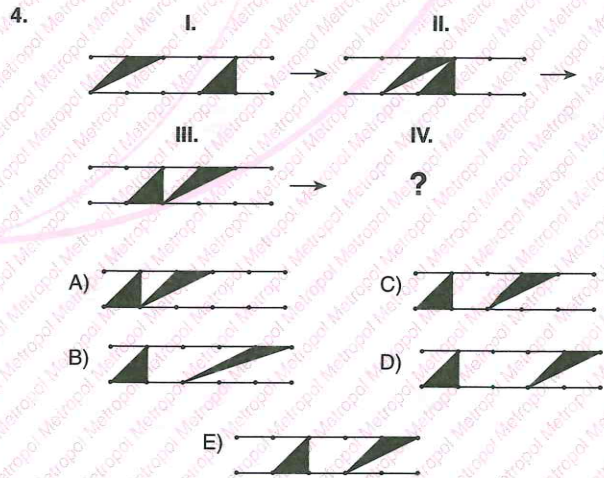
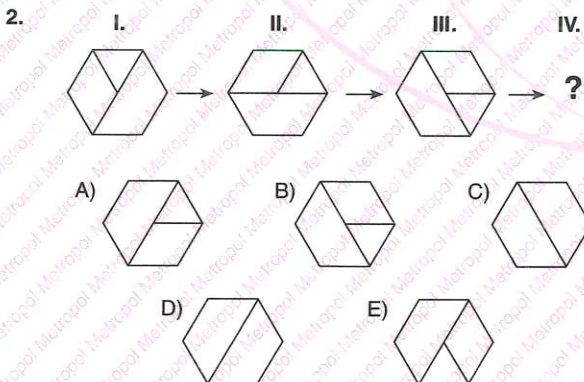
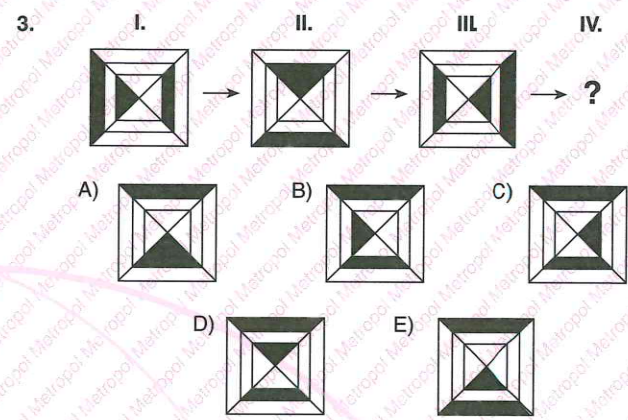
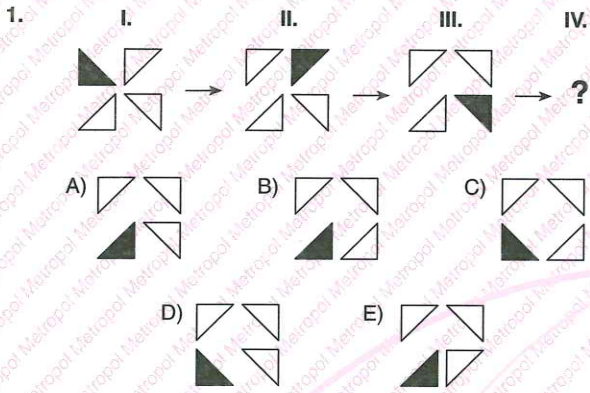
8. I. II. III. IV. V.

- A) B) C) D) E)

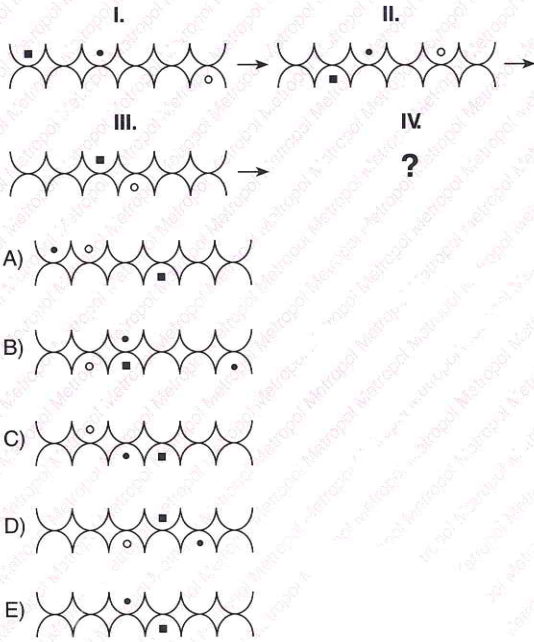


YANITLAR / ANSWERS

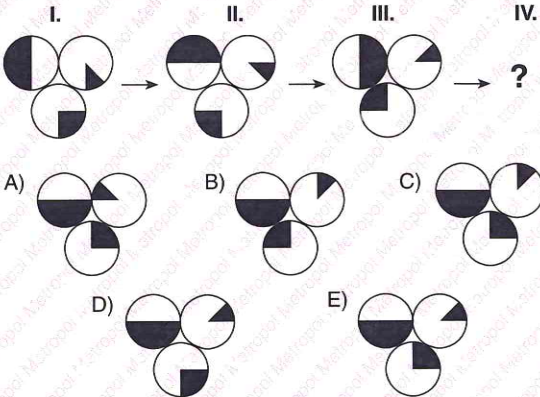
1	E	3	B	5	B	7	E
2	E	4	D	6	C	8	C



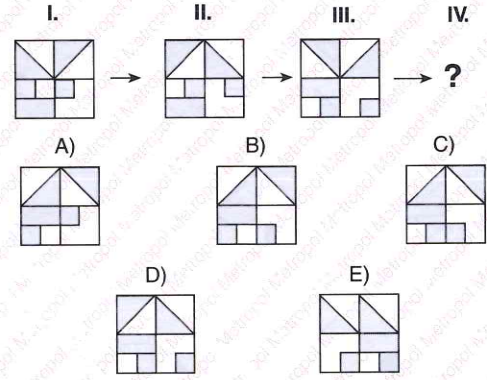
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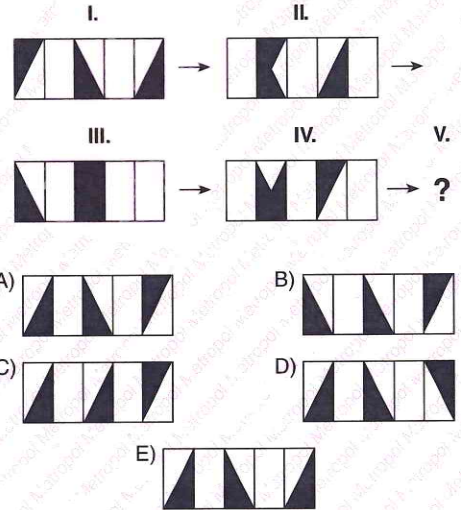
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7.

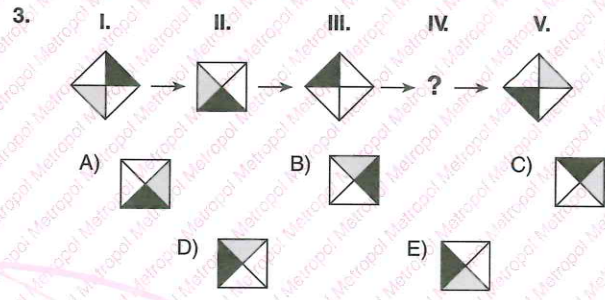
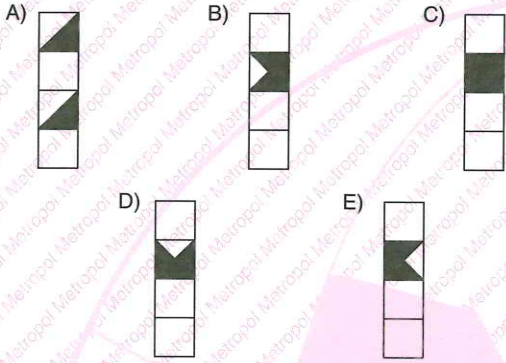
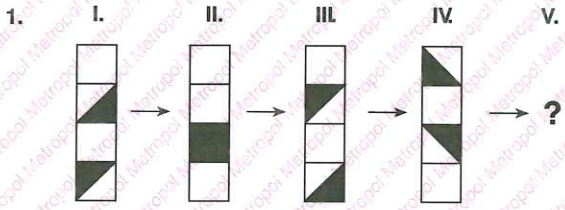


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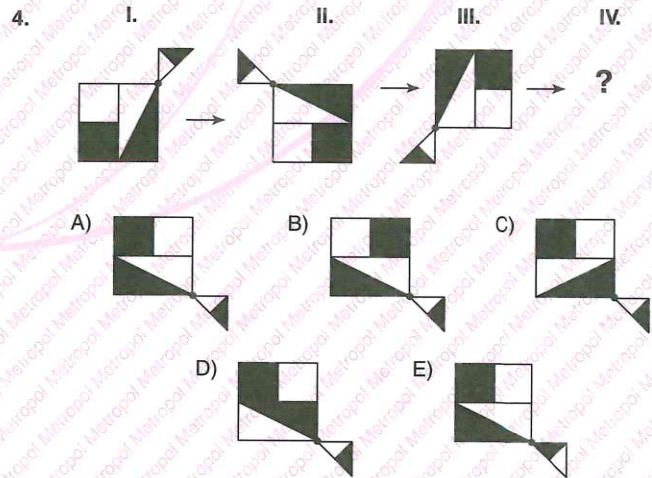
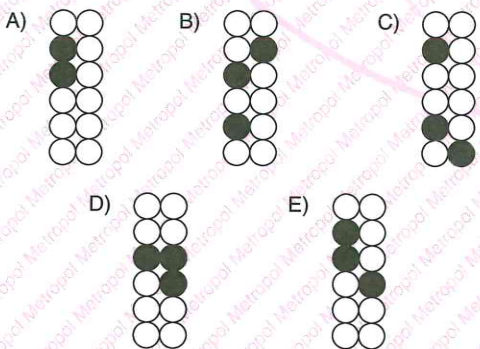
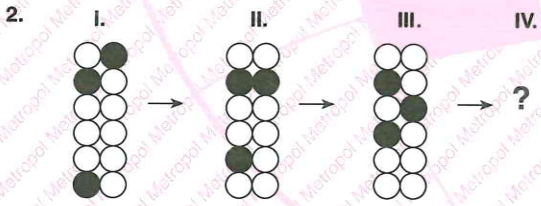


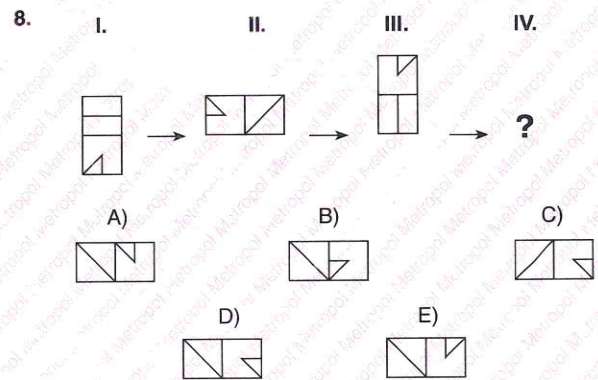
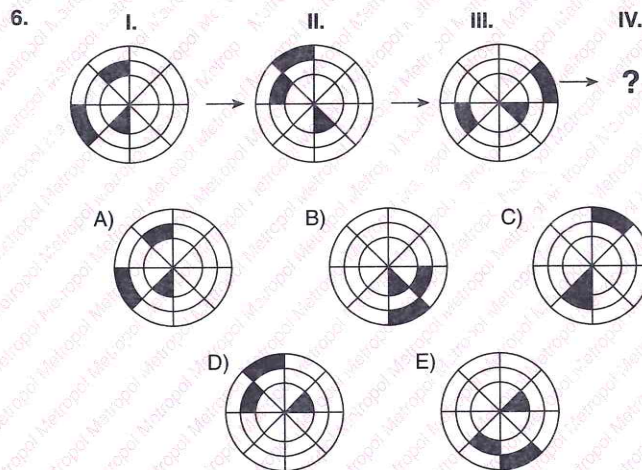
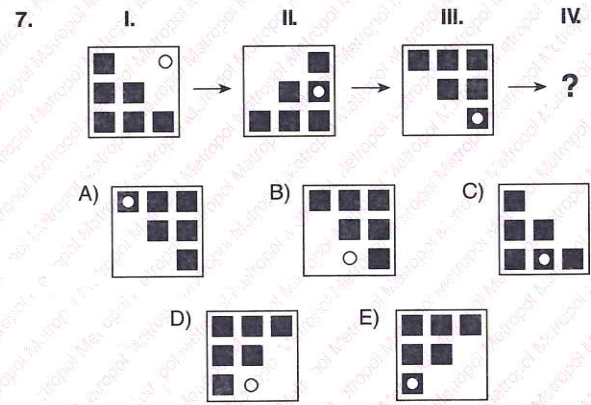
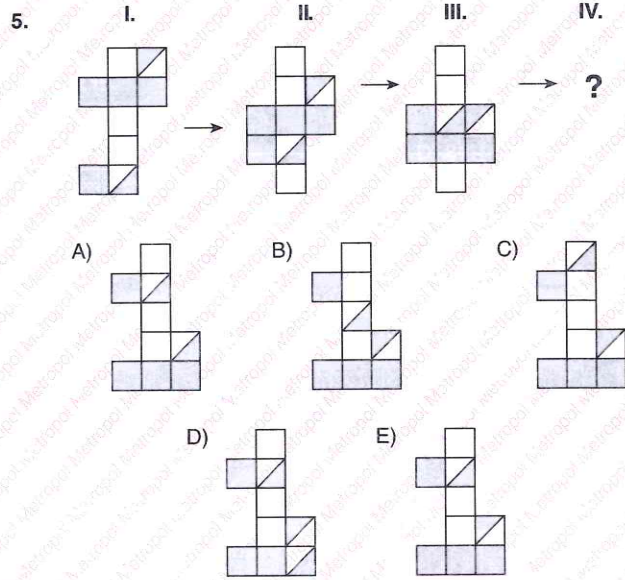
YANITLAR / ANSWERS

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



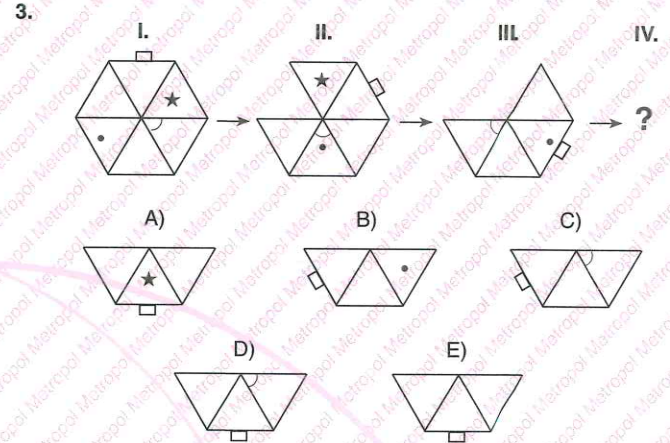
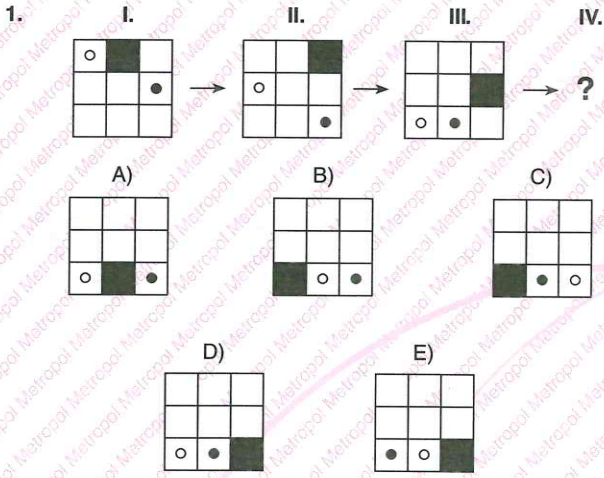
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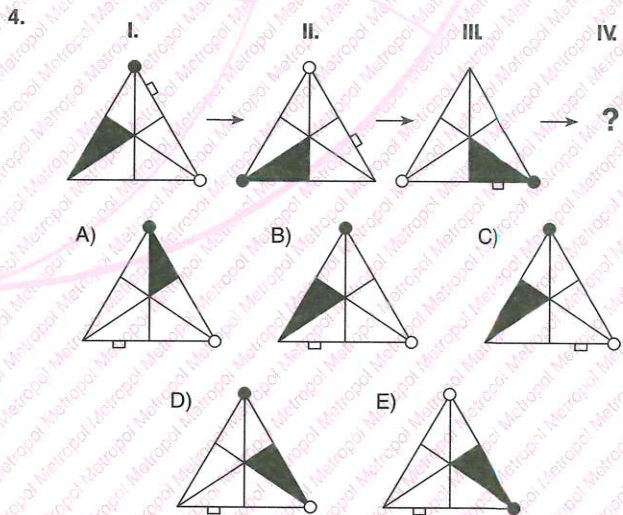
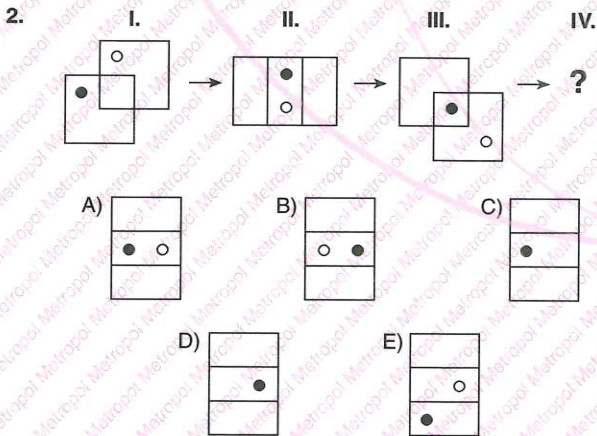


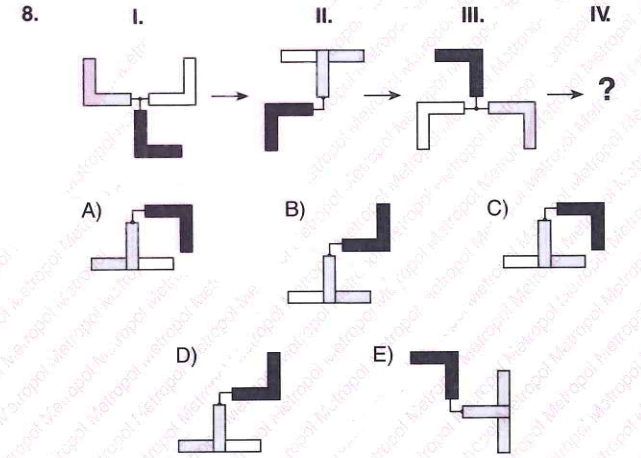
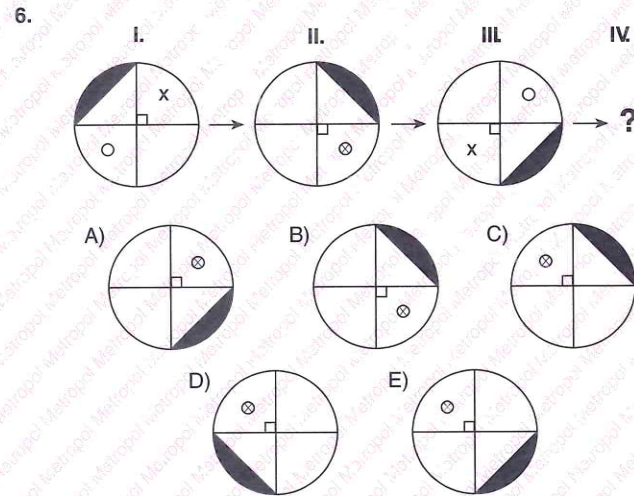
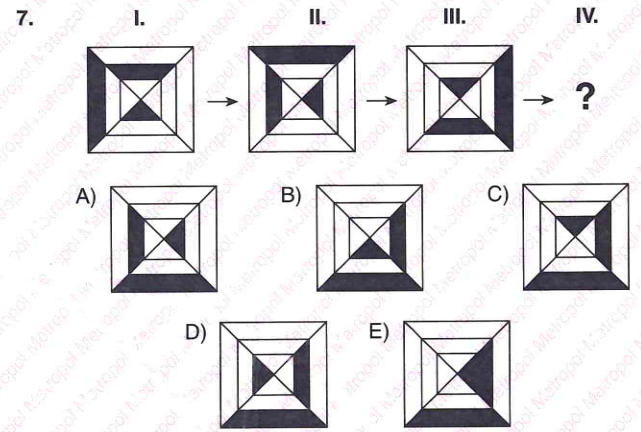
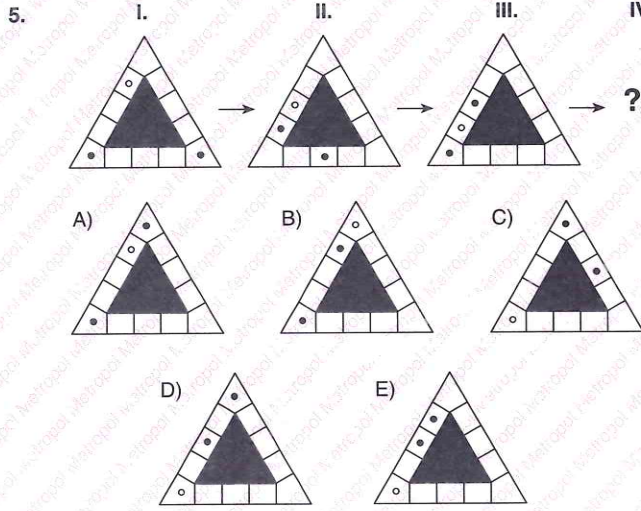
YANITLAR / ANSWERS

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



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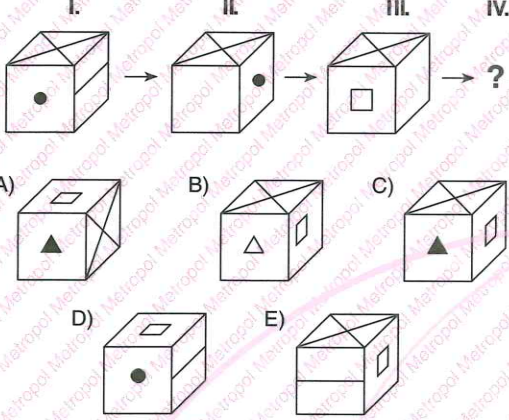




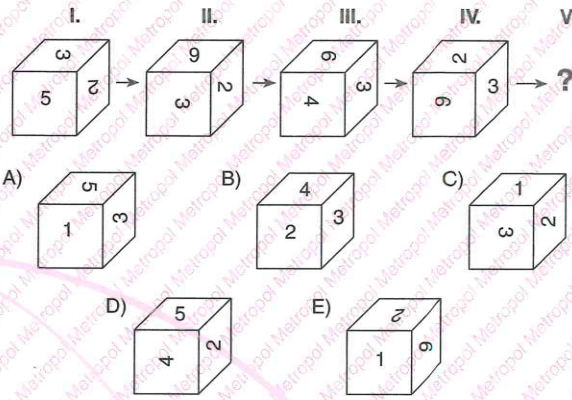
YANITLAR / ANSWERS

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

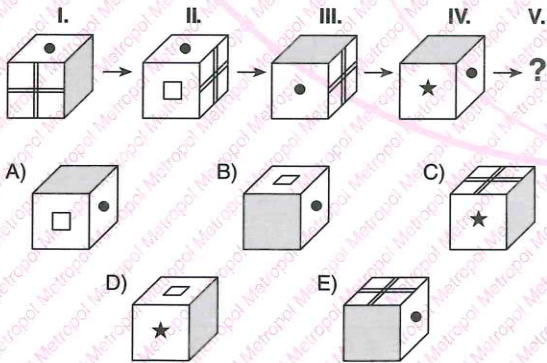
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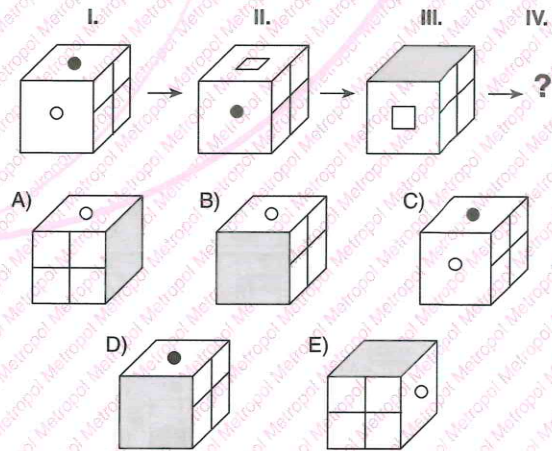
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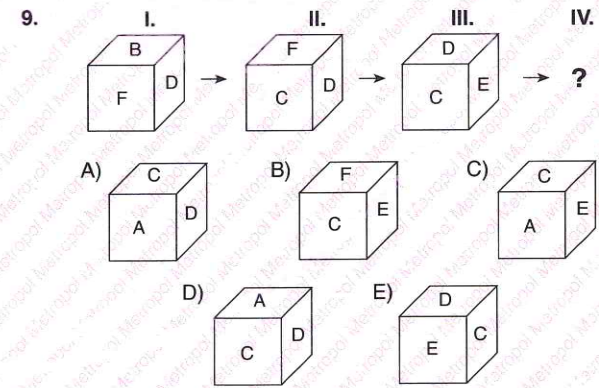
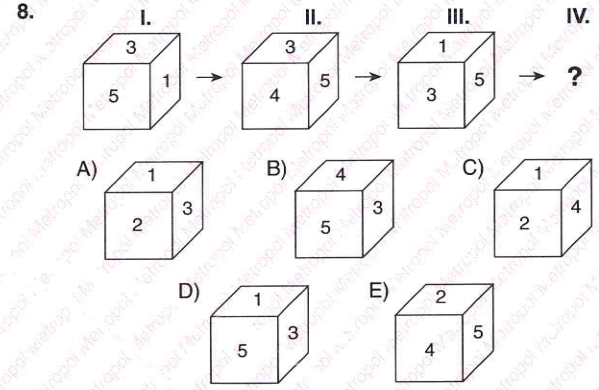
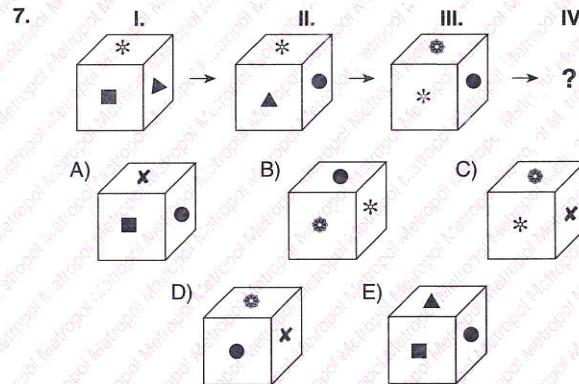
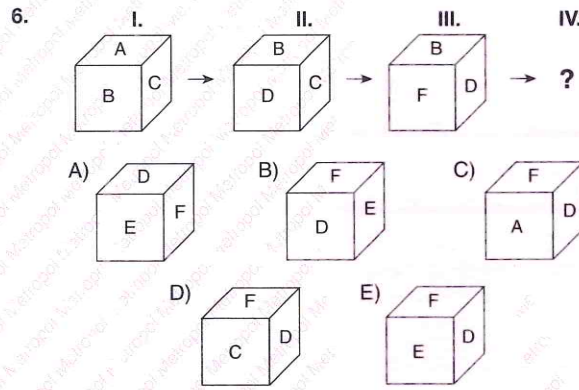
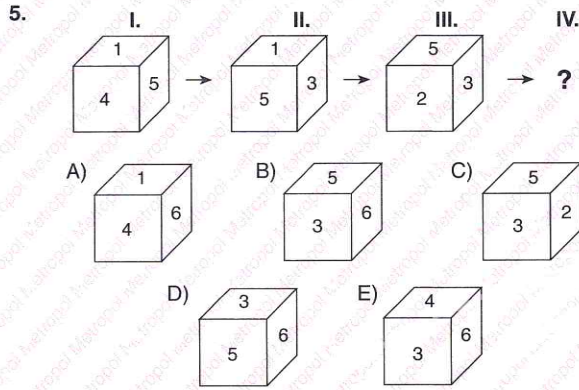


2.



4.

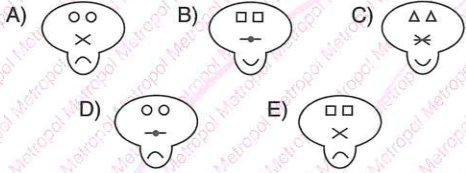
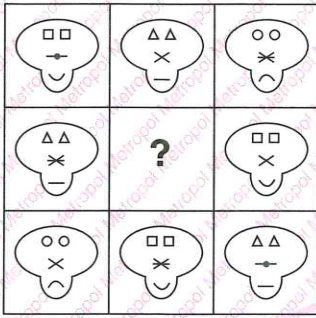




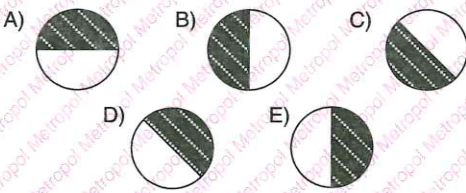
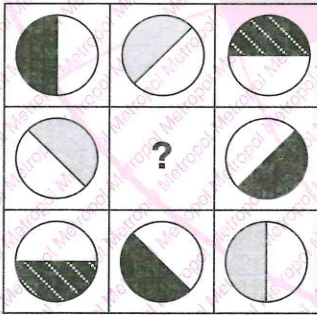
YANITLAR / ANSWERS

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

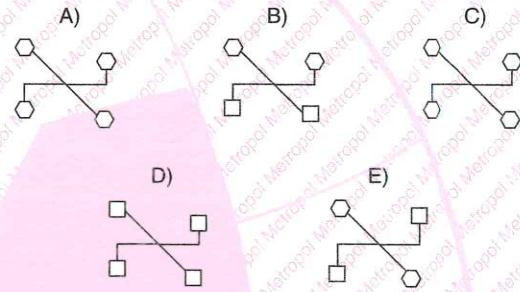
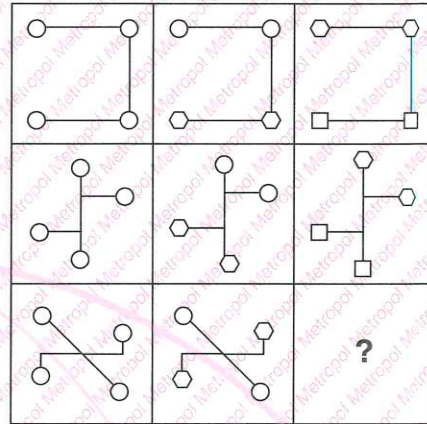
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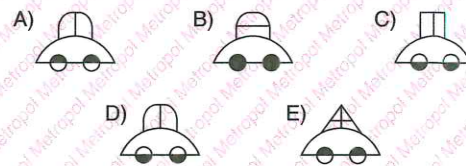
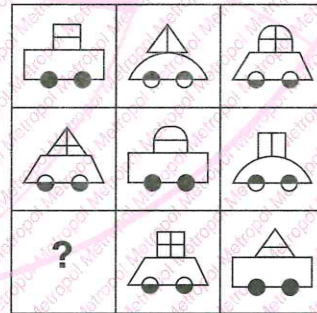
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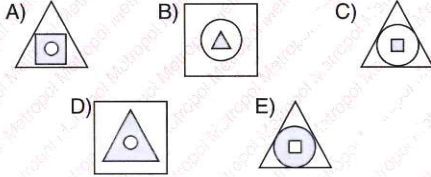
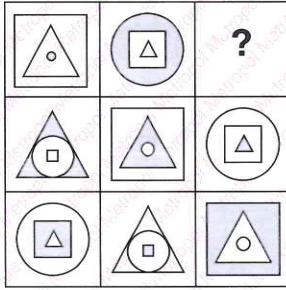
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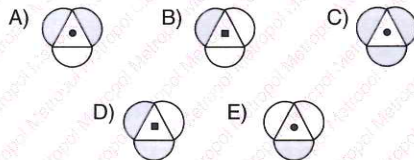
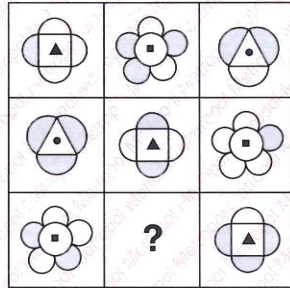
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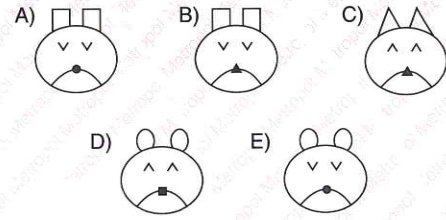
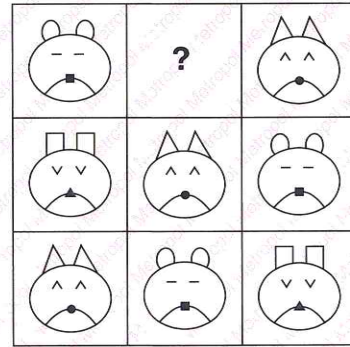
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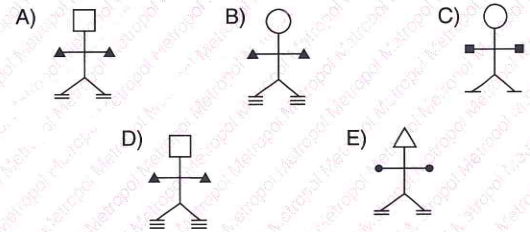
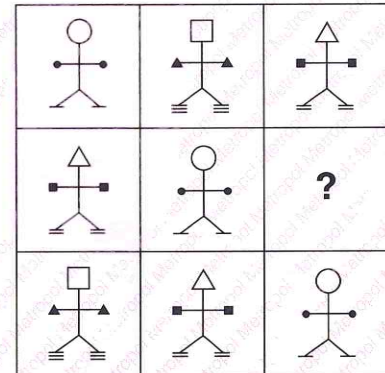
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7.



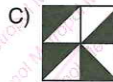
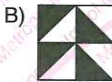
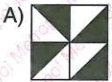
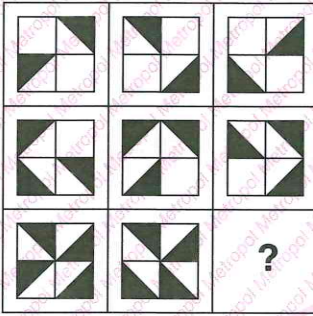
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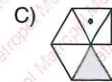
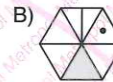
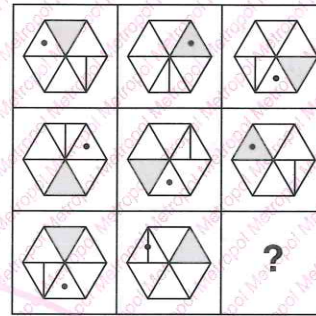
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1	D	3	E	5	E	7	B
2	E	4	A	6	E	8	D

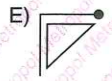
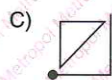
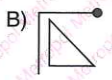
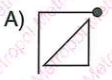
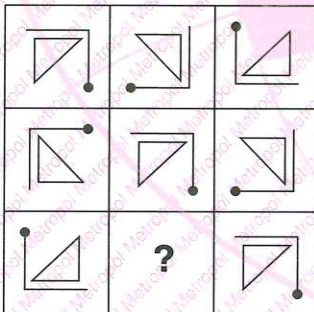
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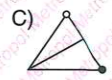
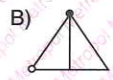
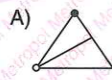
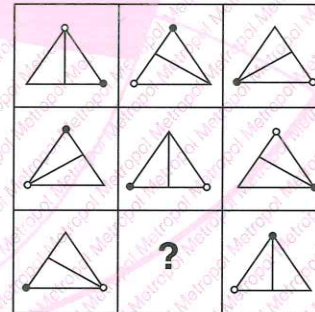
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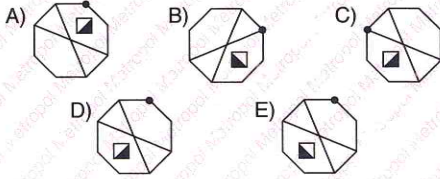
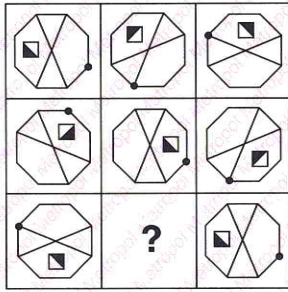
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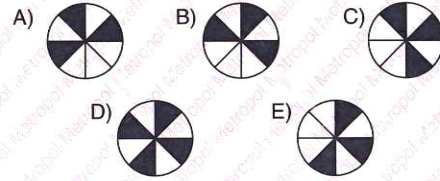
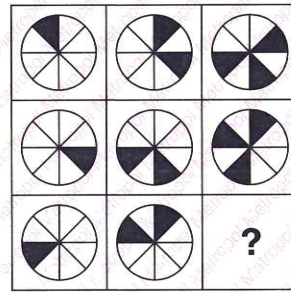
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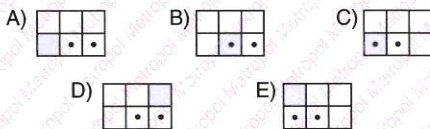
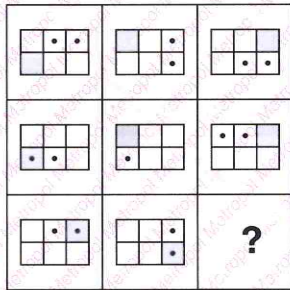
5.



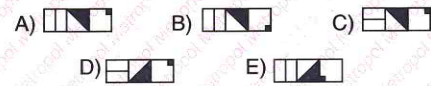
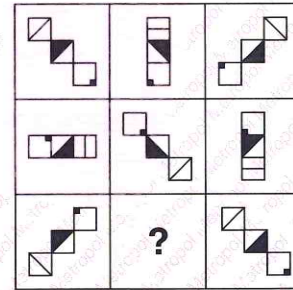
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6.



8.

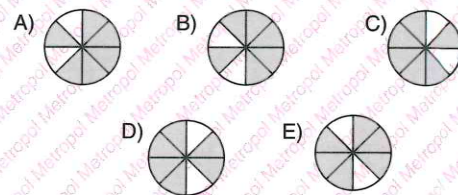
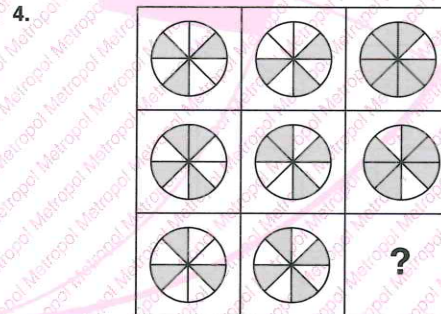
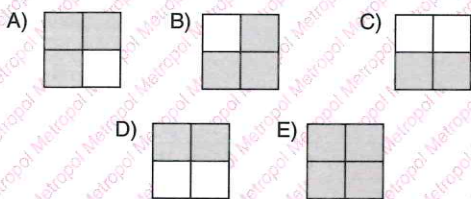
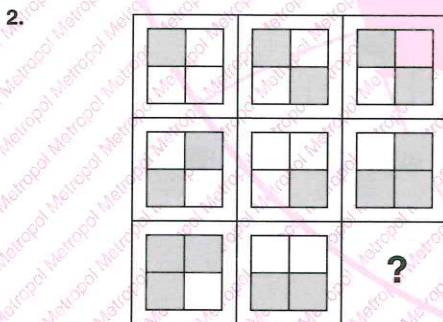
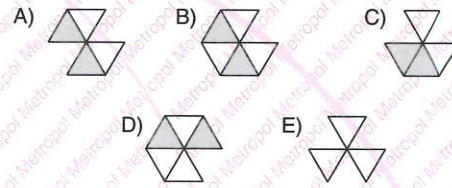
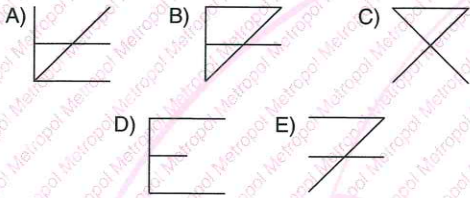
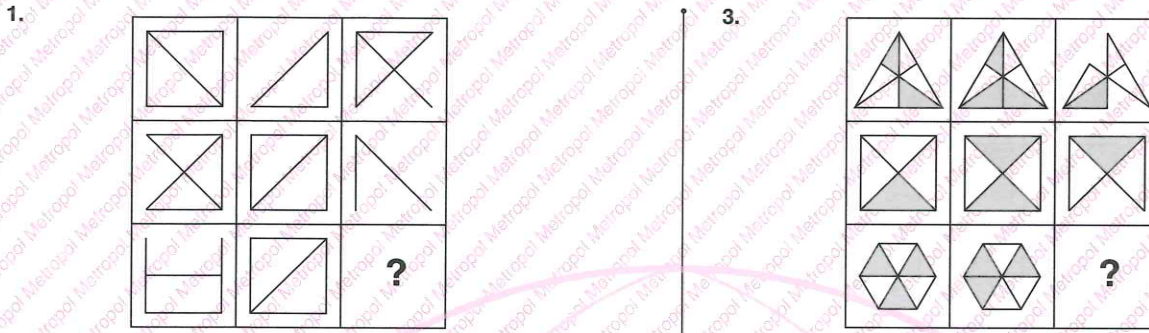


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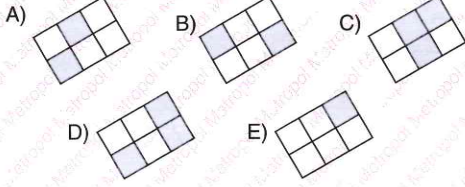
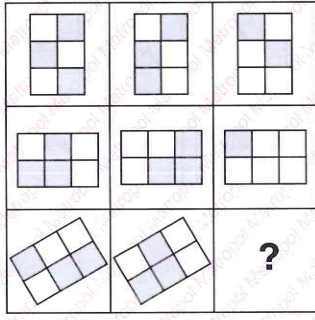


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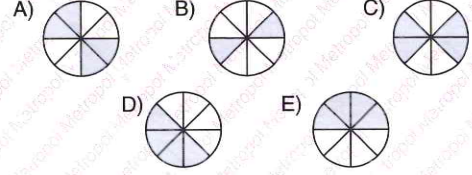
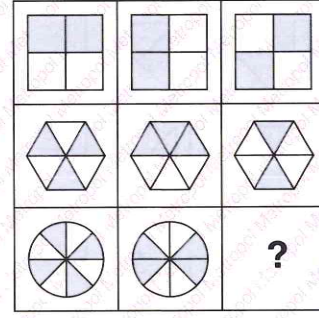
1	C	3	D	5	D	7	C
2	B	4	C	6	A	8	A



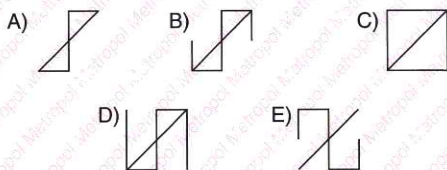
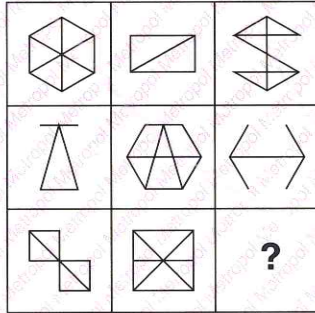
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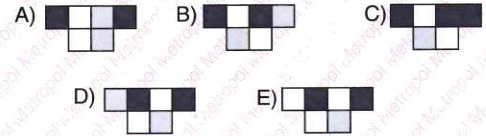
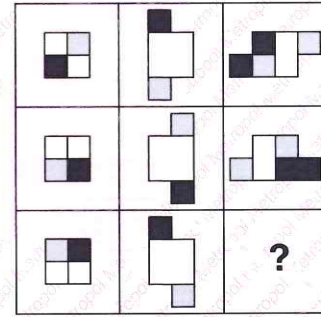
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6.



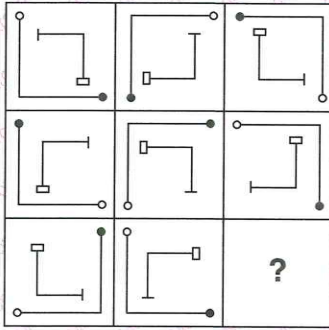
8.



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

1.



A)



B)



C)



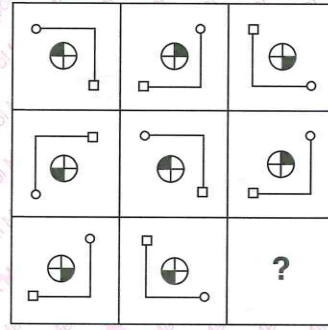
D)



E)



3.



A)



B)



C)



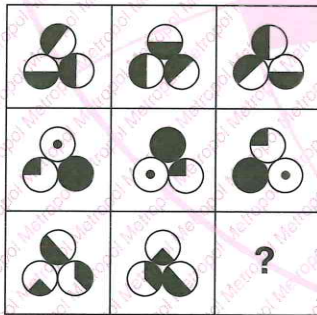
D)



E)



2.



A)



B)



C)



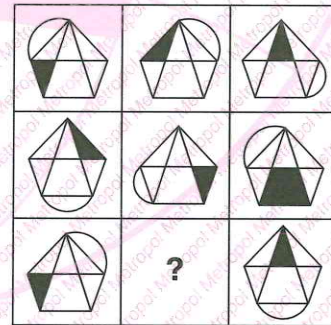
D)



E)



4.



A)



B)



C)



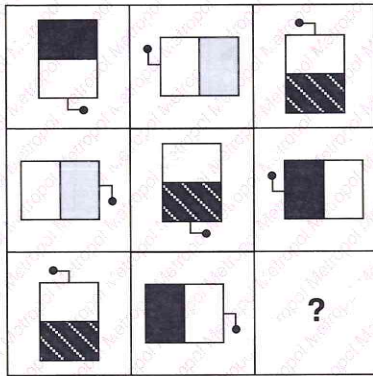
D)



E)

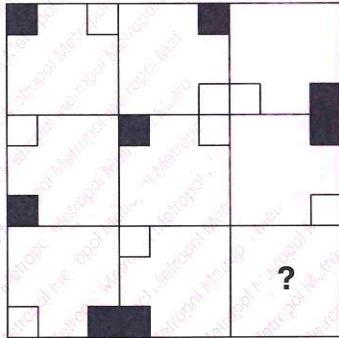


5.



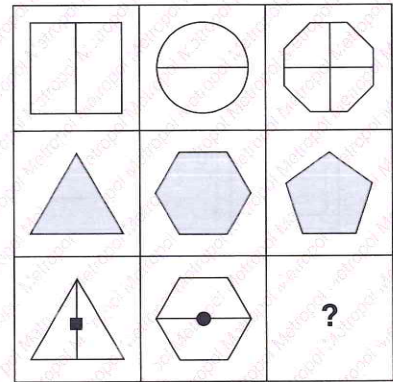
- A) B) C) D) E)

6.



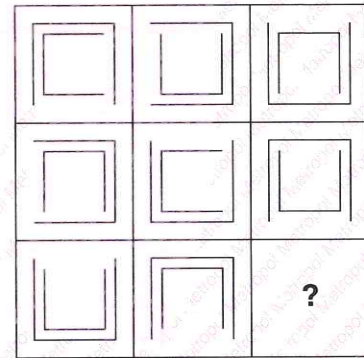
- A) B) C) D) E)

7.



- A) B) C) D) E)

8.



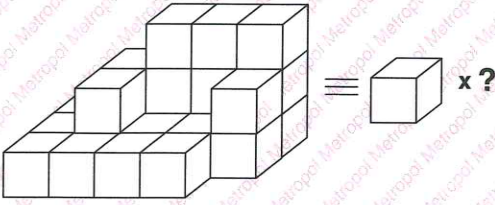
- A) B) C) D) E)



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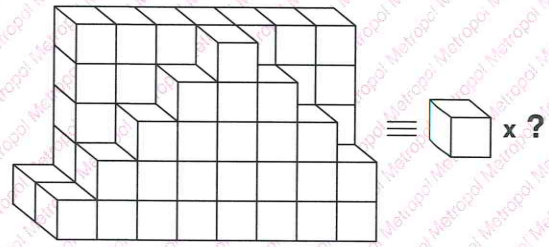
1	D	3	E	5	E	7	B
2	C	4	E	6	B	8	B

1.



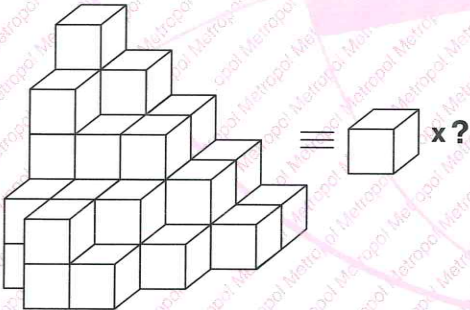
- A) 21
B) 22
C) 23
D) 24
E) 25

3.



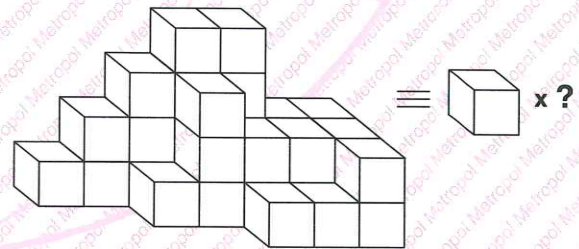
- A) 58
B) 59
C) 60
D) 61
E) 62

2.



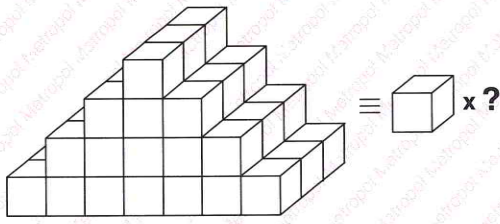
- A) 36
B) 37
C) 38
D) 39
E) 40

4.



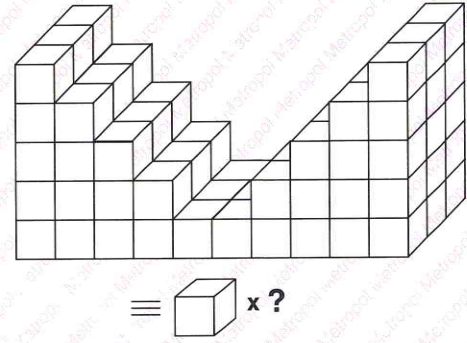
- A) 34
B) 32
C) 30
D) 28
E) 26

5.



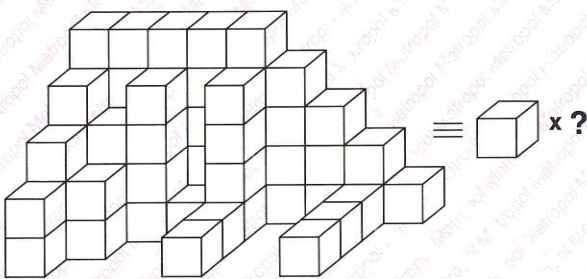
- A) 46
B) 48
C) 50
D) 52
E) 54

7.



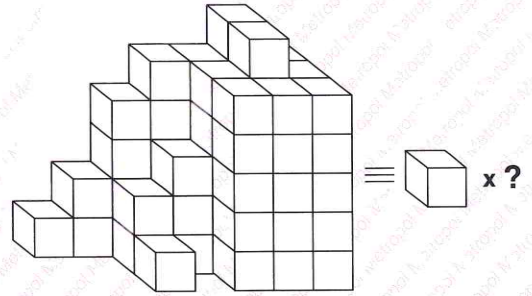
- A) 87
B) 90
C) 93
D) 96
E) 99

6.



- A) 60
B) 61
C) 62
D) 63
E) 64

8.



- A) 64
B) 65
C) 66
D) 67
E) 68

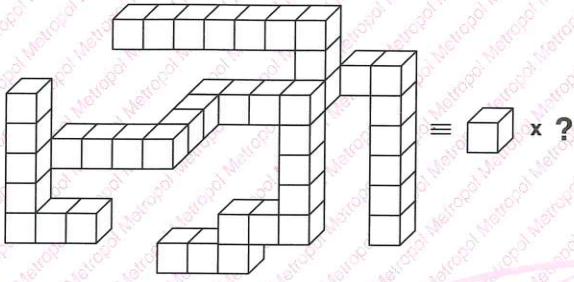
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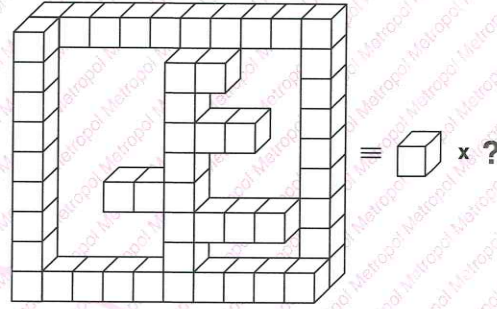
1	C	3	C	5	B	7	B
2	C	4	B	6	D	8	B

1.



- A) 41
B) 42
C) 43
D) 44
E) 45

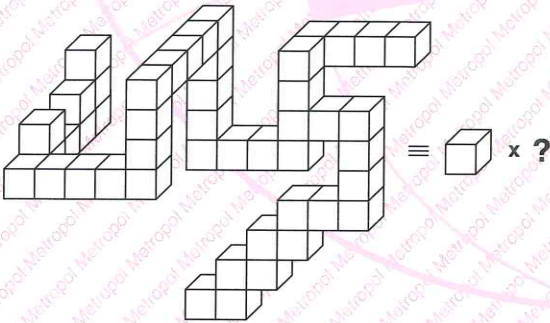
3.



- A) 48
B) 49
C) 50
D) 51
E) 52

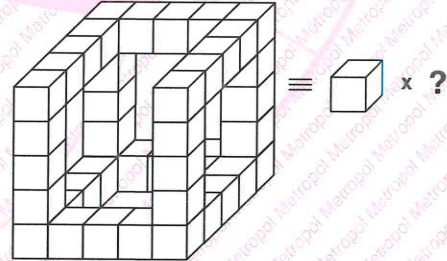
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2.



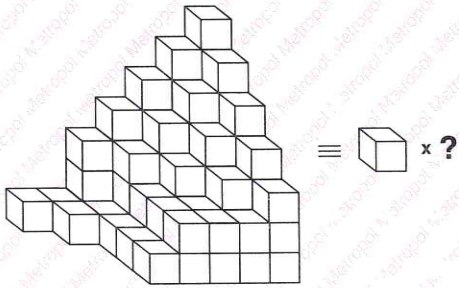
- A) 45
B) 46
C) 47
D) 48
E) 49

4.



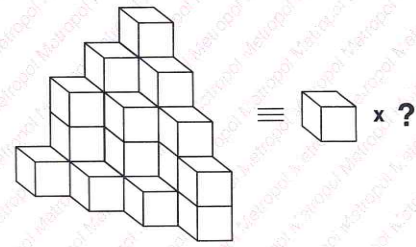
- A) 40
B) 41
C) 42
D) 43
E) 44

5.



- A) 80
B) 81
C) 82
D) 83
E) 84

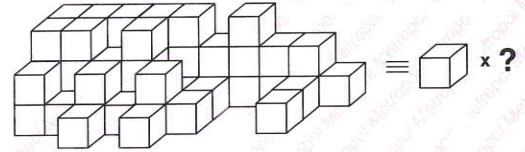
7.



- A) 21
B) 22
C) 25
D) 27
E) 29

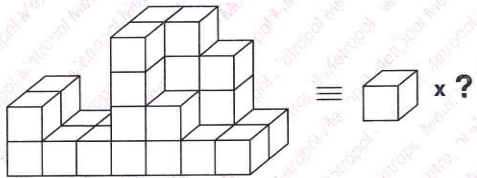
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8.



- A) 48
B) 51
C) 53
D) 56
E) 58

6.



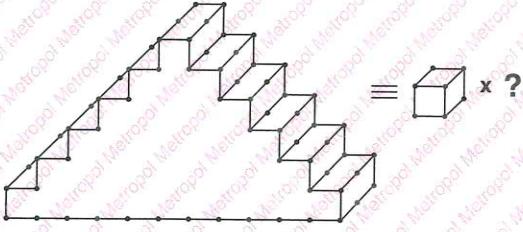
- A) 22
B) 24
C) 26
D) 28
E) 30



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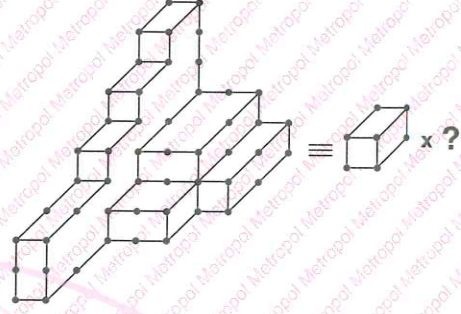
1	B	3	D	5	E	7	D
2	C	4	B	6	D	8	B

1.



- A) 62
B) 64
C) 68
D) 70
E) 72

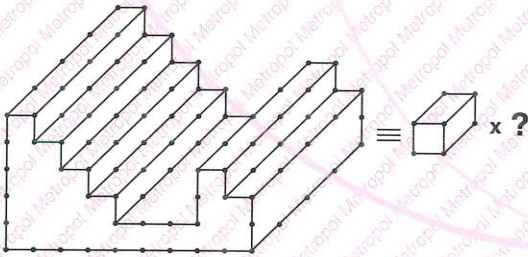
3.



- A) 22
B) 24
C) 26
D) 28
E) 30

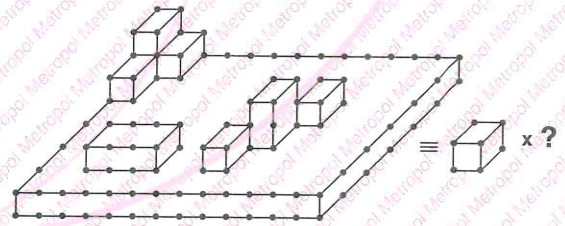
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2.



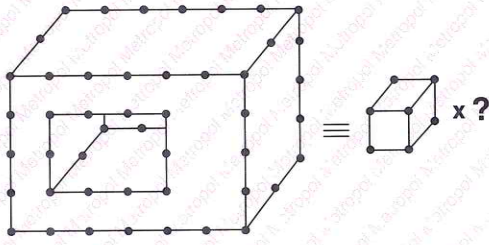
- A) 82
B) 84
C) 86
D) 88
E) 90

4.



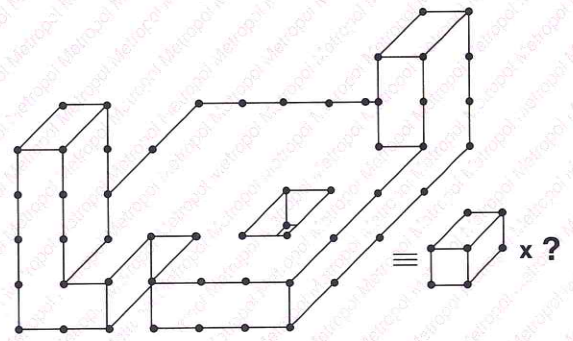
- A) 86
B) 87
C) 88
D) 89
E) 90

5.



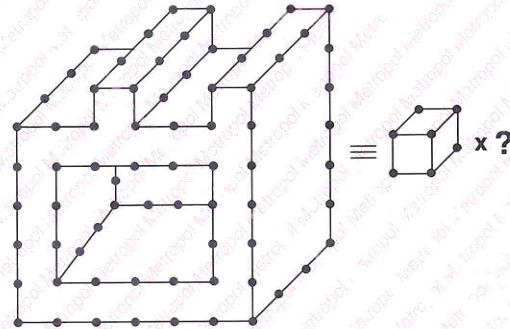
- A) 34
B) 36
C) 38
D) 40
E) 42

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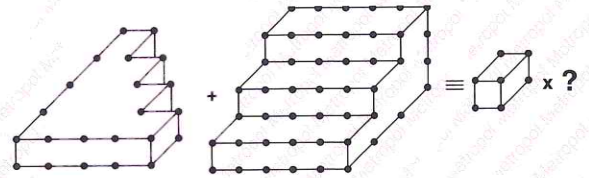
- A) 27
B) 28
C) 29
D) 30
E) 31

6.



- A) 54
B) 57
C) 60
D) 63
E) 69

8.



- A) 38
B) 40
C) 42
D) 44
E) 46

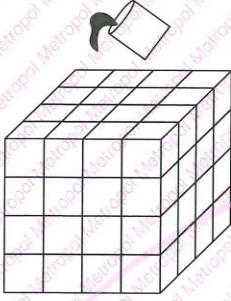


YANITLARI / ANSWERS

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

1 – 3 soruları aşağıdaki bilgilere göre cevaplayınız.

According to information below, answer the questions 1 – 3.



Yukarıdaki şekil birbirine eş 64 küpten oluşmuştur. Oluşan büyük küpün bütün yüzeyleri sarıya boyanmıştır.

Figure above is made from 64 small cubes equaling to each other. All surfaces of cube made are painted with yellow.

1. Sadece bir yüzü boyalı kaç küçük küp vardır?

How many small cubes with painted only one surface are made?

- A) 4 B) 8 C) 12 D) 16 E) 24

2. Sadece iki yüzü boyalı kaç küçük küp vardır?

How many small cubes with painted only two surface are made?

- A) 4 B) 8 C) 16 D) 24 E) 32

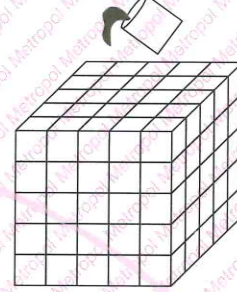
3. Boyasız kaç küçük küp vardır?

How many small paintless cubes are there?

- A) 2 B) 4 C) 8 D) 16 E) 32

4 – 6 soruları aşağıdaki bilgilere göre cevaplayınız.

According to information below, answer the questions 4 – 6.



Yukarıdaki şekil 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 boyalı olan kaç küçük küp vardır?

How many cubes with one painted surface at least are made?

- A) 96 B) 98 C) 100 D) 102 E) 104

5. En fazla bir yüzeyi boyalı olan kaç küçük küp vardır?

How many cubes with one painted surface at most are made?

- A) 63 B) 72 C) 81 D) 90 E) 98

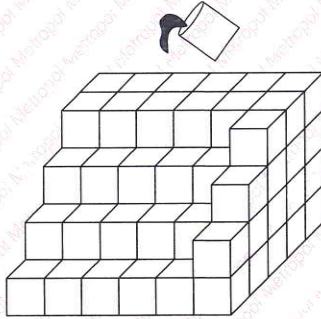
6. Sadece üç yüzeyi boyalı olan kaç küçük küp vardır?

How many small cubes with painted only three surface are made?

- A) 4 B) 6 C) 8 D) 10 E) 12

7 – 9 soruları aşağıdaki bilgilere göre cevaplayınız.

According to information below, answer the questions 7 – 9.



Yukarıdaki şekil birbirine eş küçük küplerden oluşmuştur.
Bu şeklin bütün yüzeyleri sarıya boyanmıştır.

Figure above is made from small cubes equaling to each other
All surfaces of cube made are painted with yellow.

7. Sadece bir yüzü boyalı kaç küçük küp vardır?

How many small cubes with painted only one surface are made?

- A) 22 B) 23 C) 24 D) 25 E) 26

8. Sadece dört yüzü boyalı kaç küçük küp vardır?

How many small cubes with painted only four surface are made?

- A) 3 B) 4 C) 5 D) 6 E) 7

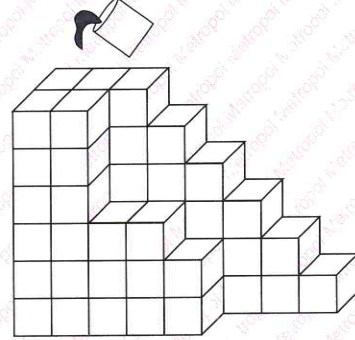
9. Boyasız kaç küçük küp vardır?

How many small paintless cubes are there?

- A) 2 B) 4 C) 8 D) 12 E) 16

10 – 12 soruları aşağıdaki bilgilere göre cevaplayınız.

According to information below, answer the questions 10 – 12.



Yukarıdaki şekil birbirine eş küçük küplerden oluşmuştur.

Bu şeklin bütün yüzeyleri kırmızıya boyanmıştır.

Figure above is made from small cubes equaling to each other. All surfaces of this cube are painted with red.

10. En az bir yüzeyi kırmızı olan kaç küçük küp vardır?

How many cubes with one red surface at least are made?

- A) 51 B) 52 C) 53 D) 54 E) 55

11. En fazla iki yüzeyi kırmızı olan kaç küçük küp vardır?

How many cubes with two red surface at most are made?

- A) 32 B) 33 C) 34 D) 35 E) 36

12. Sadece üç yüzeyide boyalı olan kaç küçük küp vardır?

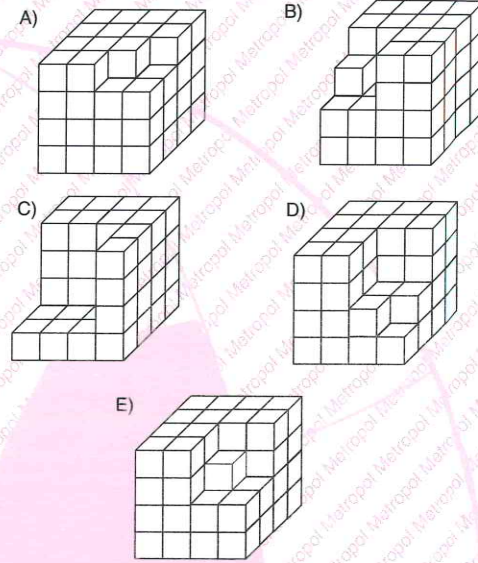
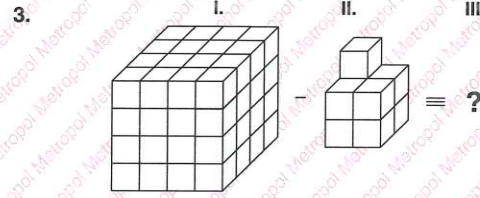
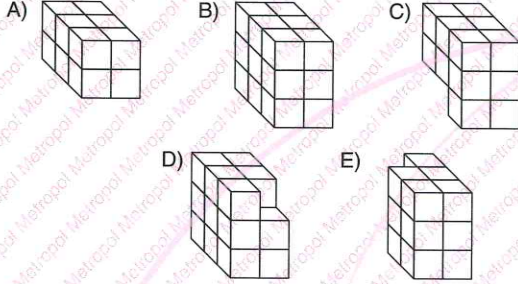
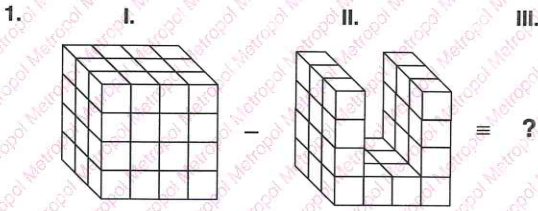
How many small cubes with painted only three surface are made?

- A) 4 B) 6 C) 8 D) 10 E) 11

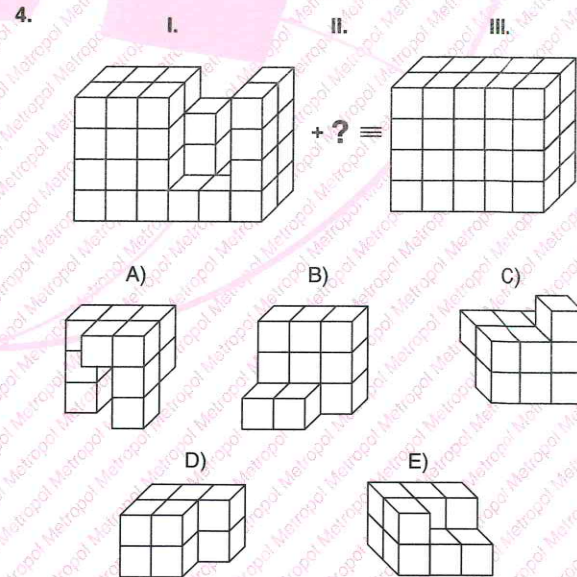
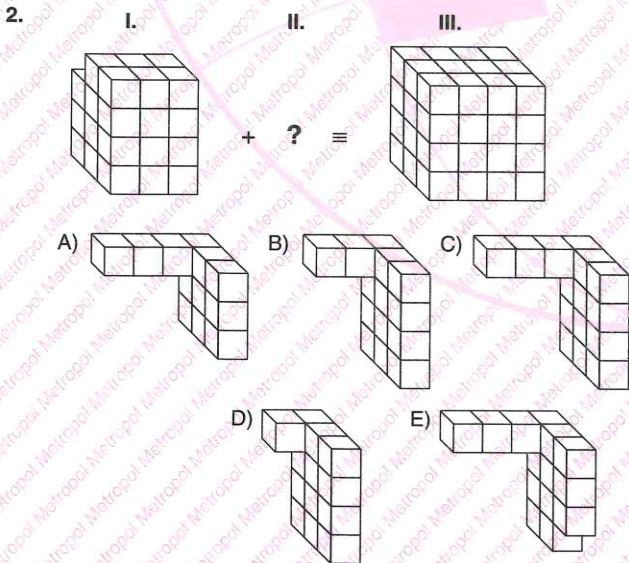


YANITLAR / ANSWERS

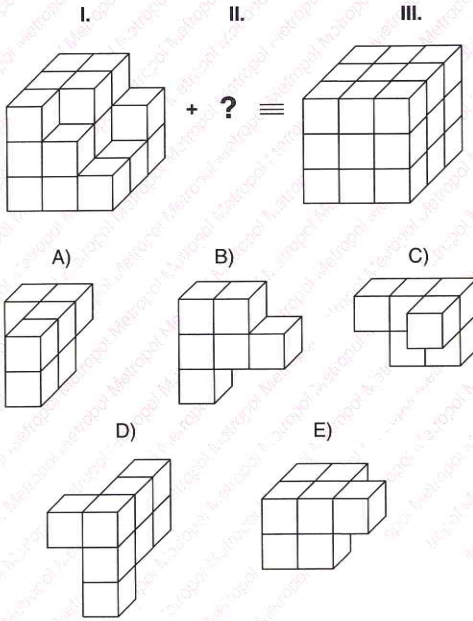
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2	D	4	B	6	C	8	B	10	C	12	C



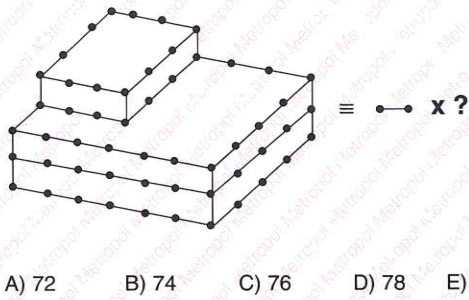
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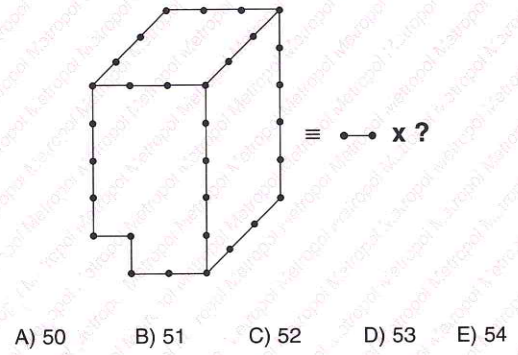
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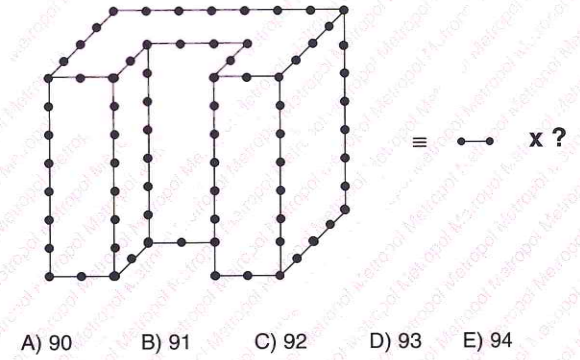
6.



7.



8.



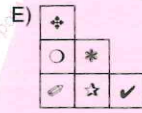
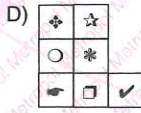
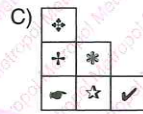
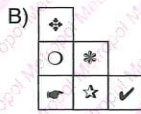
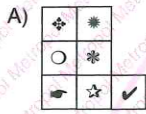
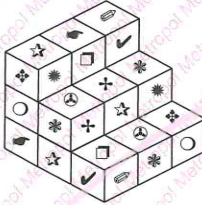
YANITLAR / ANSWERS

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

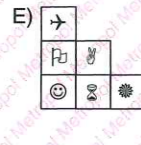
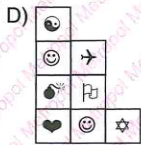
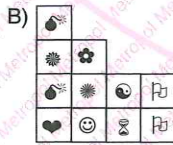
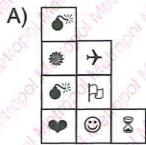
1. ve 2. sorularda verilen cisimlerin soldan görüntüsünü bulunuz.

In the questions 1 and 2, find the left view of the given solid objects.

1.



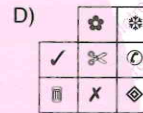
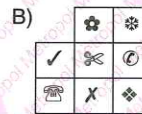
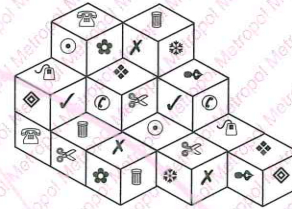
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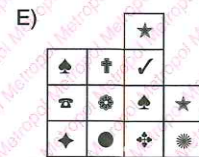
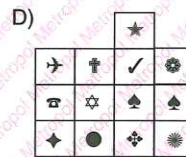
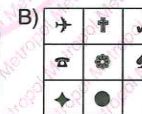
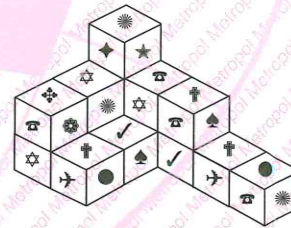
3.

3. ve 4. sorularda verilen cisimlerin sağdan görüntüsünü bulunuz.

In the questions 3 and 4, find the right view of the given solid objects.



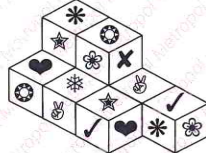
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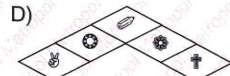
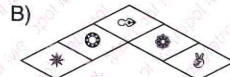
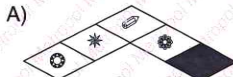
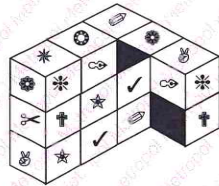
5, 6, 7 ve 8. sorularda verilen cisimlerin kuş bakışı görüntüsünü bulunuz.

In the questions 5, 6, 7 and 8. find the top view of the given solid objects.

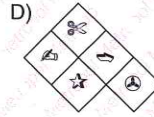
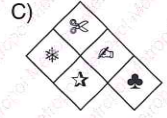
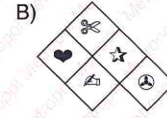
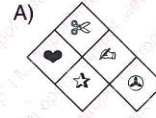
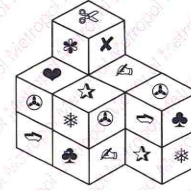
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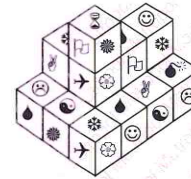
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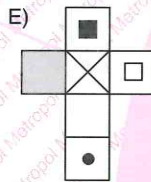
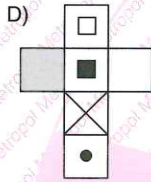
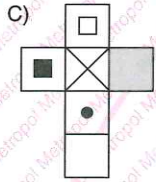
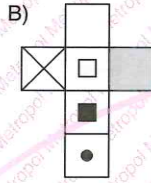
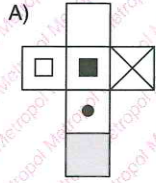
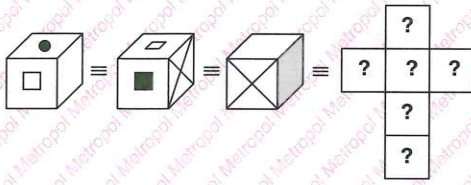
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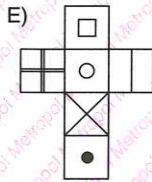
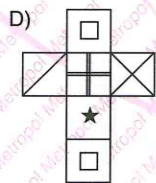
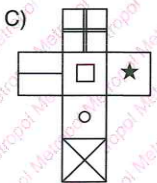
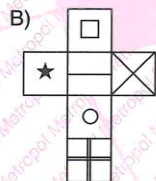
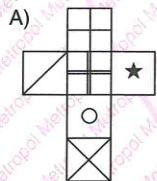
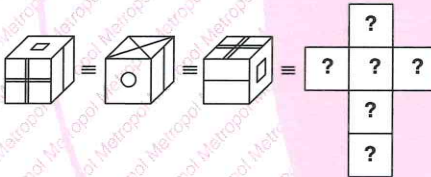
YANITLAR / ANSWERS

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

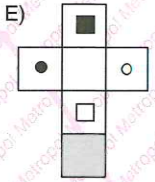
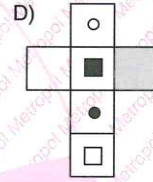
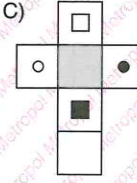
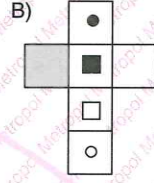
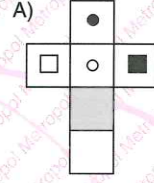
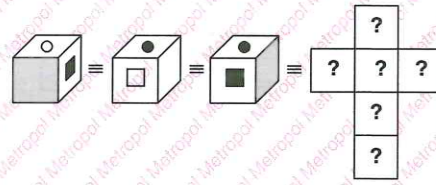
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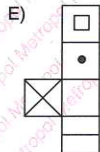
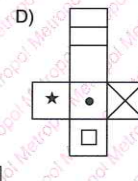
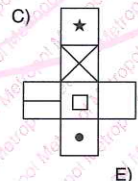
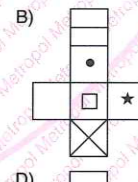
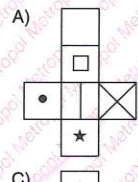
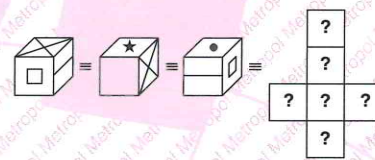
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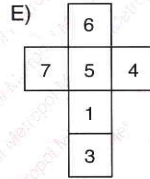
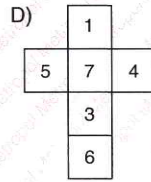
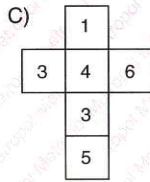
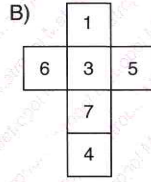
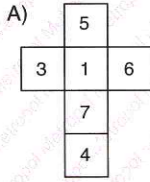
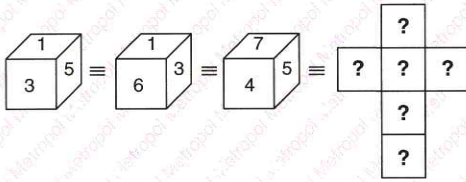
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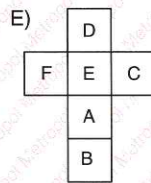
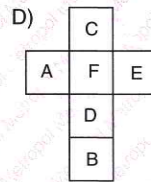
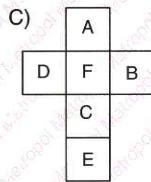
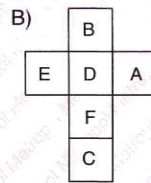
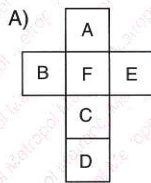
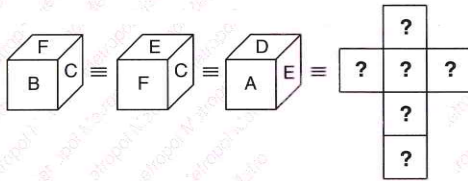
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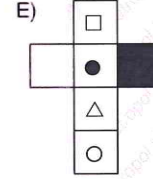
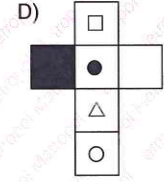
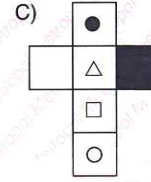
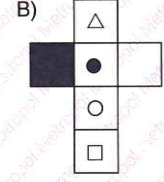
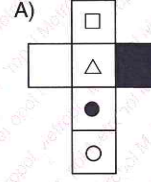
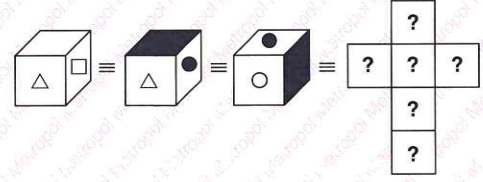
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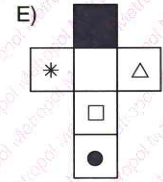
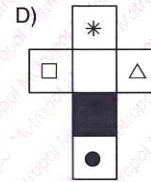
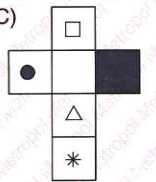
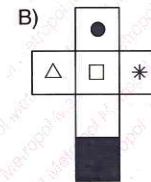
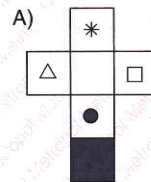
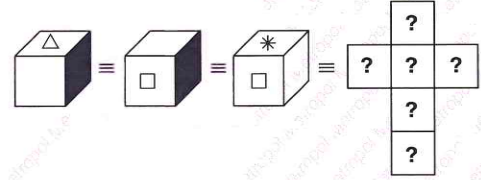
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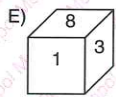
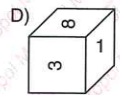
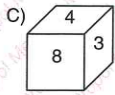
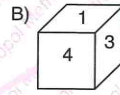
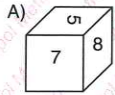
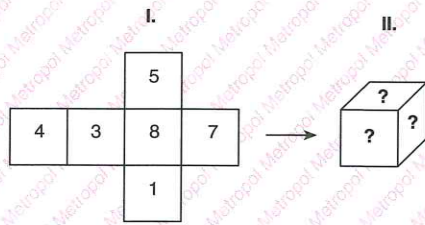
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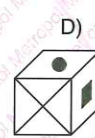
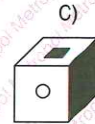
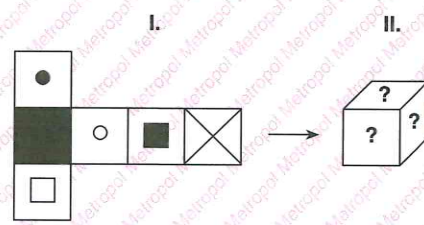
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1	E	3	A	5	B	7	A
2	C	4	A	6	A	8	C

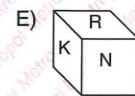
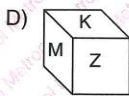
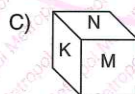
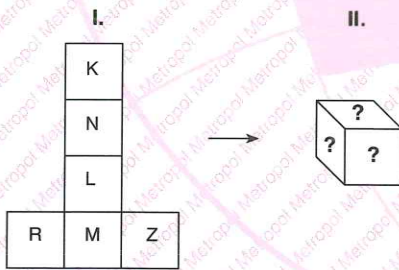
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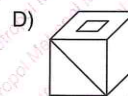
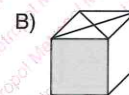
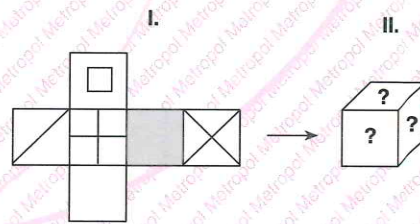
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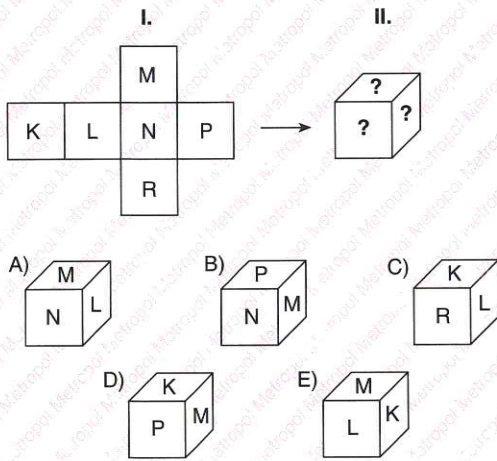
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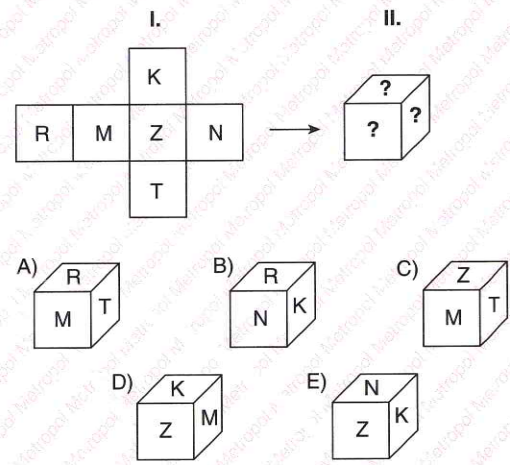
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5.

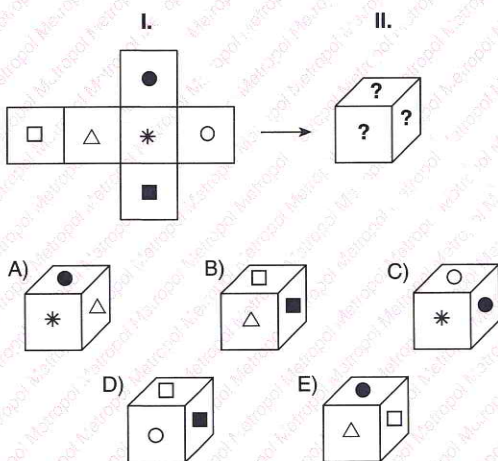


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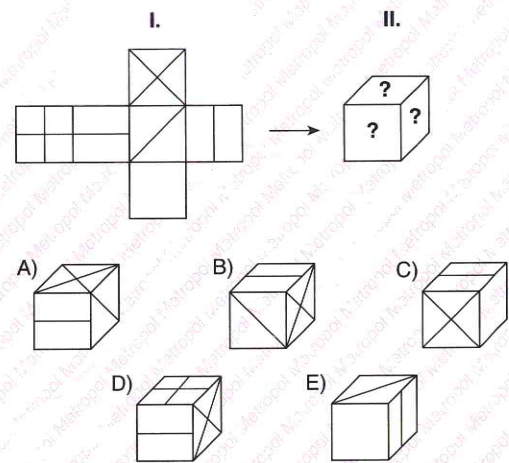


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6.

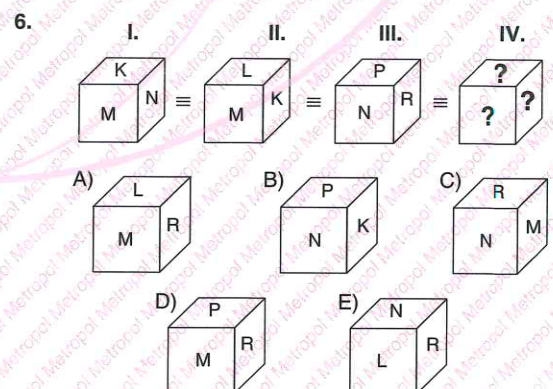
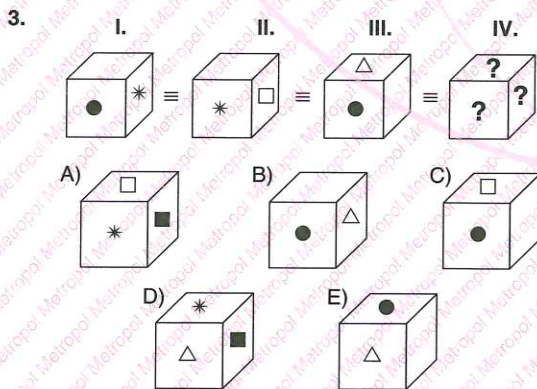
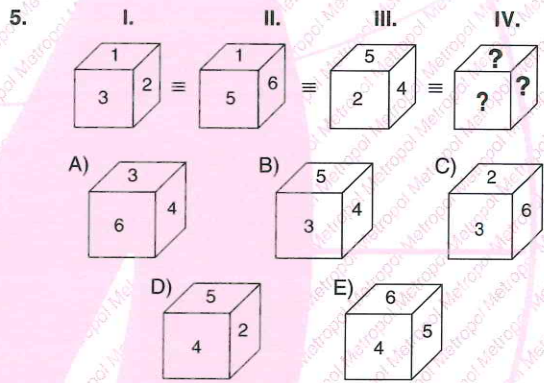
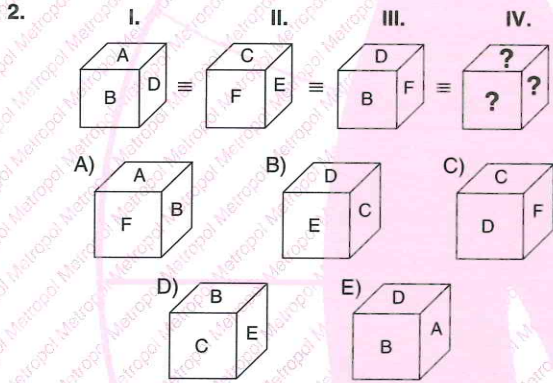
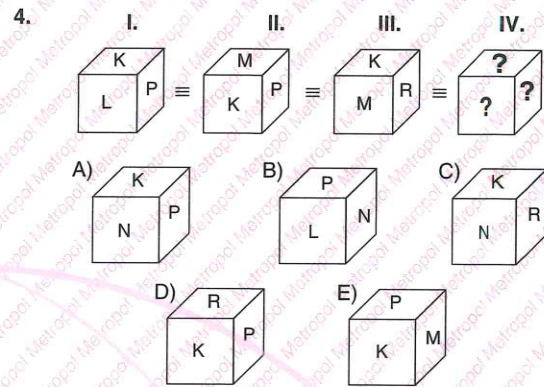
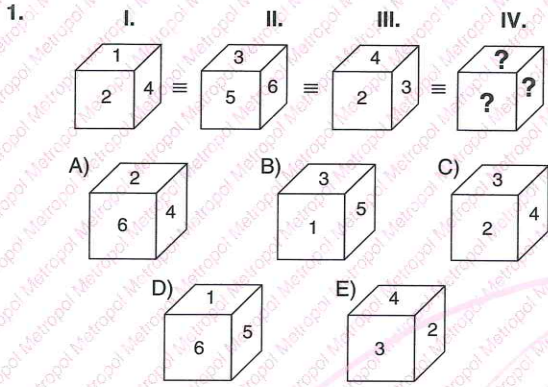


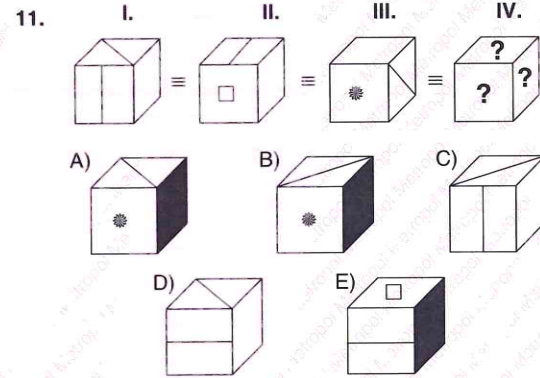
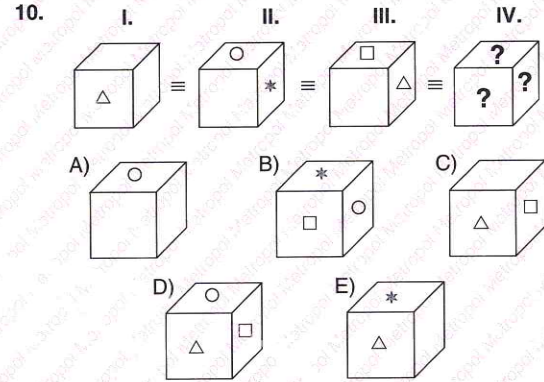
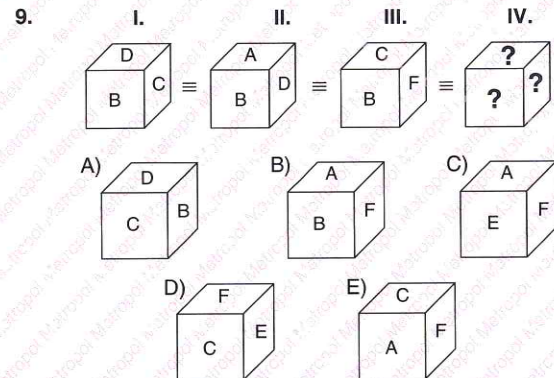
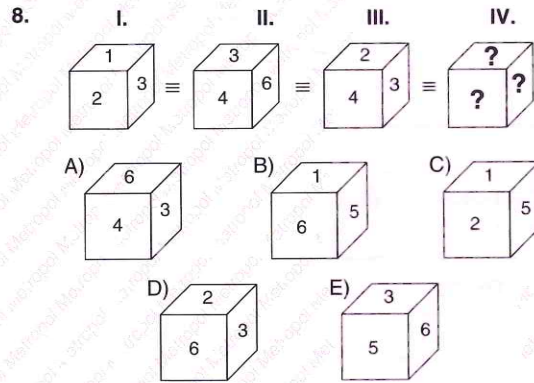
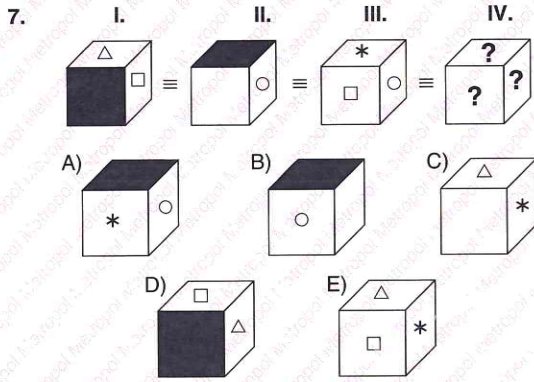
8.



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





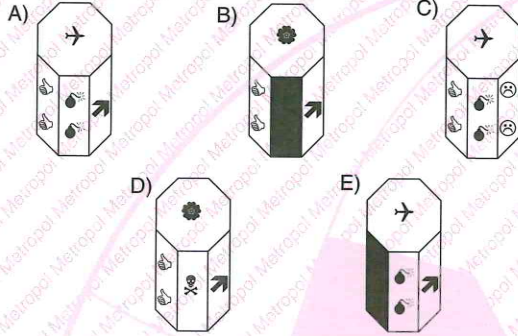
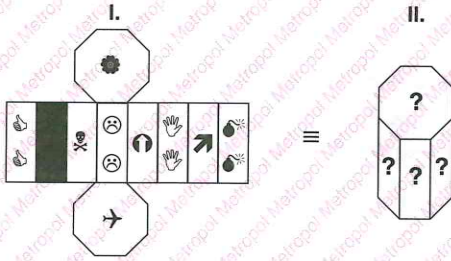
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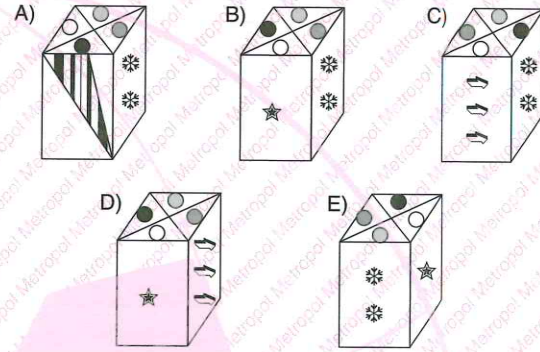
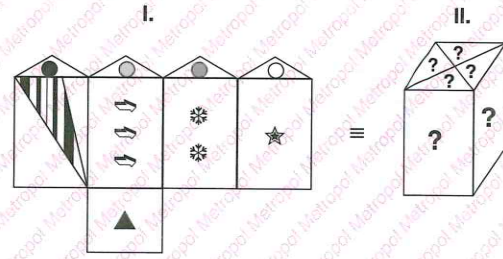
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1	D	3	A	5	A	7	E	9	C	11	B
2	C	4	B	6	C	8	B	10	C	12	

1.

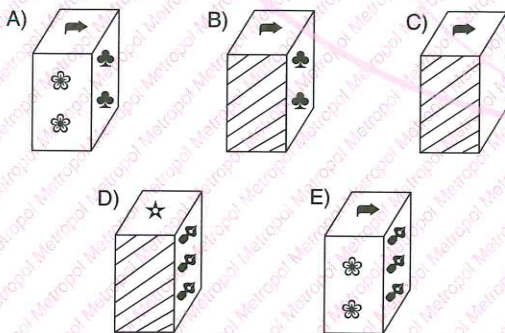
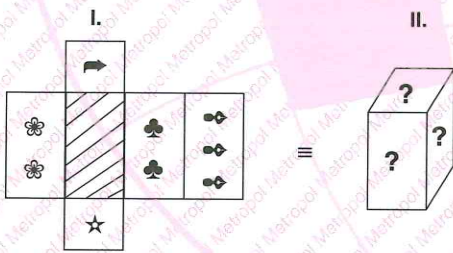


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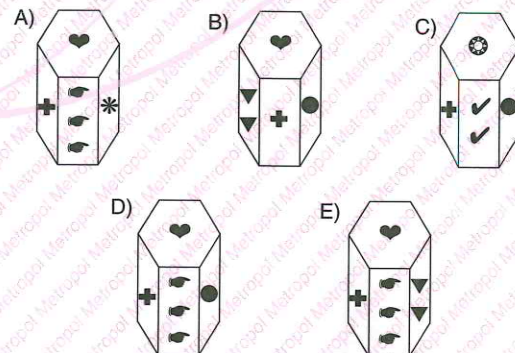
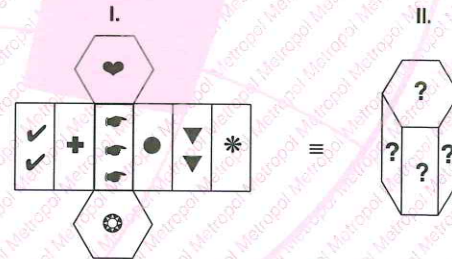


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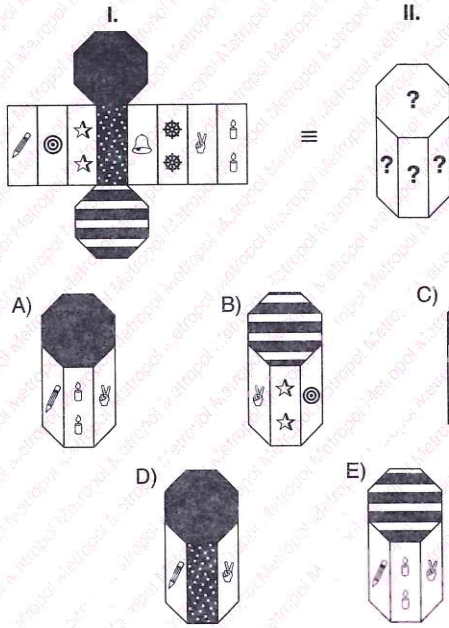
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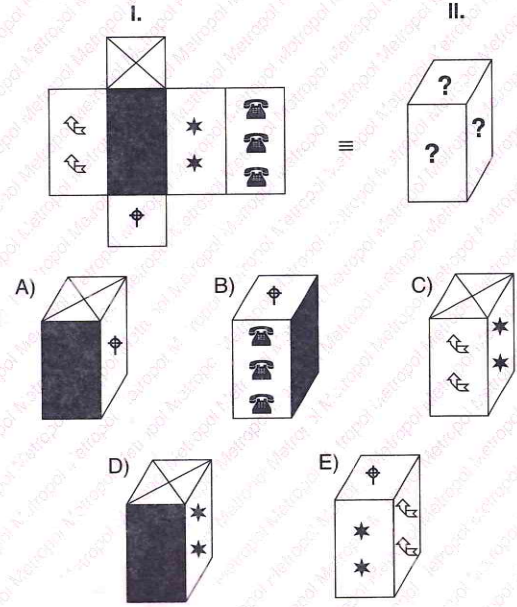
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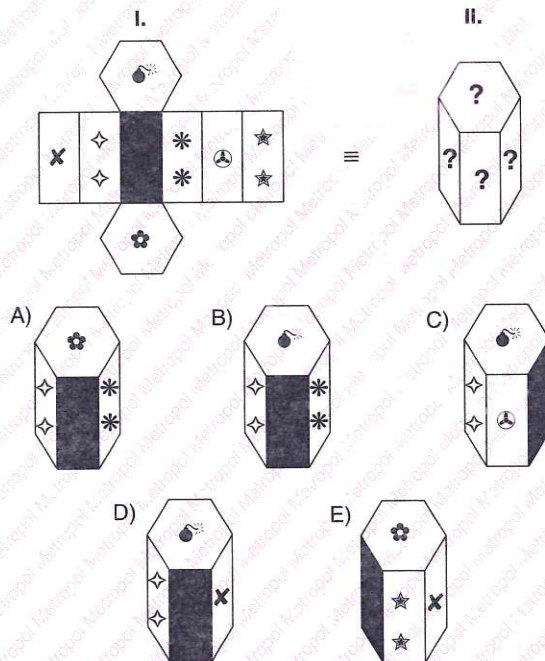
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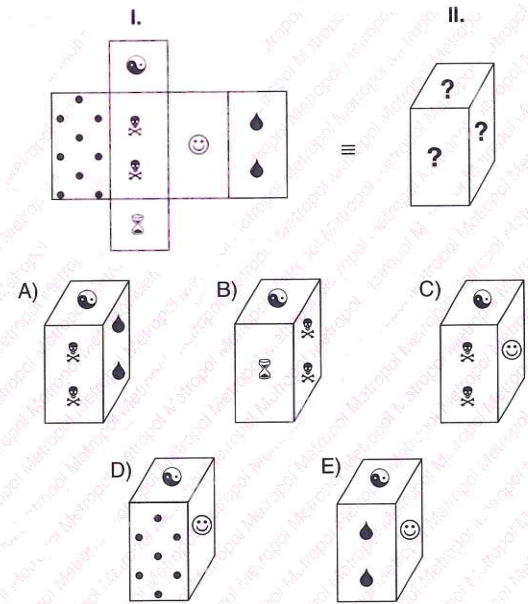
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6.

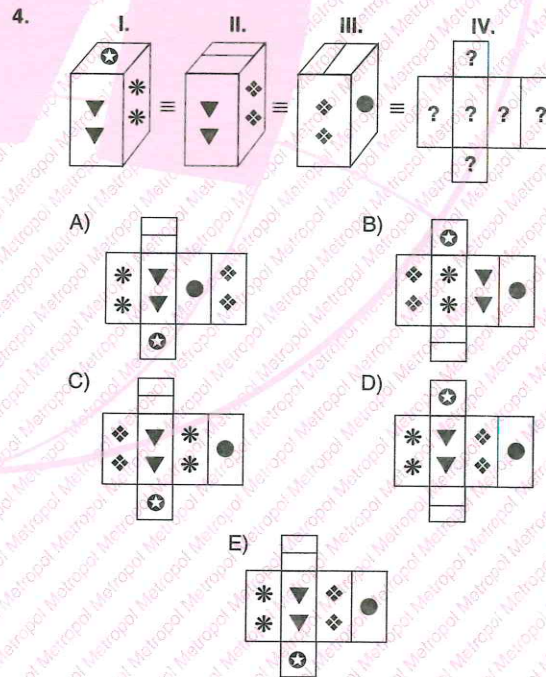
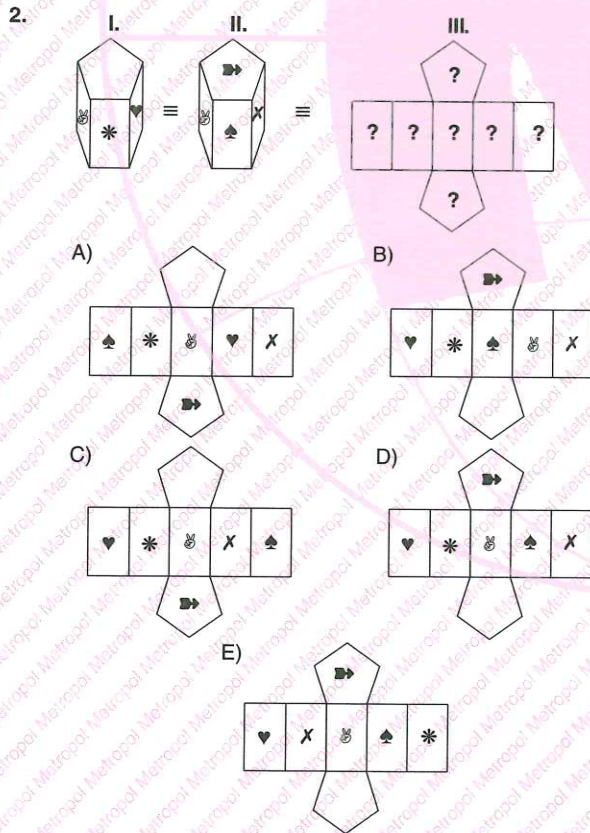
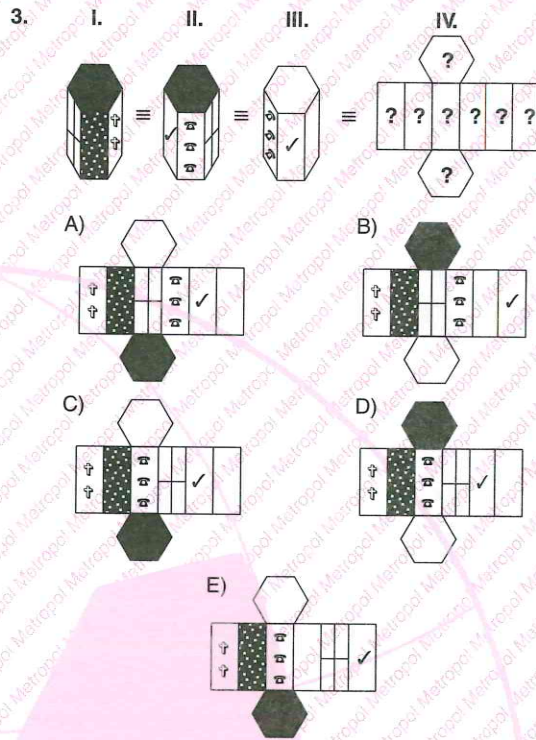
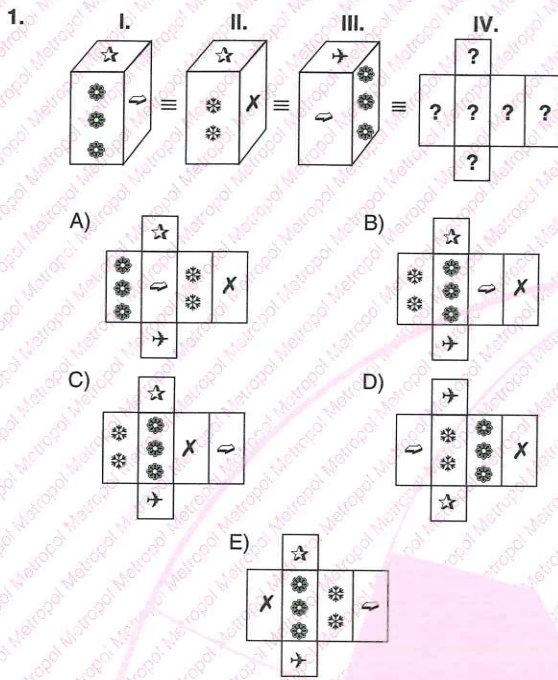


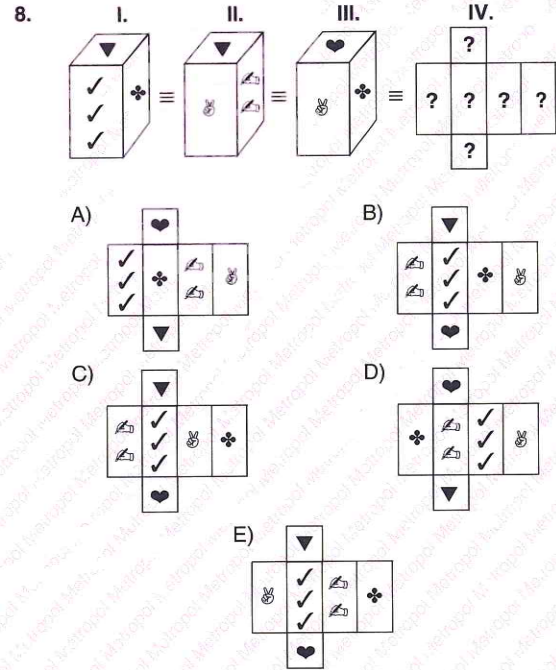
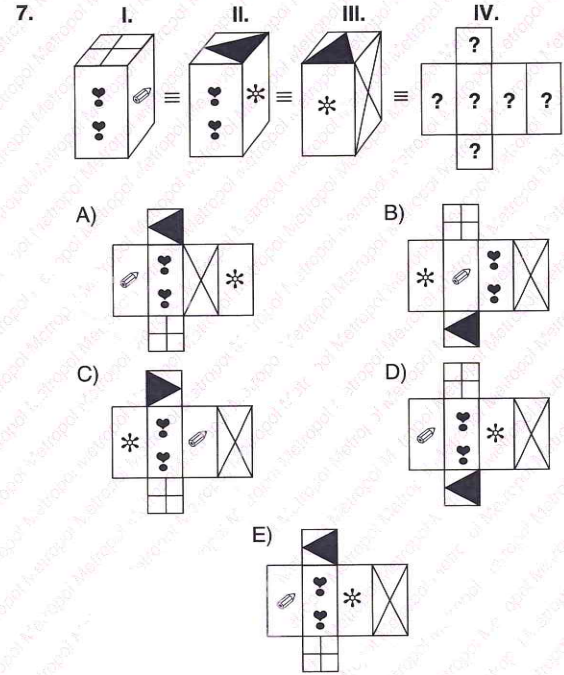
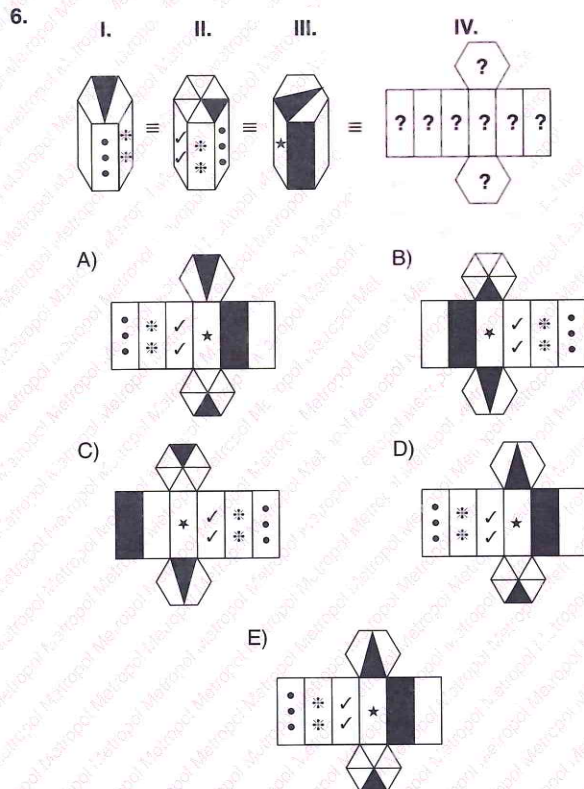
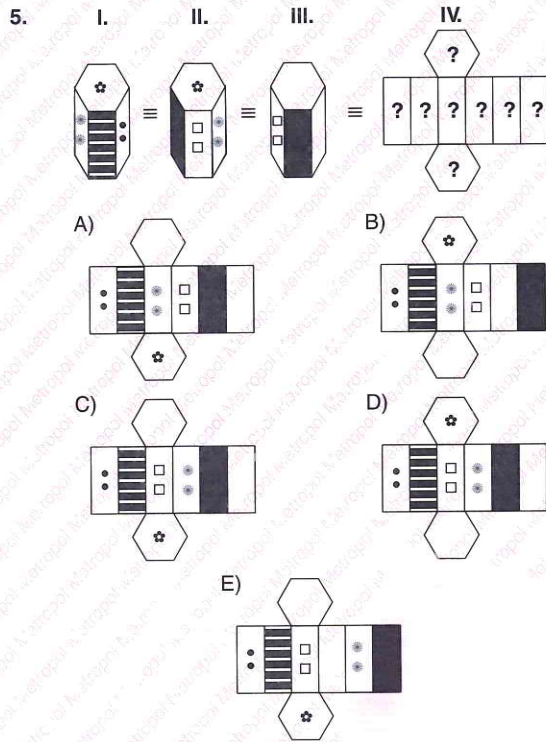
8.



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

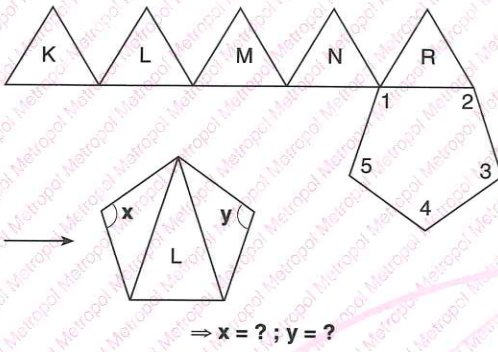




YANITLAR / ANSWERS

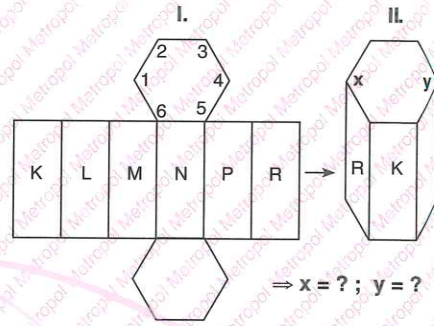
1	A	3	A	5	A	7	E
2	D	4	E	6	D	8	B

1.



- A) 4;1
B) 3;5
C) 1;3
D) 2;4
E) 5;2

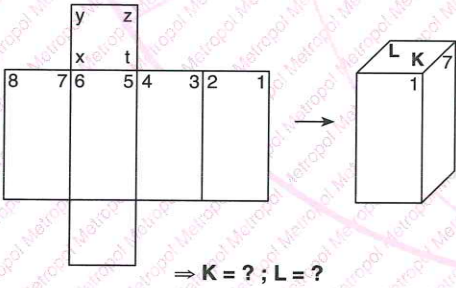
3.



- A) 2; 5
B) 3; 6
C) 2; 6
D) 1; 5
E) 4; 1

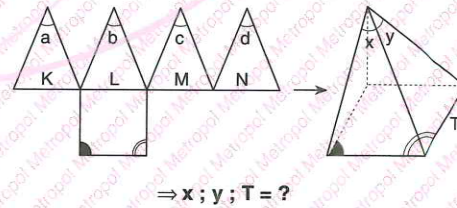
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2.



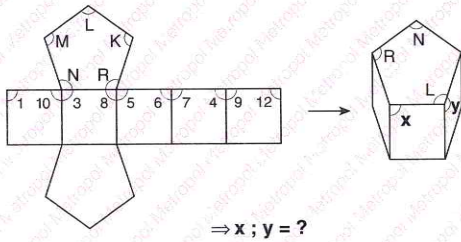
- A) y; t
B) z; x
C) y; x
D) x; t
E) t; z

4.



- A) a; c; L
B) b; a; K
C) a; d; N
D) d; c; M
E) d; a; M

5.



$\Rightarrow x; y = ?$

A) 4; 2

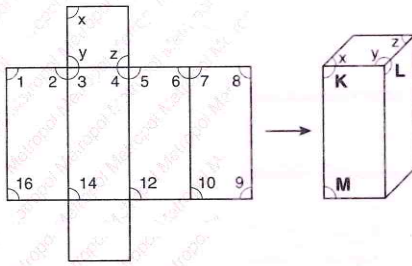
B) 7; 9

C) 5; 7

D) 9; 1

E) 2; 10

6.



$\Rightarrow K; L; M = ?$

A) 1; 2; 16

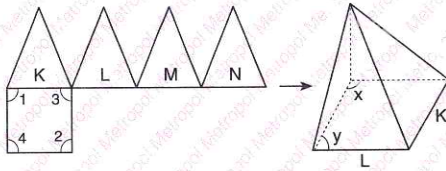
B) 1; 3; 16

C) 8; 2; 14

D) 8; 3; 14

E) 1; 3; 14

7.



$\Rightarrow x; y = ?$

A) 4; 2

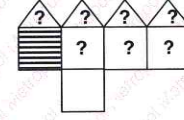
B) 2; 3

C) 3; 4

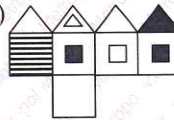
D) 1; 4

E) 1; 2

8.



A)



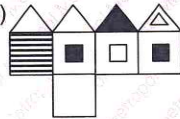
B)



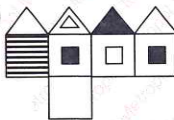
C)



D)

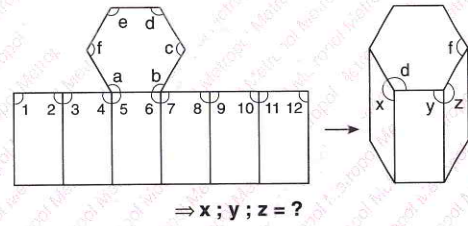


E)



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9.



$\Rightarrow x; y; z = ?$

A) 9; 11; 12

B) 10; 11; 1

C) 10; 12; 1

D) 11; 1; 2

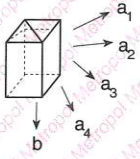
E) 9; 10; 12



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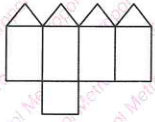
1	E	3	E	5	B	7	A	9	C	11
2	A	4	D	6	B	8	A	10		12

1.

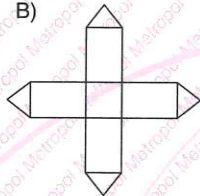


$$a_1 = a_2 = a_3 = a_4 = b \Rightarrow b = ?$$

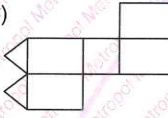
A)



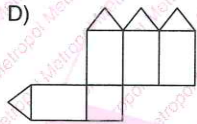
B)



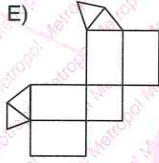
C)



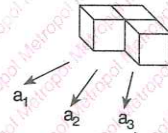
D)



E)

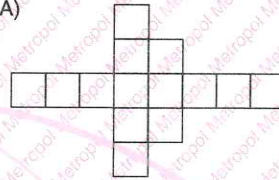


3.

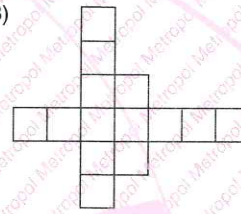


$$a_1 = a_2 = a_3 = a_4 \neq b \Rightarrow b = ?$$

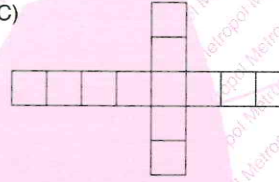
A)



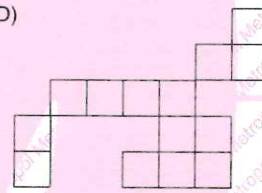
B)



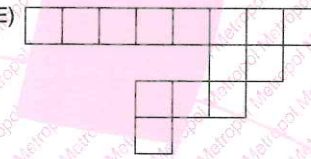
C)



D)



E)



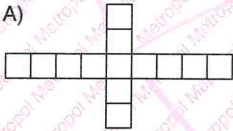
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2.

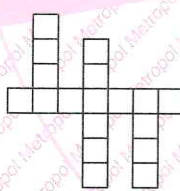


II. ?

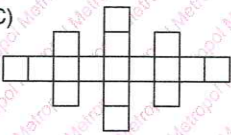
A)



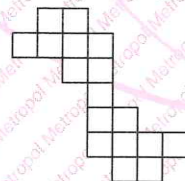
B)



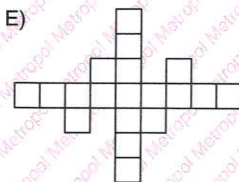
C)



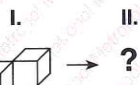
D)



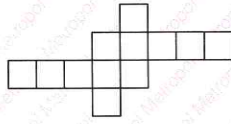
E)



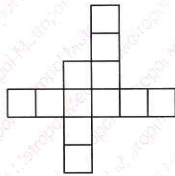
4.



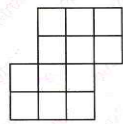
A)



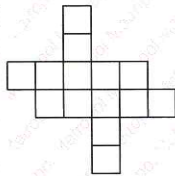
B)



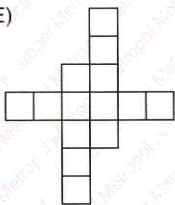
C)



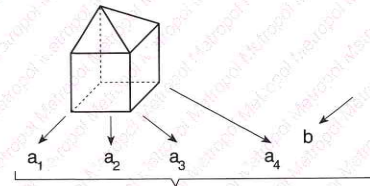
D)



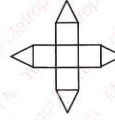
E)



5.



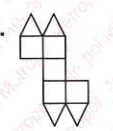
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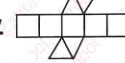
II.



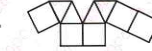
III.



IV.



V.



$$a_1 = a_2 = a_3 = a_4 \neq b \Rightarrow b = ?$$

A) I

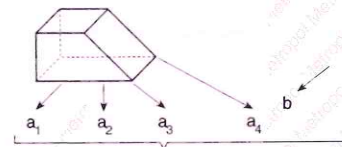
B) II

C) III

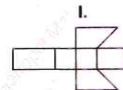
D) IV

E) V

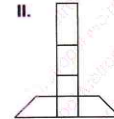
6.



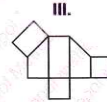
I.



II.



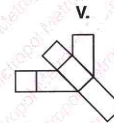
III.



IV.



V.



$$a_1 = a_2 = a_3 = a_4 \neq b \Rightarrow b = ?$$

A) I

B) II

C) III

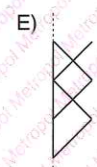
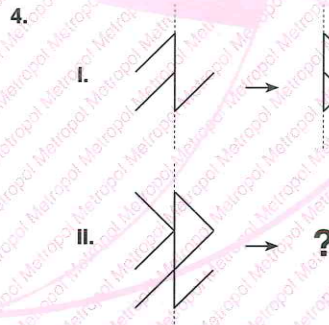
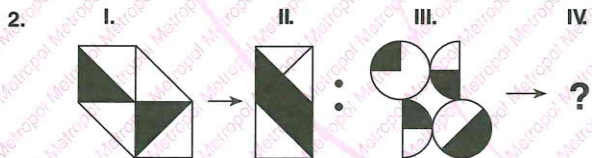
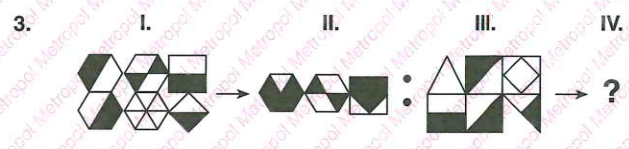
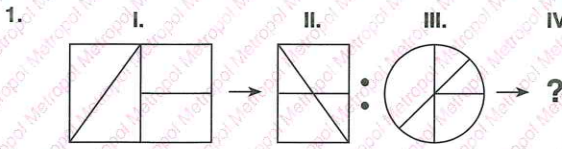
D) IV

E) V

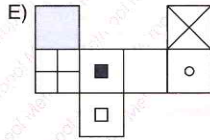
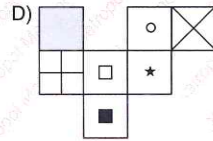
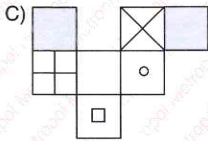
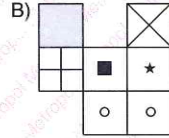
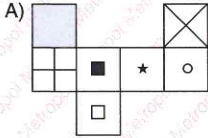
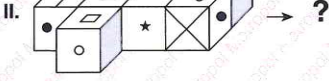
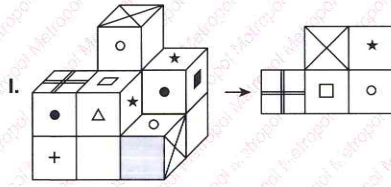


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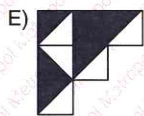
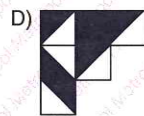
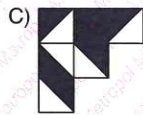
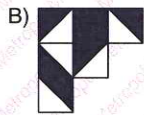
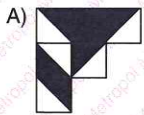
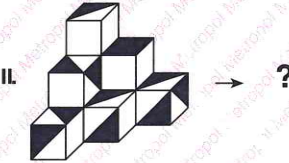
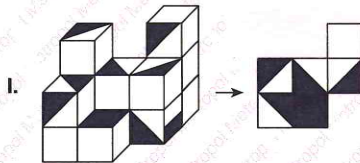
1	E	3	C	5	D	7
2	B	4	A	6	E	8



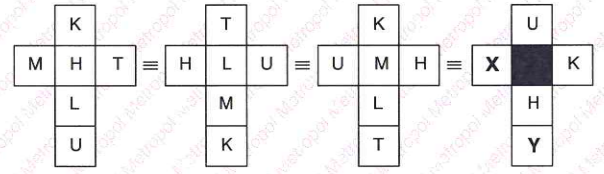
5.



6.



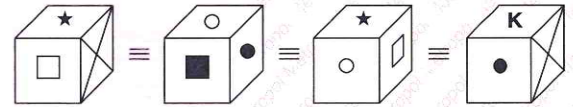
7.



$\Rightarrow X = ? ; Y = ?$

- A) L; T
B) T; L
C) M; T
D) M; L
E) L; M

8.



$\Rightarrow K = ?$

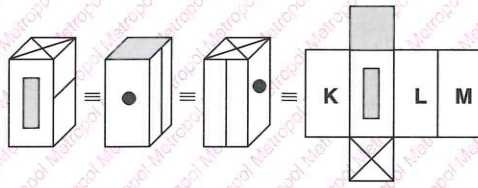
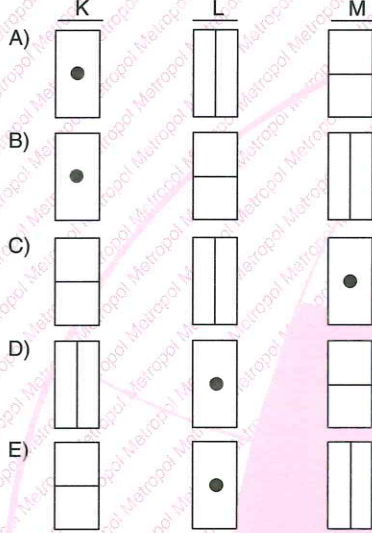
- A) ■
B) ★
C) ○
D) ●
E) □



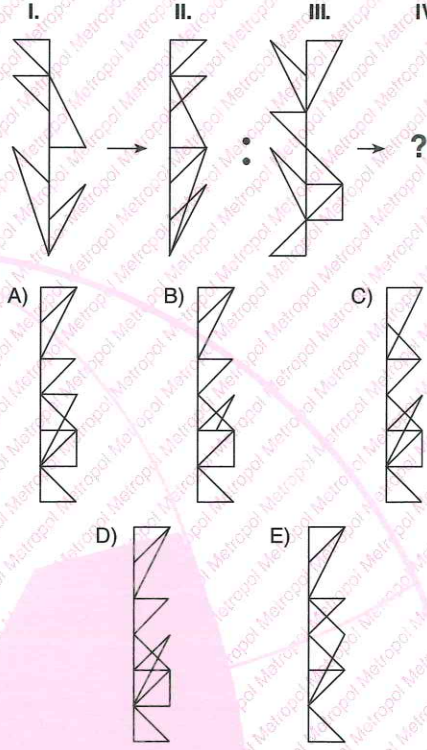
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1	E	3	D	5	E	7	A
2	C	4	A	6	D	8	E

1.

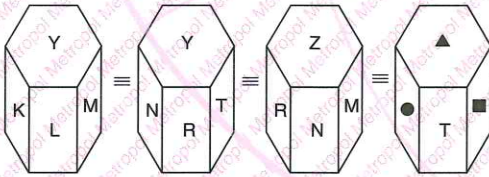

 $\Rightarrow K = ? ; L = ? ; M = ?$


3.

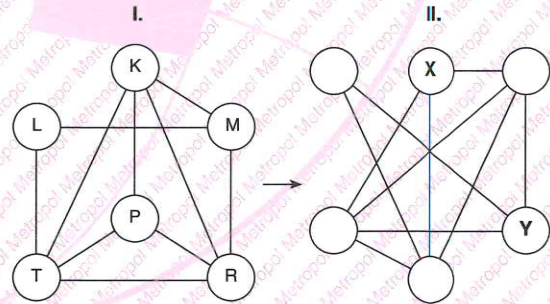


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2.

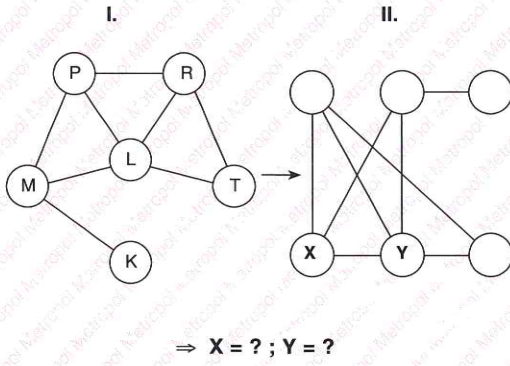

 $\Rightarrow \bullet = ? ; \blacksquare = ? ; \blacktriangle = ?$


4.


 $\Rightarrow X = ? ; Y = ?$

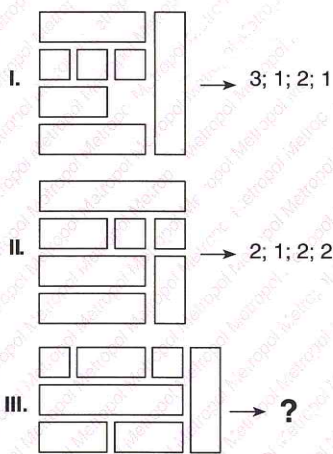
- A) P ; R
B) R ; L
C) L ; T
D) P ; M
E) T ; M

5.



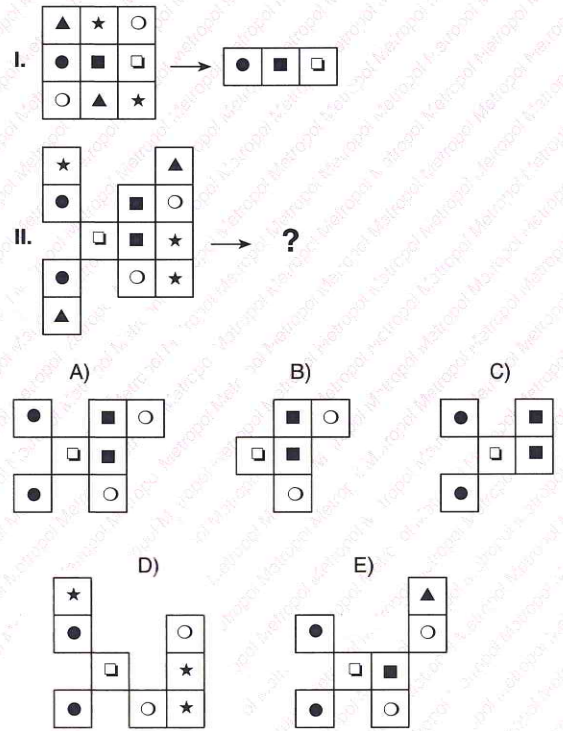
- A) P ; L
B) P ; T
C) R ; T
D) L ; M
E) L ; T

6.

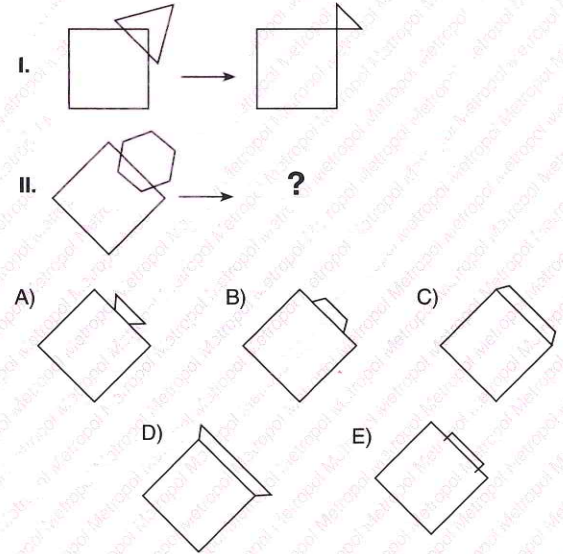


- A) 2; 3; 1; 1 B) 2; 1; 3; 1 C) 1; 2; 3; 1
D) 2; 1; 1; 3 E) 1; 3; 1; 2

7.



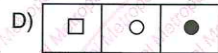
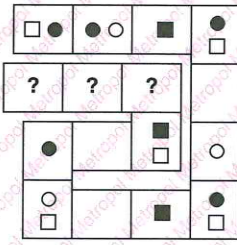
8.



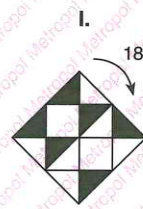
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1	E	3	D	5	A	7	C
2	D	4	D	6	D	8	B

1.

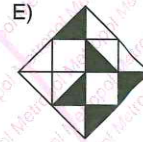
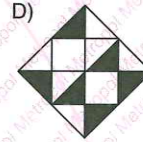
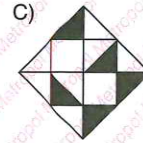
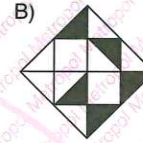
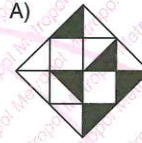


8.



II.

?



2.

I.

II.

III.

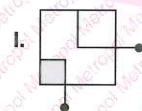
IV.

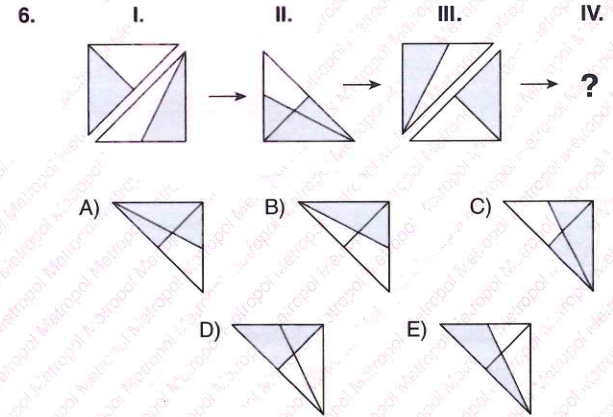
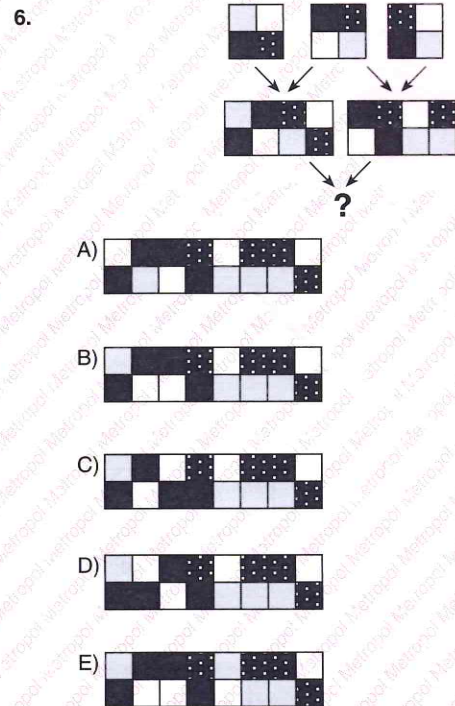
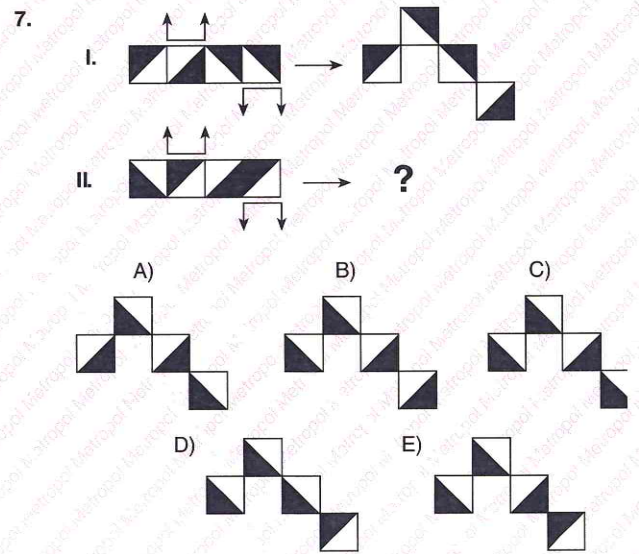
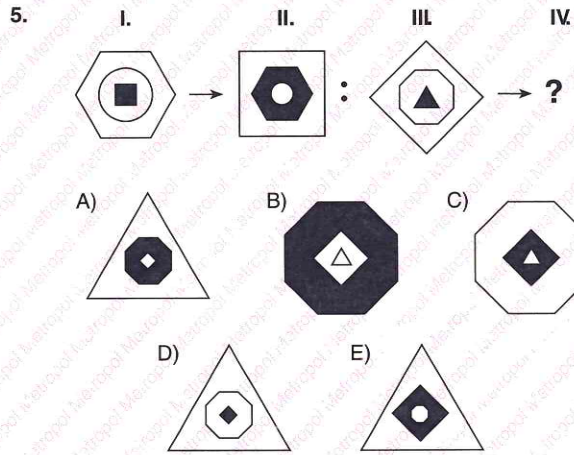


→



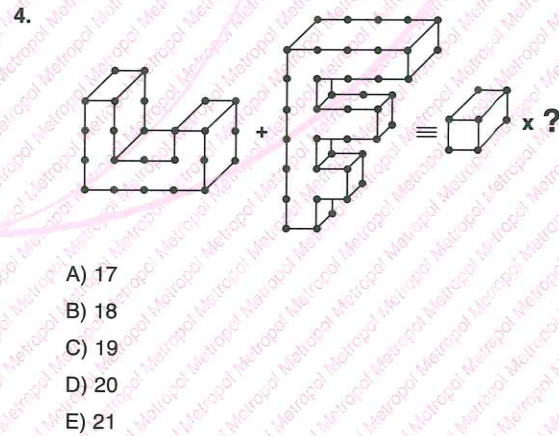
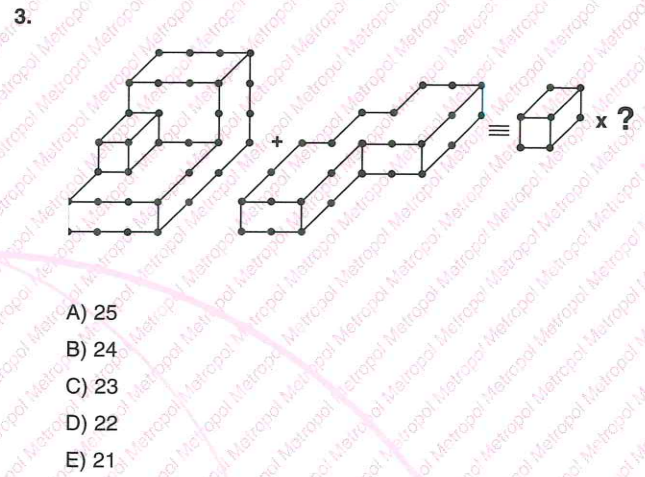
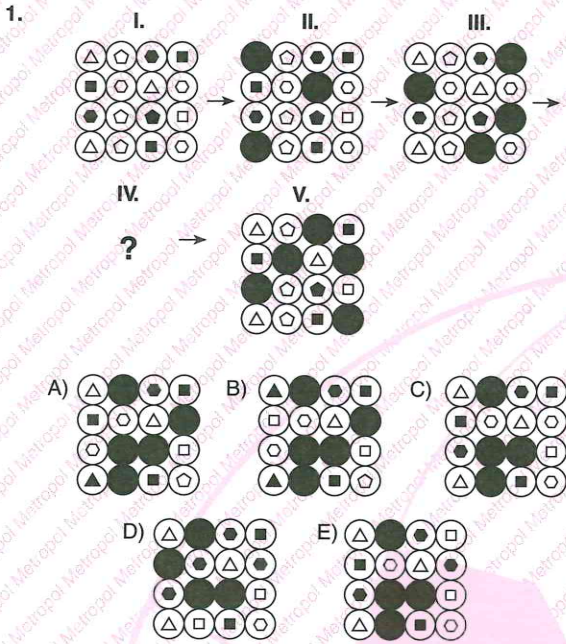
4.



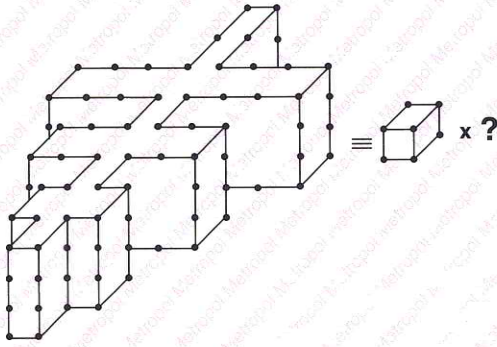


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1	A	3	D	5	E	7	C
2	A	4	D	6	B	8	A

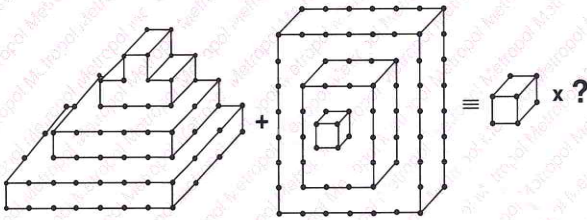


5.



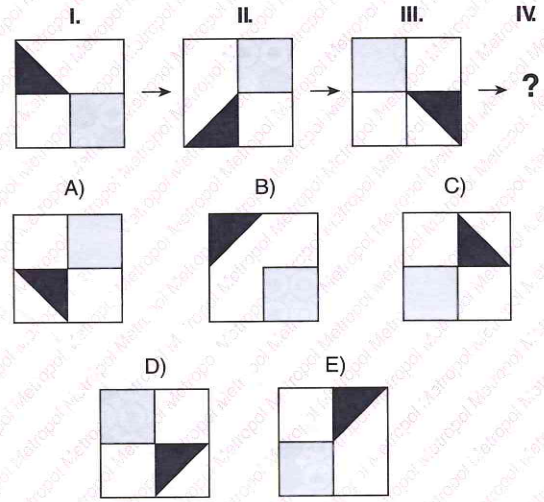
- A) 51
- B) 54
- C) 57
- D) 60
- E) 63

6.

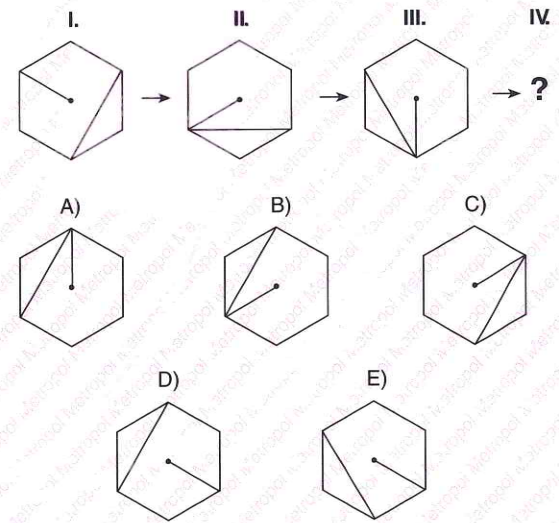


- A) 82
- B) 84
- C) 86
- D) 88
- E) 90

7.



8.



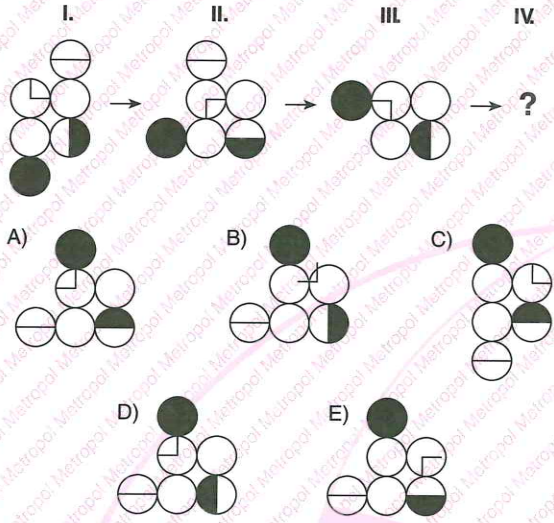
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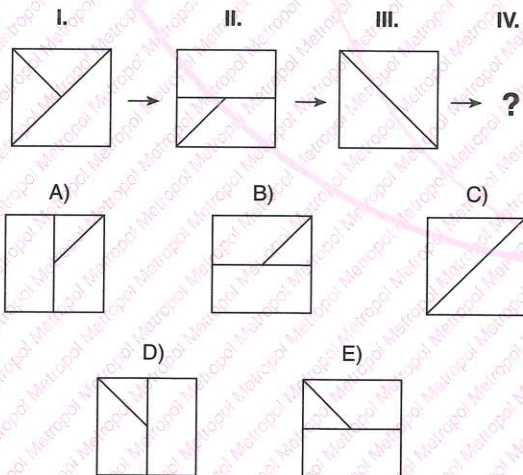
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1	D	3	A	5	D	7	E
2	B	4	C	6	E	8	D

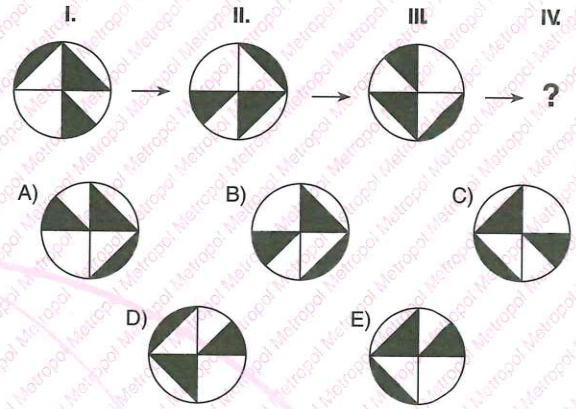
1.



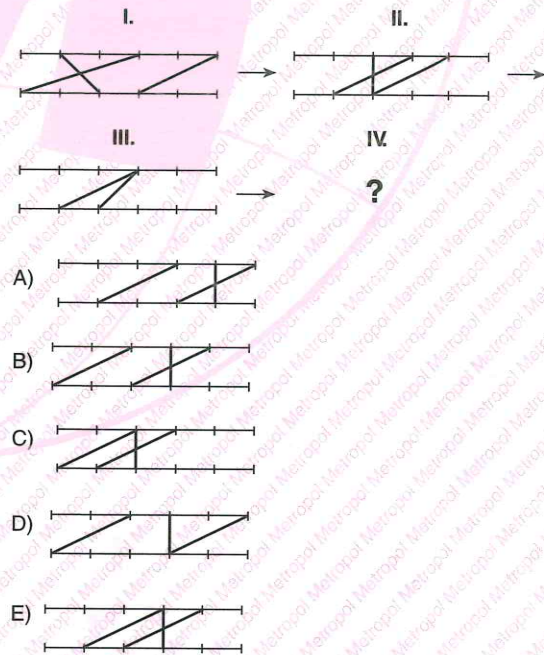
2.



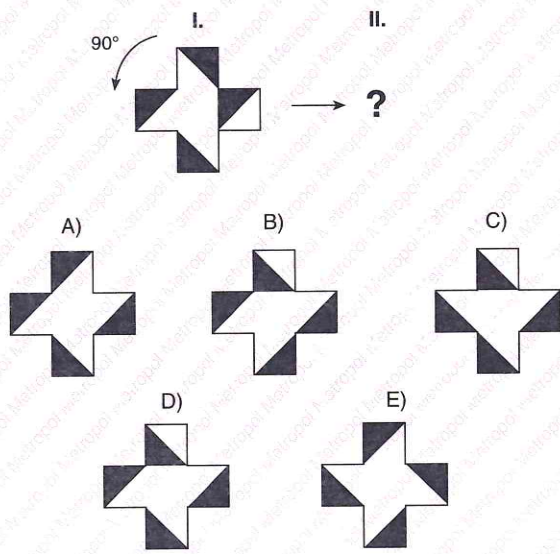
3.



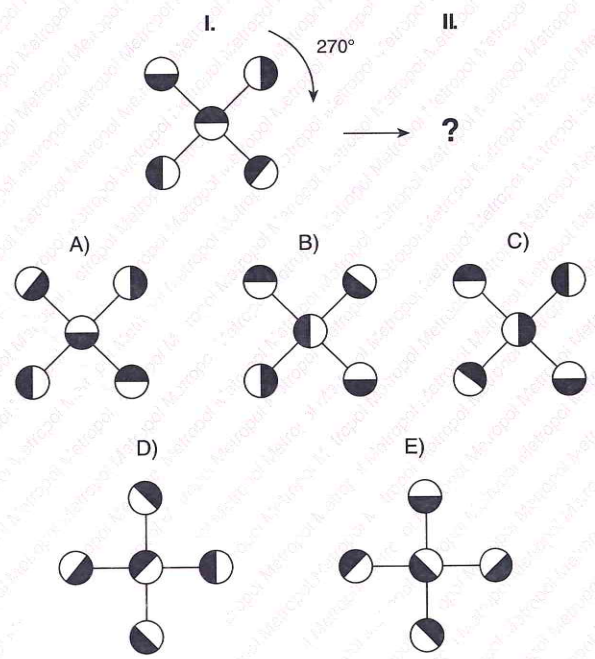
4.



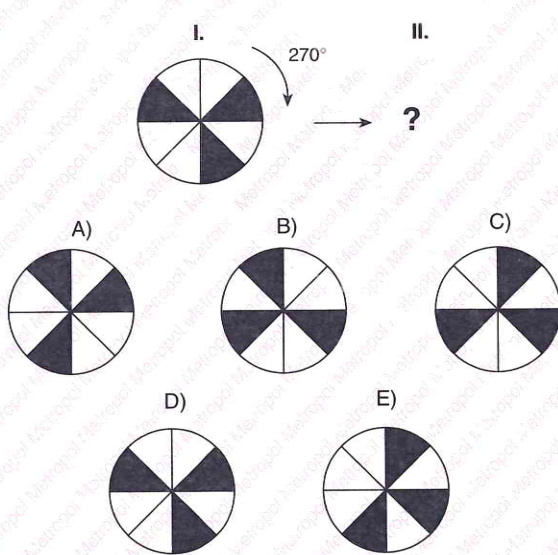
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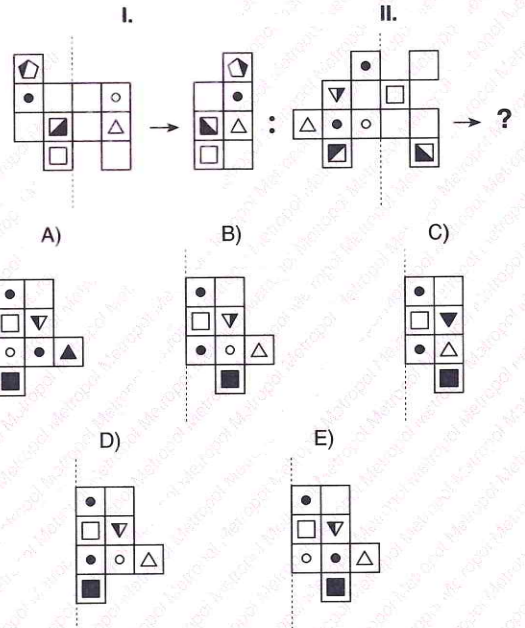
7.



6.



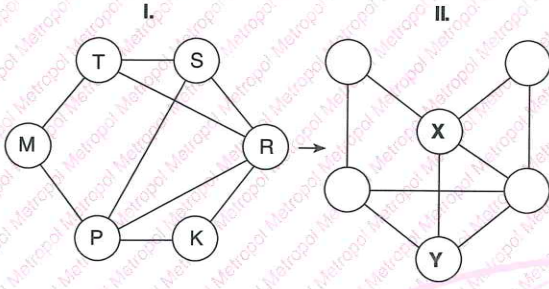
8.



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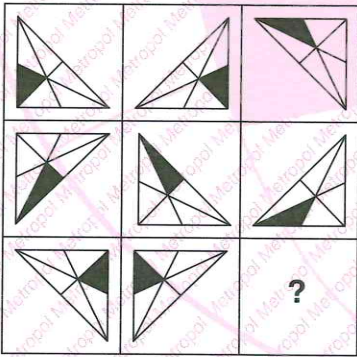
1	A	3	E	5	D	7	B
2	A	4	B	6	A	8	E

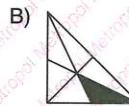
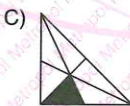
1.

 $\Rightarrow X = ? ; Y = ?$

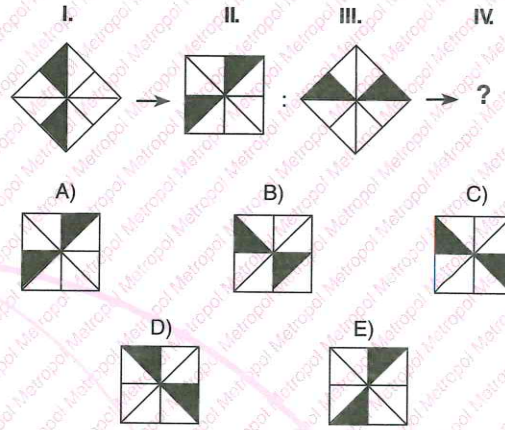
- A) P ; T
B) P ; S
C) R ; T
D) R ; S
E) T ; R

2.

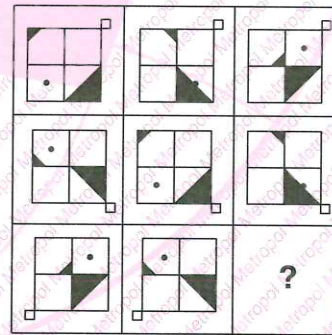


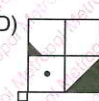
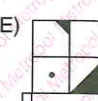
- A)  B)  C) 
D)  E) 

3.

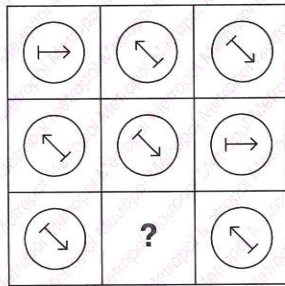


4.



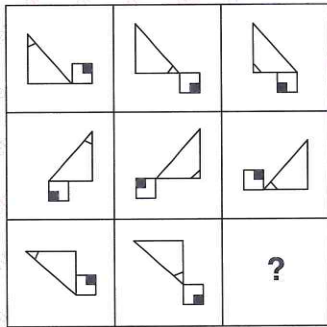
- A)  B)  C) 
D)  E) 

5.



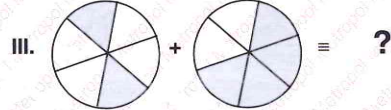
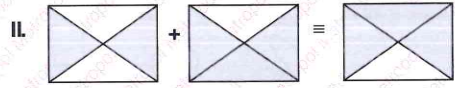
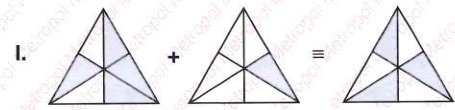
- A) B) C)
D) E)

6.



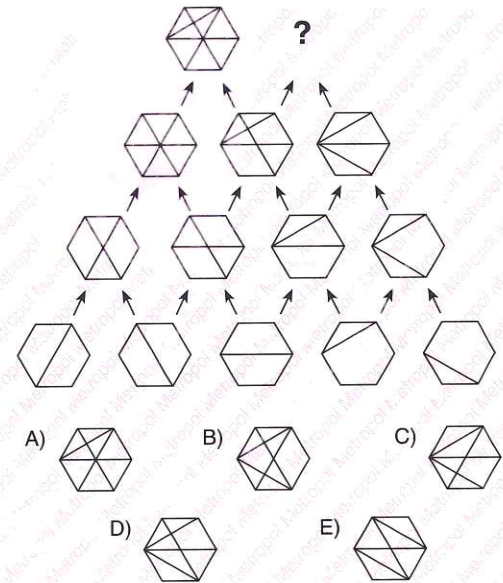
- A) B) C)
D) E)

7.



- A) B) C)
D) E)

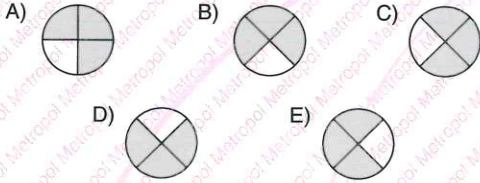
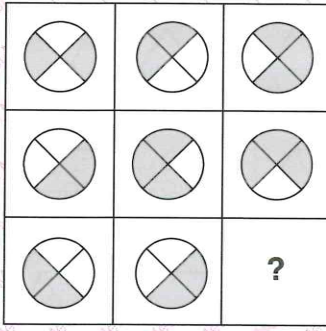
8.



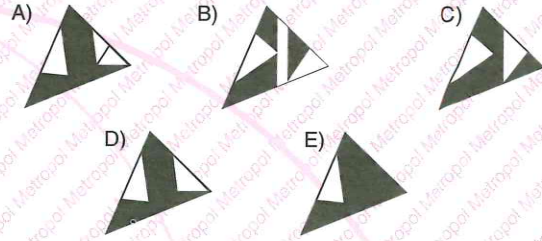
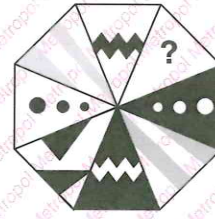
YANITLAR / ANSWERS

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

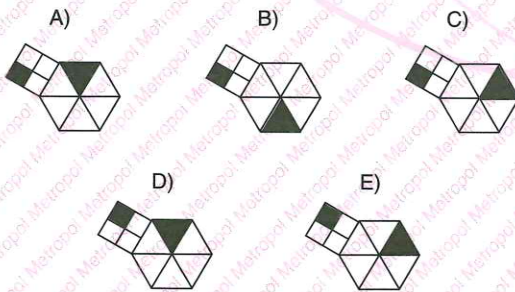
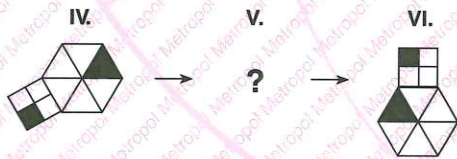
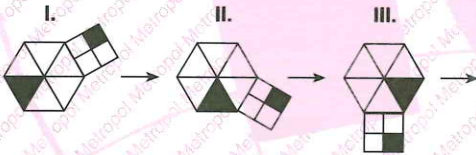
1.



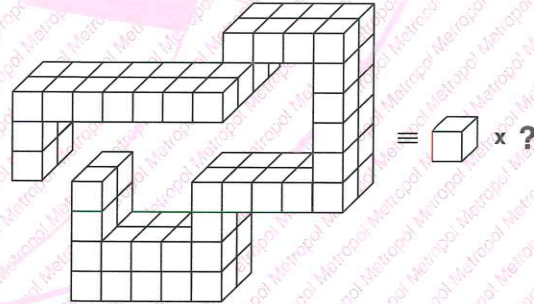
3.



2.

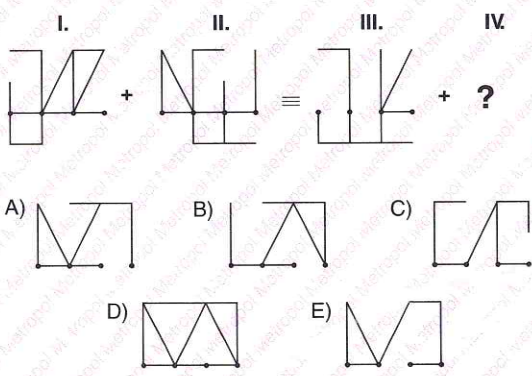


4.

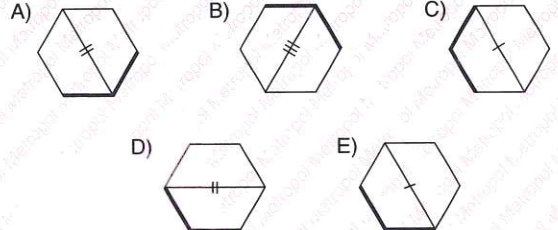
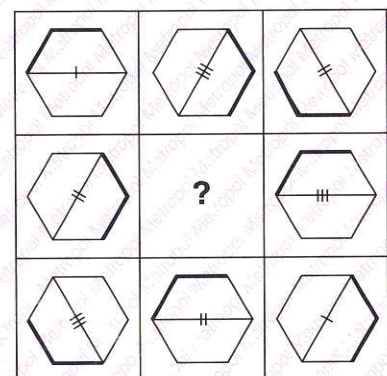


- A) 72
B) 74
C) 76
D) 78
E) 80

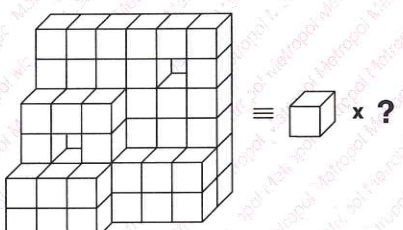
7.



7.

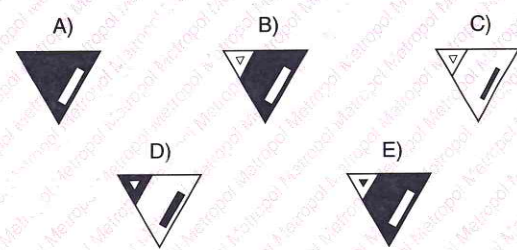
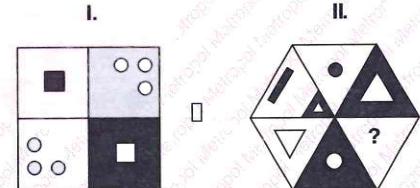


8.



- A) 58
B) 60
C) 62
D) 64
E) 66

8.



YANITLAR / ANSWERS

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

BÖLÜM 3 CHAPTER

SAYI DİZİLERİ NUMBER SERIES

Bölüm / Chapter 1

Tek Satırlı Sayı Dizileri / Single Line Number Series

Test 1

1. 14 18 22 26 ? 34 38
A) 28 B) 30 C) 32 D) 36 E) 40

4. 1 2 5 14 41 ? 365
A) 54 B) 81 C) 108 D) 122 E) 240

2. 2 6 18 ? 162 486
A) 24 B) 30 C) 36 D) 45 E) 54

5. 105 110 120 135 ? 150 165
A) 110
B) 120
C) 140
D) 180
E) 280

3. 17 18 21 26 33 42 ? 66
A) 50 B) 51 C) 52 D) 53 E) 55

6. 1 8 27 64 125 ?
A) 251
B) 185
C) 216
D) 218
E) 318

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7. 18 26 32 34 38 ?

- A) 46 B) 48 C) 50 D) 54 E) 62

10. 12 24 19 38 33 66 ?

- A) 60 B) 61 C) 62 D) 63 E) 64

8. 3 8 23 68 ? 608

- A) 203 B) 205 C) 207 D) 209 E) 211

11. 11 24 50 ? 206

- A) 100
-
- B) 101
-
- C) 102
-
- D) 104
-
- E) 105

12. 11 12 13 22 26 ? 98

- A) 49 B) 50 C) 52 D) 55 E) 62

9. 2 4 12 24 72 144 ?

- A) 128 B) 256 C) 322 D) 396 E) 432

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YANITLAR / ANSWERS

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

1. 30 29 26 21 14 ?

- A) 2
B) 4
C) 5
D) 8
E) 10

4. 1 2 6 16 44 ?

- A) 14
B) 26
C) 48
D) 86
E) 120

2. 24 26 30 36 44 54 ?

- A) 58
B) 60
C) 62
D) 64
E) 66

5. 4 5 9 14 23 ? 60

- A) 30 B) 31 C) 33 D) 35 E) 37

3. 1 4 ? 19 31 46

- A) 10
B) 20
C) 30
D) 40
E) 50

6. 2 3 7 16 32 ? 93

- A) 57 B) 58 C) 59 D) 60 E) 61

7. 4 9 61 52 63 94 ?
 A) 38
 B) 46
 C) 52
 D) 64
 E) 76

8. 5 6 8 12 20 ? 68
 A) 36
 B) 40
 C) 44
 D) 48
 E) 52

9. 10 11 21 13 23 51 34 ?
 A) 15
 B) 26
 C) 39
 D) 55
 E) 72

10. 13 17 25 32 37 ? 58
 A) 45
 B) 47
 C) 49
 D) 51
 E) 53

11. 25 28 34 35 37 ?
 A) 37
 B) 39
 C) 41
 D) 43
 E) 45

12. 5 7 10 15 22 33 46 63 ?
 A) 75
 B) 80
 C) 82
 D) 84
 E) 86



YANITLAR / ANSWERS

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

1. 12 6 8 4 6 ?

- A) 3
B) 4
C) 5
D) 6
E) 7

2. $\sqrt{2}$ 2 4 16 32 ?

- A) 448
B) 728
C) 968
D) 1024
E) 1172

3. 3 4 8 11 44 49 294 ?

- A) 46 B) 151 C) 196 D) 245 E) 301

4. 9 12 18 30 54 ? ?

- A) 102,208
B) 102,198
C) 198,202
D) 150,174
E) 148,164

5. 2 6 12 ? ? 42 56 72

- A) 18, 30 B) 18, 28 C) 24, 28
D) 20, 28 E) 20, 30

6. 64 142 74 134 85 122 97 114 110 102 K L

 $\Rightarrow K + L = ?$

- A) 218 B) 219 C) 220 D) 221 E) 222

7. 2 8 10 40 42 168 170 ?

- A) 80
B) 20
C) 82
D) 328
E) 680

8. 6 12 8 11 22 ? 21 42

- A) 18 B) 20 C) 22 D) 24 E) 26

9. 9 12 18 16 19 25 23 26 ? ?

- A) 32, 30 B) 32, 34 C) 30, 36
D) 24, 30 E) 24, 32

10. 2 1 3 9 8 10 30 ?

- A) 29 B) 21 C) 17 D) 9 E) 2

11. 22 25 18 19 22 15 16 19 ? 13

- A) 16
B) 15
C) 14
D) 13
E) 12

12. 4 12 14 16 48 50 ? 156

- A) 52 B) 64 C) 96 D) 144 E) 154

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YANITLAR / ANSWERS

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

1. 4 7 13 ? 49 97
A) 15 B) 25 C) 37 D) 42 E) 45

4. 6 7 ? 9 2 11 0 13
A) 4
B) 7
C) 13
D) 16
E) 17

2. 2 21 6 20 11 17 17 12 24 ? ?
A) 5, 32 B) 5, 24 C) 6, 18
D) 6, 32 E) 8, 24

5. 11 10 13 8 15 6 ?
A) 5
B) 8
C) 13
D) 15
E) 17

3. 1 3 4 4 10 6 22 10 ? ?
A) 18, 40 B) 46, 18 C) 20, 14
D) 46, 14 E) 40, 18

6. 12 192 15 96 21 32 30 ? 42
A) 24 B) 20 C) 16 D) 12 E) 8

7. 232 241 257 282 ?

A) 340

B) 346

C) 358

D) 364

E) 380

10. 99 36 27 36 45 ?

A) 36

B) 40

C) 48

D) 54

E) 63

8. 14 29 15 37 22 60 38 83 ?

A) 40

B) 41

C) 43

D) 45

E) 47

11. 5 8 4 12 10 28 5 ?

A) 20

B) 22

C) 24

D) 26

E) 28

12. 7 12 4 16 12 1 5 ?

A) 59

B) 52

C) 50

D) 45

E) 40

9. 14 25 49 169 256 ?

A) 121

B) 144

C) 169

D) 196

E) 225

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YANITLAR / ANSWERS

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

Aşağıdaki sorulardaki sayı dizilerinin her biri farklı birer kurala göre dizilmiştir. Bu dizilerin herbirinde kurala uymayan bir sayı vardır. Bu sayıları bulunuz.

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. 5 0 3 12 9 10 40 35 38

- A) 5
- B) 12
- C) 9
- D) 40
- E) 35

2. 21 23 26 30 36 41 48

- A) 41
- B) 30
- C) 36
- D) 26
- E) 23

3. 2 4 7 6 12 15 14 27 31 30

- A) 4
- B) 6
- C) 12
- D) 27
- E) 30

4. 101, 110, 105, 115, 109, 120, 113, 124, 117

- A) 101
- B) 105
- C) 120
- D) 124
- E) 117

5. 5 10 20 40 70 160

- A) 10
- B) 20
- C) 40
- D) 70
- E) 160

6. 9 16 10 19 14 25 21 34 32 46

- A) 16
- B) 19
- C) 32
- D) 21
- E) 14

7. 24 17 25 16 26 15 27 13

- A) 17
B) 25
C) 13
D) 26
E) 27

10. 22 25 20 23 18 20 16 19

- A) 23
B) 20
C) 18
D) 16
E) 19

8. 1 8 16 25 35 46 50

- A) 8 B) 16 C) 25 D) 46 E) 50

11. 2 5 10 17 25

- A) 2
B) 5
C) 10
D) 17
E) 25

9. 1 4 14 22 37 56 79 106

- A) 1
B) 4
C) 14
D) 56
E) 79

12. 20 40 60 120 140 280 320

- A) 40
B) 60
C) 140
D) 280
E) 320

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YANITLAR / ANSWERS

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

1. $\frac{1}{4}, \frac{2}{7}, \frac{3}{10}, \dots, \frac{70}{x}$

$\Rightarrow x = ?$

- A) 207 B) 208 C) 209 D) 210 E) 211

4. $\frac{1}{14}, \frac{2}{20}, \frac{3}{26}, \dots, \frac{x}{152}$

$\Rightarrow x = ?$

- A) 27 B) 26 C) 25 D) 24 E) 28

2. $\frac{1}{5}, \frac{2}{12}, \frac{3}{19}, \frac{4}{26}, \dots, \frac{40}{x}, \dots, \frac{45}{y}$

$\Rightarrow x + y = ?$

- A) 590 B) 591 C) 592 D) 593 E) 594

5. $\frac{1}{4}, \frac{2}{5}, \frac{3}{7}, \frac{4}{10}, \frac{5}{14}, \dots, \frac{25}{x}$

$\Rightarrow x = ?$

- A) 300 B) 302 C) 304 D) 306 E) 308

3. $\frac{1}{x}, \frac{2}{y}, \frac{3}{z}, \frac{4}{t}, \dots, \frac{12}{40}, \dots, \frac{20}{64}$

$\Rightarrow y + t = ?$

- A) 20 B) 22 C) 24 D) 26 E) 28

6. $\frac{1}{3}, \frac{2}{10}, \frac{3}{24}, \frac{4}{45}, \frac{5}{73}, \dots, \frac{11}{x}$

$\Rightarrow x = ?$

- A) 388 B) 389 C) 390 D) 391 E) 392

7. $\frac{1}{1} \quad \frac{2}{4} \quad \frac{3}{10} \quad \frac{4}{19} \quad \frac{5}{31} \quad \dots \quad \frac{20}{x}$

$\Rightarrow x = ?$

- A) 571 B) 572 C) 573 D) 574 E) 575

8. $\frac{1}{140} \quad \frac{2}{137} \quad \frac{3}{134} \quad \frac{4}{131} \quad \dots \quad \frac{20}{x}$

$\Rightarrow x = ?$

- A) 80 B) 83 C) 86 D) 89 E) 92

9. $\frac{1}{154} \quad \frac{2}{150} \quad \frac{3}{146} \quad \frac{4}{142} \quad \dots \quad \frac{x}{38}$

$\Rightarrow x = ?$

- A) 28 B) 29 C) 30 D) 31 E) 32

10. $\frac{1}{4} \quad \frac{2}{8} \quad \frac{3}{16} \quad \frac{4}{32} \quad \dots \quad \frac{8}{x}$

$\Rightarrow x = ?$

- A) 128 B) 256 C) 512 D) 1024 E) 2048

11. $\frac{1}{64} \quad \frac{2}{16} \quad \frac{3}{4} \quad \dots \quad \frac{10}{x}$

$\Rightarrow x = ?$

- A) $\frac{1}{2^8}$ B) $\frac{1}{2^9}$ C) $\frac{1}{2^{10}}$ D) $\frac{1}{2^{11}}$ E) $\frac{1}{2^{12}}$

12. $\frac{1}{2\sqrt{3}} \quad \frac{2}{6} \quad \frac{3}{6\sqrt{3}} \quad \frac{4}{18} \quad \dots \quad \frac{x}{486}$

$\Rightarrow x = ?$

- A) 4 B) 6 C) 8 D) 10 E) 12



YANITLAR / ANSWERS

1	E	3	D	5	C	7	A	9	C	11	E
2	B	4	D	6	A	8	B	10	C	12	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	8	7	12	10	14	11
	II.	14	8	9	4	6	2	5
	III.	2	10	8	14	10	14	8
	IV.	?	?	?	?	?	?	?
	A)	14	6	8	2	6	2	8
	B)	14	22	20	26	22	26	20
	C)	124	20	19	24	22	26	23
	D)	14	12	20	16	22	16	20
	E)	14	15	9	11	6	9	5

2.	I.	28	33	30	35	32	37
	II.	42	37	40	35	38	33
	III.	4	10	8	14	12	18
	IV.	?	?	?	?	?	?
	A)	12	14	13	15	14	16
	B)	18	22	20	24	22	26
	C)	24	32	26	34	28	36
	D)	40	45	43	48	46	51
	E)	56	50	52	46	48	42

3.	I.	30	35	33	38	36	41
	II.	30	25	27	22	24	19
	III.	30	37	34	41	38	45
	IV.	?	?	?	?	?	?
	A)	30	33	36	29	32	25
	B)	30	33	26	29	22	25
	C)	30	23	16	19	21	24
	D)	30	27	34	31	38	35
	E)	30	23	26	19	22	15

4.	I.	2	6	9	27	30	90	93
	II.	2	8	12	48	52	208	212
	III.	4	8	6	12	10	20	18
	IV.	?	?	?	?	?	?	?
	A)	4	12	15	45	48	144	147
	B)	4	2	4	2	4	2	4
	C)	4	1	3	0	0	-3	-9
	D)	4	16	20	80	76	304	308
	E)	4	12	9	27	24	72	69

5.	I.	5	3	9	7	21	19
	II.	5	15	13	39	37	111
	III.	5	10	17	34	41	82
	IV.	?	?	?	?	?	?
	A)	5	35	37	259	261	268
	B)	5	7	49	51	357	359
	C)	5	12	24	31	62	69
	D)	5	10	20	27	34	68
	E)	5	7	9	63	441	443

6.	I.	36	33	30	27	24	21
	II.	5	8	11	14	17	20
	III.	47	42	37	32	27	22
	IV.	?	?	?	?	?	?
	A)	18	23	28	33	38	43
	B)	13	16	19	22	25	28
	C)	21	18	15	12	9	6
	D)	4	9	6	11	8	13
	E)	20	15	18	13	16	11

7. I. 12 13 15 18 22 27
 II. 42 41 39 36 32 27
 III. 16 20 28 40 56 76
 IV. ? ? ? ? ? ?
 A) 92 88 80 68 52 32
 B) 58 55 49 40 28 13
 C) 5 7 11 17 25 35
 D) 42 39 40 37 38 35
 E) 2 6 12 36 72 216

8. I. 2 3 9 10 30 31
 II. 2 6 7 21 22 66
 III. 2 10 12 60 62 310
 IV. ? ? ? ? ? ?
 A) 2 4 20 22 110 112
 B) 2 7 14 19 38 43
 C) 2 4 6 30 150 152
 D) 2 10 50 52 54 270
 E) 2 7 12 24 48 96

9. I. 2 3 5 8 12 17 23
 II. 40 39 37 34 30 25 19
 III. 3 5 9 15 23 33 45
 IV. ? ? ? ? ? ? ?
 A) 60 58 56 52 50 48 44
 B) 60 59 48 57 56 55 54
 C) 60 58 54 48 40 30 18
 D) 60 59 57 54 40 45 39
 E) 60 57 51 42 30 16 0

10. I. 171 57 54 18 15 5 2
 II. 12 6 8 4 6 3 5
 III. 3 12 16 64 68 272 276
 IV. ? ? ? ? ? ? ?
 A) 3 12 8 28 112 108 100
 B) 3 9 6 18 15 45 42
 C) 3 7 11 15 19 23 27
 D) 3 9 12 36 39 117 120
 E) 3 12 6 24 12 48 24

11. I. 19 15 15 11 11 7 7
 II. 8 4 8 4 8 4 8
 III. 7 3 9 5 15 11 33
 IV. ? ? ? ? ? ? ?
 A) 5 1 5 1 5 1 5
 B) 9 5 15 11 33 29 87
 C) 7 3 6 2 4 0 0
 D) 6 2 8 4 16 12 48
 E) 10 6 18 15 42 38 114

12. I. 3 5 9 15 23 33
 II. 52 50 46 40 32 22
 III. 32 35 41 50 62 77
 IV. ? ? ? ? ? ? ?
 A) 18 20 24 30 38 48
 B) 18 21 27 36 48 63
 C) 51 48 42 33 21 6
 D) 6 8 24 26 78 80
 E) 12 17 15 20 18 23



YANITLAR / ANSWERS

1	A	3	E	5	C	7	A	9	C	11	D
2	E	4	E	6	A	8	A	10	B	12	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.	2	4	20	160
	II.	3	9	54	486
	III.	4	16	112	1120
	IV.	?	?	?	?
	A)	5	20	100	1000
	B)	5	25	160	1760
	C)	5	25	200	2200
	D)	5	30	240	3000
	E)	5	15	105	1050

2.	I.	5	2	6	9
	II.	7	2	10	15
	III.	9	2	14	21
	IV.	?	?	?	?
	A)	11	2	18	29
	B)	11	2	16	27
	C)	11	2	22	31
	D)	11	2	22	33
	E)	11	2	18	27

3.	I.	4	-1	-5	0
	II.	4	11	77	70
	III.	4	-5	-45	-36
	IV.	?	?	?	?
	A)	4	15	165	154
	B)	4	15	165	176
	C)	4	-7	-77	66
	D)	4	7	77	87
	E)	4	13	117	108

4.	I.	4	8	10	20	22
	II.	2	10	15	75	80
	III.	5	15	12	36	33
	IV.	?	?	?	?	?
	A)	2	12	6	36	42
	B)	2	10	5	25	20
	C)	3	18	24	144	150
	D)	3	18	12	72	66
	E)	2	8	4	16	28

5.	I.	6	2	5	1	6
	II.	129	43	40	8	3
	III.	10	2	7	1	8
	IV.	?	?	?	?	?
	A)	-18	-2	-11	-1	10
	B)	225	45	40	8	3
	C)	340	68	63	9	2
	D)	65	13	7	1	8
	E)	270	54	48	8	2

6.	I.	24	21	16	9
	II.	4	11	16	19
	III.	30	25	18	9
	IV.	?	?	?	?
	A)	5	15	23	29
	B)	5	10	17	26
	C)	8	17	24	28
	D)	5	-4	-11	-16
	E)	5	14	21	26

7. I. -4 -8 -5 -15 -10
 II. -3 -9 -5 -20 -14
 III. -5 -20 -15 -75 -68
 IV. ? ? ? ? ?
 A) -4 -16 -20 -100 -105
 B) -4 -20 -14 -98 -90
 C) -6 -30 -36 -252 -260
 D) -4 -20 -26 -182 -174
 E) -3 -15 -9 -54 -46

8. I. 4 8 24 96
 II. 6 24 120 720
 III. 5 15 60 300
 IV. ? ? 210 1470
 A) 7, 42
 B) 7, 105
 C) 7, 35
 D) 7, 28
 E) 7, 39

9. I. 5 8 24 21
 II. 5 10 50 45
 III. 5 12 84 77
 IV. 5 ? ? 117
 A) 12, 121
 B) 7, 126
 C) 7, 116
 D) 14, 126
 E) 16, 112

10. I. 2 4 8 32
 II. 5 10 50 500
 III. 4 8 32 256
 IV. 7 14 ? ?
 A) 70, 560
 B) 74, 888
 C) 112, 1792
 D) 98, 1372
 E) 60, 1200

11. I. 6 9 18 21 42 45
 II. 77 74 37 34 17 14
 III. 2 4 12 14 42 44
 IV. ? ? ? ? ? ?
 A) 5 10 12 24 26 52
 B) 80 78 26 24 8 6
 C) 45 42 21 18 9 6
 D) 4 12 14 42 44 132
 E) 80 78 75 73 70 68

12. I. 4 5 15 16 48 49
 II. 4 12 13 39 40 120
 III. 4 2 10 8 40 38
 IV. ? ? ? ? ? ?
 A) 4 20 18 90 88 440
 B) 4 6 30 32 160 162
 C) 4 8 13 26 31 62
 D) 4 9 18 23 46 51
 E) 4 12 15 42 44 162



YANITLAR / ANSWERS

1	C	3	A	5	C	7	E	9	D	11	B
2	E	4	D	6	E	8	C	10	D	12	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. 279 93 90 30 27 9
 II. 848 212 208 52 48 12
 III. 4 12 15 45 48 144
 IV. ? ? ? ? ? ?
 A) 6 12 14 28 30 60
 B) 2 10 15 75 80 400
 C) 36 18 20 10 12 6
 D) 5 20 10 40 20 80
 E) 3 12 16 64 68 272

2. I. 3 6 7 14 15 30
 II. 5 10 9 18 17 34
 III. 2 4 6 12 14 28
 IV. ? ? ? ? ? ?
 A) 11 22 20 40 38 76
 B) 5 10 12 24 26 52
 C) 40 38 34 28 20 10
 D) 2 4 8 16 32 64
 E) 4 8 9 18 38 19

3. I. 3 12 6 24 12 48
 II. 6 10 8 12 10 14
 III. 128 256 64 128 32 64
 IV. ? ? ? ? ? ?
 A) 10 20 30 60 70 140
 B) 2 6 12 36 72 216
 C) 5 10 30 60 180 360
 D) 40 42 38 40 36 38
 E) 18 21 19 22 20 23

4. I. 2 6 7 21 22 66
 II. 4 12 11 33 32 96
 III. 6 12 14 28 30 60
 IV. ? ? ? ? ? ?
 A) 3 6 12 24 48 96
 B) 3 6 9 12 15 18
 C) 4 12 14 42 44 132
 D) 8 16 18 36 38 76
 E) 4 8 6 12 10 20

5. I. 6 4 12 10 30 28
 II. 6 18 16 48 46 138
 III. 6 12 19 38 45 90
 IV. ? ? ? ? ? ?
 A) 6 42 44 308 310 1270
 B) 6 12 24 31 62 124
 C) 6 13 26 33 66 73
 D) 6 8 56 48 406 408
 E) 6 8 10 70 72 74

6. I. 2 4 8 16
 II. 6 12 24 48
 III. 3 9 27 81
 IV. ? ? ? ?
 A) 5 10 20 40
 B) 4 12 36 108
 C) 7 14 28 46
 D) 5 7 9 11
 E) 7 21 36 52

7. I. 2 3 4 5 6
 II. 7 10 13 16 19
 III. 95 90 85 80 75
 IV. ? ? ? ? ?
 A) 7 12 22 27 37
 B) 90 97 104 111 118
 C) 90 95 100 105 110
 D) 87 80 73 66 59
 E) 5 12 19 26 33

8. I. 0 10 2 8 4
 II. 20 24 18 26 16
 III. 100 120 102 118 104
 IV. ? ? ? ? ?
 A) 120 134 118 136 116
 B) 120 106 122 104 124
 C) 120 140 122 138 124
 D) 120 100 118 102 116
 E) 120 90 80 70 60

9. I. 2 4 8 16 32
 II. 2 6 14 30 62
 III. 7 18 40 84 172
 IV. ? ? ? ? ?
 A) 1 5 13 29 61
 B) 7 13 25 49 97
 C) 7 11 19 35 67
 D) 3 6 12 24 48
 E) 1 8 22 50 106

10. I. 38 34 40 36 42
 II. 20 24 18 22 16
 III. 39 32 34 27 29
 IV. ? ? ? ? ?
 A) 18 25 23 30 28
 B) 40 37 38 31 27
 C) 10 17 15 21 19
 D) 27 34 32 39 38
 E) 41 43 40 42 39

11. I. 27 24 25 22 23
 II. 30 33 32 35 34
 III. 35 40 38 43 41
 IV. ? ? ? ? ?
 A) 20 22 27 25 30
 B) 58 53 51 46 48
 C) 29 24 26 24 26
 D) 48 53 51 56 54
 E) 48 43 45 40 42

12. I. 2 9 8 15 14 21 20
 II. 35 28 29 22 23 16 17
 III. 20 16 18 14 16 12 14
 IV. ? ? ? ? ? ? ?
 A) 18 14 21 20 15 8 5
 B) 12 14 11 13 7 12 8
 C) 28 16 18 14 16 12 14
 D) 35 12 13 24 11 12 15
 E) 10 14 12 16 14 18 16



YANITLAR / ANSWERS

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

1.

Aşağıdaki sayı dizilerinden hangisi diğerlerinden farklı bir kurala sahiptir?

Which of the following number series have a different rule?

- A) 3 5 11 29 84
 B) 6 9 15 27 51
 C) 2 3 7 23 87
 D) 3 10 31 94 283
 E) 2 4 14 64 314

2. A) 4 7 16 43 124
 B) 2 5 17 65 257
 C) 14 23 41 77 149
 D) 9 30 93 282 849
 E) 2 8 38 188 938

3. A) 4 5 7 10 14 19 25
 B) 7 10 16 25 37 52 70
 C) 2 6 14 26 42 62 86
 D) 7 12 17 22 27 32 37
 E) 3 9 21 39 63 93 129

4.

- A) 13 17 25 32 37 47
 B) 20 22 26 34 41 46
 C) 32 37 47 58 71 79
 D) 27 36 45 54 63 72
 E) 40 44 52 64 74 85

5.

- A) 4 5 9 14 23 37 60
 B) 12 14 26 40 66 106 172
 C) 15 21 36 57 83 140 223
 D) 8 10 18 28 46 74 120
 E) 5 12 17 29 46 75 121

6.

- A) 16 22 24 28 36 42
 B) 43 46 52 54 58 66
 C) 27 34 38 46 52 54
 D) 14 18 26 32 34 38
 E) 42 46 50 55 60 66

7. A) 10 20 21 31 50 33
 B) 43 62 18 55 84 229
 C) 32 42 16 35 81 55
 D) 441 550 470 381 175 644
 E) 22 41 24 34 17 27

8. A) 5 11 29 83 245
 B) 7 17 47 137 407
 C) 4 8 20 56 164
 D) 6 14 38 110 326
 E) 3 5 11 29 84

9. A) 12 10 20 18 36
 B) 15 13 26 24 48
 C) 7 5 10 8 16
 D) 18 16 32 30 60
 E) 13 26 24 48 46

10. A) 10 15 75 80 400
 B) 13 15 30 32 64
 C) 8 11 33 36 108
 D) 10 40 44 176 180
 E) 6 12 72 78 468

11. A) 56 46 27 17
 B) 43 44 72 55
 C) 80 72 64 56
 D) 24 34 62 90
 E) 12 40 32 51

12. A) 7 11 13 17
 B) 51 53 59 61
 C) 29 31 37 41
 D) 2 3 5 7
 E) 23 29 31 37

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YANITLAR / ANSWERS

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

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. 2 9 6 13 10
 II. 4 11 8 15 12
 III. 8 15 18 25 28
 IV. 5 12 15 22 25
 V. 12 19 16 23 20
 A) I, II, III B) II, III, V C) I, III, V
 D) I, II, V E) III, IV, V

2. I. 5 10 16 13
 II. 2 4 11 8
 III. 4 8 15 12
 IV. 3 6 13 16
 V. 6 12 19 16
 A) I, II, III B) II, III, V C) I, IV, V
 D) I, III, V E) II, IV, V

3. I. 6 18 15 60 64
 II. 2 6 3 12 16
 III. 3 9 6 24 20
 IV. 5 15 12 48 52
 V. 4 12 15 60 56
 A) I, II, IV B) I, IV, V C) II, III, IV
 D) I, II, V E) I, II, III

4. I. 5 3 6 24 19
 II. 17 15 5 25 20
 III. 8 6 2 8 3
 IV. 14 12 4 16 11
 V. 11 9 3 12 7
 A) I, II, III B) II, III, IV C) III, IV, V
 D) I, IV, V E) II, III, V

5. I. 5 7 4 8
 II. 5 2 9 18
 III. 5 9 3 12
 IV. 5 11 2 14
 V. 5 1 8 11
 A) I, II, III B) I, III, IV C) II, III, IV
 D) I, III, V E) II, III, V

6. I. 7 14 42 168
 II. 6 12 24 48
 III. 5 10 30 120
 IV. 4 8 16 32
 V. 2 4 12 48
 A) I, II, III B) I, III, IV C) I, III, V
 D) III, IV, V E) I, IV, V

7. I. 34 44 63 82
II. 23 42 70 71
III. 97 78 59 57
IV. 56 57 85 86
V. 24 34 45 55

A) I, II, IV B) I, III, IV C) I, III, V
D) III, IV, V E) I, IV, V

8. I. 4 7 11 17
II. 9 5 14 19
III. 12 11 23 34
IV. 7 6 13 20
V. 5 9 14 19

A) I, III, V B) II, III, IV C) I, II, V
D) III, IV, V E) I, II, IV

9. I. 4 9 29 59
II. 12 25 51 103
III. 7 15 30 61
IV. 5 11 23 47
V. 3 7 15 31

A) I, II, III B) II, III, V C) I, IV, V
D) III, V, IV E) II, IV, V

10. I. 7 10 9 22
II. 5 8 7 20
III. 11 14 13 26
IV. 8 11 10 22
V. 12 15 14 30

A) I, II, III B) I, II, IV C) I, III, V
D) II, III, IV E) III, IV, V

11. I. 5 12 24 31
II. 9 16 32 39
III. 4 8 15 30
IV. 8 15 30 37
V. 6 12 19 38

A) I, II, III B) II, III, IV C) I, II, IV
D) II, IV, V E) I, III, V

12. I. 13 15 17 19
II. 13 17 19 23
III. 6 7 8 9
IV. 29 31 37 41
V. 2 3 5 7

A) I, II, III B) II, III, IV C) I, II, IV
D) II, IV, V E) I, III, V

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YANITLAR / ANSWERS

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

1. 60 30 32 16 18 9 ?

- A) 3
B) 7
C) 11
D) 15
E) 19

4. 2 5 3 8 4 11 5 ? ?

- A) 6,22
B) 14,22
C) 14,6
D) 15,21
E) 11,5

2. 3 15 10 2 7 35 30 ?

- A) 8
B) 9
C) 12
D) 33
E) 6

5. 18 20 16 32 8 10 6 12 3 ?

- A) 3
B) 4
C) 5
D) 6
E) 7

3. 26 28 7 9 3 ?

- A) 1
B) 2
C) 3
D) 4
E) 5

6. 40 200 20 100 10 50 5 ?

- A) 15
B) 12
C) 25
D) 16
E) 40

7. 2 5 0 7 2 13 ?

- A) 1
B) 2
C) 4
D) 6
E) 8

8. I. 2 4 20 160
II. 3 9 54 486
III. 4 16 112 1120
IV. ? ? ? ?

- A) 5 20 100 1000
B) 5 25 160 1760
C) 5 25 200 2200
D) 5 30 240 3000
E) 5 15 15 1050

9. I. 12 15 13 16 14 17
II. 4 12 6 18 9 27
III. 12 14 11 13 10 12
IV. ? ? ? ? ? ?

- A) 45 90 30 60 20 40
B) 12 36 18 54 27 81
C) 15 18 16 19 17 20
D) 2 8 4 16 8 32
E) 4 8 10 20 22 44

10. I. 48 54 60 66 72 78
II. 32 26 20 14 8 2
III. 88 80 72 64 56 48
IV. ? ? ? ? ? ?

- A) 36 40 44 48 52 36
B) 16 24 32 40 48 56
C) 60 52 44 36 28 20
D) 6 12 18 24 30 36
E) 42 38 34 30 26 22

11. I. 80 70 74 82
II. 80 72 78 88
III. 80 74 82 94
IV. 80 76 ? ?

- A) 86 ; 88
B) 86 ; 98
C) 86 ; 100
D) 88 ; 98
E) 88 ; 100

12. I. 5 14 126 117
II. 5 12 84 77
III. 5 10 50 45
IV. 5 ? ? 21

- A) 9, 27 B) 9, 36 C) 6, 14
D) 8, 24 E) 5, 15



YANITLAR / ANSWERS

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

1. 127 120 121 112 115 ? 109 96 103

- A) 111
B) 125
C) 115
D) 104
E) 108

4. 3 8 23 68 ?

- A) 170
B) 186
C) 194
D) 203
E) 212

2. 117 110 101 90 97 106 117 110 ?

- A) 101
B) 100
C) 80
D) 67
E) 20

5. 4 3 9 8 24 23 69 ?

- A) 65
B) 66
C) 67
D) 68
E) 69

3. 3 7 2 9 13 8 15 19 (?) (?)

- A) 15, 20
B) 14, 21
C) 16, 21
D) 17, 22
E) 16, 19

6. 4 5 7 10 11 13 16 17 19 22 ?

- A) 23
B) 24
C) 25
D) 26
E) 27

7. 5 12 26 54 110 ?

- A) 227
B) 221
C) 223
D) 333
E) 222

8. ? 3 6 18 72 360

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

9. I. 4 20 360 380
II. 4 16 224 240
III. 4 12 120 132
IV. 4 ? ? ?

- A) 6, 24, 30 B) 6, 16, 24 C) 6, 20, 36
D) 8, 48, 56 E) 4, 20, 38

10. I. 8 4 1 4 9
II. 60 10 3 24 33
III. 150 15 4 48 61
IV. ? ? ? 32 49

- A) 238, 17, 2 B) 224, 16, 1 C) 196, 14, 2
D) 257, 18, 3 E) 210, 15, 0

11. I. 24 21 16 9
II. 4 11 16 19
III. 30 25 18 9
IV. ? ? ? ?

- A) 5 15 23 29
B) 5 10 17 26
C) 8 17 24 28
D) 5 -4 -11 -16
E) 5 14 21 26

12. I. 3 9 5 15 11
II. 5 2 8 5 20
III. 4 16 11 44 39
IV. ? ? ? ? ?

- A) 6 24 19 76 71
B) 6 10 50 54 270
C) 6 1 4 -1 -4
D) 6 2 10 6 30
E) 6 11 44 49 245



YANITLAR / ANSWERS

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

1 - 6. sorulardaki sayı dizileri farklı birer kurala göre dizilmiştir. Bu dizilerin herbirinde kurala uymayan bir sayı vardır. Bu sayıyı bulunuz.

In questions 1 - 6, every number series are ordered according to a different rule. But in each number series there is a number which writing wrong. Find the wrong number in each number series.

1. 21 53 30 62 72 71 87
A) 87 B) 71 C) 72 D) 62 E) 30

2. 268 134 132 62 64 32 30 15
A) 134 B) 132 C) 62 D) 64 E) 32

3. 3 4 7 11 18 29 45
A) 7 B) 11 C) 18 D) 29 E) 45

4. 1 2 5 14 41 120
A) 1 B) 5 C) 14 D) 41 E) 120

5. 2 4 8 16 32 64 120 256
A) 8 B) 16 C) 32 D) 64 E) 120

6. 2 3 6 7 14 15 30 29 62
A) 3 B) 7 C) 15 D) 29 E) 62

7. 1 2 3 6 12 24 ?

- A) 48
B) 96
C) 108
D) 124
E) 138

8. 32 37 47 58 71 ? 95

- A) 75
B) 76
C) 77
D) 78
E) 79

9. 5 11 6 13 9 17 14 ?

- A) 17
B) 20
C) 23
D) 27
E) 38

10. 111 122 101 132 91 142 81 ?

- A) 152
B) 103
C) 90
D) 91
E) 80

11. $\frac{10}{7}$ $\frac{20}{13}$ $\frac{30}{19}$... $\frac{50}{K}$... $\frac{720}{M}$

$$\Rightarrow K + M = ?$$

- A) 348 B) 463 C) 616 D) 724 E) 734

12. $\frac{10}{12}$ $\frac{20}{7}$ $\frac{30}{2}$ $\frac{40}{-3}$... $\frac{M}{-48}$... $\frac{K}{-63}$

$$\Rightarrow K - M = ?$$

- A) 10 B) 20 C) 30 D) 40 E) 50



YANITLAR / ANSWERS

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

1. 41 17 38 14 35 ?
A) 5 B) 7 C) 9 D) 11 E) 13

4. 3 6 9 21 51 ?
A) 18 B) 24 C) 48 D) 72 E) 81

2. 1 $\sqrt[3]{2}$ 27 $\sqrt[3]{4}$ 125 ?
A) $\sqrt[4]{6}$ B) $\sqrt[3]{6}$ C) $\sqrt{6}$ D) $\sqrt[3]{5}$ E) $\sqrt[3]{4}$

5. 7 41 12 82 53 ?
A) 16 B) 20 C) 24 D) 36 E) 42

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3. 12 45 36 15 108 ?
A) 5 B) 8 C) 12 D) 15 E) 21

6. A) 10 30 26 78 74
B) 7 28 23 92 87
C) 11 22 25 50 53
D) 13 26 23 46 43
E) 6 30 24 120 114

Aşağıdaki sayı dizilerinden hangisi diğerlerinden farklı bir özellik taşır?

Which of the following number series are different from the others in one way?

7. A) 3 6 4 8 6
B) 7 14 12 24 22
C) 11 22 20 40 38
D) 14 28 26 48 46
E) 13 26 24 48 46

8, 9 ve 10. sorularda verilen sayı dizilerinin üç tanesi aynı veya benzer kurala göre düzenlenmiştir. Bunlar hangileridir?

In questions 8, 9 and 10, three of the given number series are ordered according to the same or similar rule. Find these number series.

8. I. 12 17 13 18 14 19
II. 14 2 13 19 12 18
III. 7 14 8 15 9 16
IV. 17 21 16 20 15 19
V. 8 11 9 12 10 14

- A) I, II, III B) I, III, V C) I, III, IV
D) II, IV, V E) II, III, IV

9. I. 4 12 16 48 52
II. 11 33 37 111 115
III. 15 45 49 147 151
IV. 7 11 33 37 111
V. 10 14 52 56 168

- A) I, IV, V B) I, II, V C) II, III, V
D) I, II, III E) III, IV, V

10. I. 46 53 67 74
II. 27 46 56 75
III. 17 54 37 65
IV. 23 15 25 53
V. 57 65 45 27

- A) I, II, V B) III, IV, V C) I, III, IV
D) III, II, V E) II, III, IV

11. $\frac{2}{1}, \frac{10}{2}, \frac{50}{3}, \frac{250}{4}, \dots, \frac{x}{12}, \dots, \frac{y}{17}, \frac{z}{18}$

$$\Rightarrow \frac{z - y}{x} = ?$$

- A) $2 \cdot 5^5$ B) $3 \cdot 5^5$ C) $4 \cdot 5^5$
D) $2 \cdot 5^6$ E) $3 \cdot 5^6$

12. $\frac{3}{1}, \frac{4}{2}, \frac{6}{3}, \frac{9}{4}, \dots, \frac{?}{13}$

- A) 69 B) 70 C) 71 D) 72 E) 73



YANITLAR / ANSWERS

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

BÖLÜM 4 CHAPTER

İŞLEMLER OPERATIONS

Bölüm / Chapter 4

Kuralı Denklemlerle Tanımlanan İşlemler / Operations Define by Equation Rules

Test 1

1. I. $a \bullet b = a^2 - b$

II. $3 \bullet 9 = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

4. I. $x \Delta y = xy + y$

II. $5 \Delta 9 = ?$

- A) 50 B) 52 C) 54 D) 56 E) 58

2. I. $a * b = a^2b - b^2a$

II. $5 * 4 = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

5. I. $x \triangleright y = x^2 - y^2 + 1$

II. $9 \triangleright 7 = ?$

- A) 30 B) 31 C) 32 D) 33 E) 34

3. I. $x \blacktriangle y = x^3 - y^3$

II. $(5 \blacktriangle 4) = ?$

- A) 60 B) 61 C) 62 D) 63 E) 64

6. I. $3 \cdot (a * b) + 3 = 6 \cdot (a - b)$

II. $4 * 2 = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

7. I. $a \bullet b = a^2 - b$

II. $5 \bullet x = 10$

III. $x = ?$

- A) 0 B) 5 C) 10 D) 15 E) 20

8. I. $a \blacksquare b = a^3 - b$

II. $a \blacksquare 30 = 34$

III. $a = ?$

- A) 0 B) 2 C) 4 D) 6 E) 8

9. I. $x \heartsuit y = \frac{x \cdot y}{3}$

II. $x \bullet y = x^2 - y$

III. $(3 \heartsuit 6) \bullet (6 \heartsuit 5) = ?$

- A) 16 B) 26 C) 36 D) 49 E) 81

10. I. $a \Rightarrow b = a \cdot b - 3$

II. $a \bullet b = a^2 + b^2$

III. $(3 \Rightarrow 2) \bullet (4 \Rightarrow 2) = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

11. I. $a \blacktriangle b = 2a + b$

II. $a \Rightarrow b = a + b$

III. $(8 \blacktriangle 12) \Rightarrow (12 \blacktriangle 8) = ?$

- A) 40 B) 60 C) 80 D) 100 E) 120

12. I. $a \circ b = a^b$

II. $a \triangle b = a - b$

III. $(6 \circ 2) \triangle (5 \circ 2) = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11



YANITLAR / ANSWERS

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

1. I. $a \blacksquare b = a + 4b$

II. $a \blacktriangle b = 3a - b$

III. $(3 \blacktriangle 8) \blacksquare (5 \blacktriangle 10) = ?$

- A) 21 B) 24 C) 28 D) 32 E) 35

2. I. $a \square b = a + b + 2$

II. $a * b = a \cdot b$

III. $(8 \square 2) * (5 \square 3) = ?$

- A) 100 B) 120 C) 140 D) 160 E) 180

3. I. $a \bullet b = a(b - 1)$

II. $a \triangle b = 2a - b$

III. $(5 \bullet 4) \triangle (7 \bullet 3) = ?$

- A) 10 B) 12 C) 13 D) 15 E) 16

4. I. $a \bullet b = (a + 1) \cdot (b - 1)$

II. $a \triangle b = 2a + b$

III. $(5 \bullet 3) \triangle (7 \bullet 5) = ?$

- A) 52 B) 54 C) 56 D) 58 E) 60

5. I. $a * b = a^b$

II. $a \blacksquare b = 3a - b^2$

III. $(5 * 2) \blacksquare (2 * 1) = ?$

- A) 70 B) 71 C) 72 D) 73 E) 74

6. I. $a \square b = \frac{a+b}{3}$

II. $a \triangle b = 2a + 3b$

III. $(9 \square 3) \triangle (8 \square 7) = ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

7. I. $a \blacksquare b = \sqrt{a^2 - b^2}$

II. $a \triangle b = a + b$

III. $(3 \triangle 10) \blacksquare (9 \triangle 3) = ?$

- A) 5 B) 4 C) 3 D) 2 E) 1

8. I. $a \star b = \frac{a}{5} + b$

II. $a \ast b = a \cdot b + 3$

III. $(35 \star 5) \ast (40 \star 2) = ?$

- A) 120 B) 121 C) 122 D) 123 E) 124

9. I. $a \triangle b = \frac{a+b}{5}$

II. $a \ast b = a + b - 8$

III. $(35 \triangle 15) - (12 \ast 6) = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

10. I. $a \ast b = \frac{3}{a} + \frac{b}{2}$

II. $a \diamond b = a^2 + 3b$

III. $(3 \ast 4) \diamond (3 \ast 8) = ?$

- A) 20 B) 22 C) 24 D) 26 E) 28

11. I. $a \triangle b = \frac{1}{a} + \frac{1}{b}$

II. $a \square b = a \cdot b$

III. $(7 \square 2) \triangle (3 \square 5) = ?$

- A)
- $\frac{22}{210}$
- B)
- $\frac{23}{210}$
- C)
- $\frac{26}{210}$
- D)
- $\frac{29}{210}$
- E)
- $\frac{31}{210}$

12. I. $a \triangle b = a^2 + b$

II. $a \ast b = ab + b$

III. $(5 \triangle 15) - (5 \ast 5) = ?$

- A) 0 B) 5 C) 10 D) 15 E) 20



YANITLAR / ANSWERS

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

1. I. $a \Delta b = \frac{5}{a} + \frac{6}{b}$
 II. $a * b = \frac{1}{a \cdot b}$
 III. $(15 \Delta 18) * (25 \Delta 12) = ?$

A) $\frac{15}{2}$ B) $\frac{15}{4}$ C) $\frac{15}{7}$ D) $\frac{21}{8}$ E) $\frac{23}{7}$

2. I. $a \oslash b = a^2 - b^2$
 II. $(3 \oslash c) = (5 \oslash d) = 9$
 $\Rightarrow c + d = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

3. I. $a \Delta b = 2a + 3b$
 II. $a \Delta 5 = 35$
 III. $a = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

4. I. $a \star \rightarrow a^2 - 4$
 II. $\Delta b \rightarrow b^2 - 144$
 III. $\Delta (4 \star) = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

5. I. $x \square y = x^2 + y - 1$
 II. $x \bullet y = 2x + y$
 III. $(5 \square 4) \bullet 4 = ?$

A) 60 B) 50 C) 40 D) 30 E) 20

6. I. $a \Delta b = a^3 - ab$
 II. $a \blacklozenge b = a^2 + 3b$
 III. $(5 \Delta 12) - (3 \blacklozenge 17) = ?$

A) 10 B) 9 C) 7 D) 6 E) 5

7. I. $a \bullet b = a^2 + b$
 II. $4 \bullet 12 = c \bullet 3$
 $\Rightarrow c = ?$

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

8. I. $a \oplus b = 3a + 4b$
 II. $4 \oplus 5 = 8 \oplus c$
 $\Rightarrow c = ?$

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

9. I. $a \bullet b = 3(a + b)$
 II. $a \triangle b = 2(a + b)$
 III. $a \blacktriangle b = a + b - 10$
 IV. $(7 \bullet 8) \blacktriangle (6 \triangle 4) = ?$

A) 45 B) 50 C) 55 D) 60 E) 65

10. I. $a \Rightarrow b = 2a + 3b$
 II. $a * b = a^2 + b$
 III. $a \bullet b = a + b$
 IV. $(9 \Rightarrow 7) \bullet (2 * 13) = ?$

A) 50 B) 52 C) 54 D) 56 E) 58

11. I. $a \Leftrightarrow b = ab + 3$
 II. $a \blacklozenge b = 2a - b$
 III. $a \bullet b = a + 3b$
 IV. $(4 \Leftrightarrow 2) \bullet (8 \blacklozenge 2) = ?$

A) 53 B) 54 C) 55 D) 56 E) 57

12. I. $x \oslash y = x + y + 5$
 II. $x \blacklozenge y = x^2 - y$
 III. $x \bullet y = x \cdot y$
 IV. $(5 \blacklozenge 10) \bullet (7 \oslash 1) = ?$

A) 170 B) 175 C) 180 D) 190 E) 195



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

1. I. $a \Delta b = a^2 + b + 3$

II. $a \# b = a + b^2 - 2$

III. $a \nabla b = 3a + b + 4$

IV. $(2 \Delta 4) \nabla (5 \# 3) = ?$

- A) 49 B) 50 C) 51 D) 52 E) 53

4. I. $a \blacksquare b = (a \cdot b) - a$

II. $a * b = a^2 - b$

III. $a \# b = a + 3 \cdot b$

IV. $(5 \blacksquare 2) * (3 \# 6) = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

2. I. $a \star b = ab + 1$

II. $a \blacktriangle b = a + 3b$

III. $a \bigcirc b = \frac{a+b}{2}$

IV. $(3 \star 3) \bigcirc (1 \blacktriangle 3) = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

5. I. $a \odot b = 2a + b^2$

II. $a + b = a^2 - a^b$

III. $a \blacktriangle b = \frac{a \cdot b}{3}$

IV. $(3 \odot 4) \blacktriangle (4 + 1) = ?$

- A) 44 B) 55 C) 66 D) 77 E) 88

3. I. $a * b = 5a + 3b$

II. $a \bullet b = 4a - b$

III. $a \blacktriangle b = 3a + 2b$

IV. $5 * (8 \bullet (4 \blacktriangle 5)) = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

6. I. $a \blacksquare b = a^2 - 2 \cdot b$

II. $a \blacklozenge b = a^3 + b$

III. $a \blacktriangle b = 2a + 3b$

IV. $(4 \blacksquare 6) \blacktriangle (2 \blacklozenge 3) = ?$

- A) 38 B) 39 C) 40 D) 41 E) 42

7. I. $a \diamond b = \frac{1}{a} + \frac{1}{b}$

II. $a \otimes b = a \cdot \frac{1}{b}$

III. $a \blacktriangle b = a - b$

IV. $(x \diamond y) \blacktriangle (y \otimes x) = ?$

A) $\frac{x-y+x^2}{y}$

B) $\frac{y+x^2}{xy}$

C) $\frac{x+y-y^2}{xy}$

D) $\frac{x^2+y^2-x}{x}$

E) $\frac{x+y^2}{y}$

8. I. $a \blacktriangle b = 2a + b$

II. $a * b = a + 3b$

III. $a \square b = b - a$

IV. $(8 \blacktriangle 2) * (14 \square 21) = ?$

A) 37

B) 38

C) 39

D) 40

E) 41

9. I. $a \star b = a^2 - b$

II. $a \blacksquare b = a + b^2$

III. $a \bullet b = a^3 + b^2$

IV. $(2 \bullet 3) \blacksquare (4 \star 12) = ?$

A) 30

B) 31

C) 32

D) 33

E) 34

10. I. $a \blacksquare b = a + b + 1$

II. $a \Delta b = a - b - 1$

III. $a \star b = a - b + 1$

IV. $(4 \blacksquare 3) \Delta (9 \star 5) = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

11. I. $x \star y = x^2 + y$

II. $x \Delta y = x \cdot y + 3$

III. $x \square y = x + y - 10$

IV. $(6 \star 12) \square (5 \Delta 12) = ?$

A) 100

B) 101

C) 102

D) 103

E) 104

12. I. $a \otimes b = a + b^2 + ab$

II. $a \P b = a \cdot b + 5$

III. $a \blacktriangle b = a^2 + b + 10$

IV. $(8 \otimes 3) \P (2 \blacktriangle 7) = ?$

A) 866

B) 867

C) 868

D) 869

E) 870

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

1. I. $a * (b + 2) = a \cdot b$

II. $8 * 5 = ?$

A) 20

B) 24

C) 28

D) 30

E) 32

2. I. $3a * b = a + b - 4$

II. $(15 * 7) = ?$

A) 0

B) 2

C) 4

D) 6

E) 8

3. I. $a^3 \blacktriangle b^3 = (a + b)2$

II. $(125 \blacktriangle 64) = ?$

A) 10

B) 12

C) 15

D) 18

E) 20

4. I. $(x + 5) \blacktriangle y = 2x - 2y$

II. $10 \blacktriangle 4 = ?$

A) 0

B) 2

C) 4

D) 6

E) 8

5. I. $a^2 \blacktriangle b = a \cdot b - 8$

II. $144 \blacktriangle 5 = ?$

A) 60

B) 58

C) 56

D) 54

E) 52

6. I. $a^3 \Delta b = a^2 - b$

II. $64 \Delta 12 = ?$

A) 0

B) 1

C) 2

D) 3

E) 4

7. I. $2x \heartsuit y = x + 2y$

II. $32 \heartsuit 12 = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

8. I. $x^2 \boxtimes 3y = xy + 1$

II. $25 \boxtimes 18 = ?$

- A) 30 B) 31 C) 32 D) 33 E) 34

9. I. $x^3 \ominus 5y = x + y^2 - 1$

II. $(125 \ominus 20) = ?$

- A) 19 B) 20 C) 21 D) 22 E) 23

10. I. $3x \clubsuit 4y = xy + 4$

II. $21 \clubsuit 16 = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

11. I. $3a \Delta b = a + 3b - 1$

II. $18 \Delta 9 = ?$

- A) 32 B) 34 C) 36 D) 38 E) 40

12. I. $18x \blacktriangle 2y = x + 3y + x^2$

II. $54 \blacktriangle 12 = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

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YANITLAR / ANSWERS

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

1. I. $3x \triangle y = x + y^3$

II. $75 \triangle y = 33$

III. $y = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

4. I. $x \circ y = (x + 1) \cdot y$

II. $(x + 2) \triangle y = x + y$

III. $(6 \triangle 10) \circ (10 \triangle 2) = ?$

- A) 140 B) 145 C) 150 D) 155 E) 160

2. I. $a^2 \blacksquare 3b = 2a - b$

II. $a \blacktriangle b = \frac{a \cdot b}{5}$

III. $(121 \blacksquare 9) \blacktriangle (36 \blacksquare 6) = ?$

- A) 35 B) 36 C) 37 D) 38 E) 39

5. I. $3a \times b^2 = a + b$

II. $4a * 2b = a + b^2$

III. $(16 * 10) - (18 \times 16) = ?$

- A) 29 B) 19 C) 18 D) 17 E) 16

3. I. $3a \square 4b = \frac{2 \cdot a \cdot b}{3}$

II. $a^2 \triangle b^3 = 4(a + b)$

III. $(9 \square 20) + (16 \triangle 216) = ?$

- A) 40 B) 44 C) 50 D) 54 E) 65

6. I. $x \star y = x + y + 1$

II. $2x \blacktriangle y = x \cdot y$

III. $(13 \star 12) \blacktriangle (5 \star 7) = ?$

- A) 121 B) 144 C) 169 D) 196 E) 216

7. I. $12a \star b^3 = a + 2b$
 II. $a \blacktriangle 3b = a \cdot b + 1$
 III. $(60 \star 125) \blacktriangle (48 \star 64) = ?$
 A) 60 B) 61 C) 62 D) 63 E) 64

8. I. $7a \ast 3b = a^2 - b$
 II. $a^2 \blacksquare b = a + b^2$
 III. $(169 \blacksquare 8) - (49 \ast 30) = ?$
 A) 30 B) 32 C) 34 D) 36 E) 38

9. I. $10x \circledast y = x + 5y$
 II. $5x \blacksquare 2y = x \cdot y - 4$
 III. $(120 \circledast 4) + (15 \blacksquare 20) = ?$
 A) 51 B) 53 C) 55 D) 57 E) 58

10. I. $a^3 \square b = 2a - b^2$
 II. $a \bullet b = a \cdot b + 13$
 III. $(125 \square 3) \bullet (64 \square 2) = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

11. I. $2a \Delta b^2 = a + b^3 - 1$
 II. $4a \star 4b = a \cdot b + 1$
 III. $(16 \star 24) + (10 \Delta 4) = ?$
 A) 39 B) 38 C) 37 D) 36 E) 35

7. I. $15a \blacksquare 7b = 5a + 3b$
 II. $a^3 \blacklozenge 4b = a + b + 1$
 III. $(45 \blacksquare 28) + (125 \blacklozenge 40) = ?$
 A) 40 B) 41 C) 42 D) 43 E) 44



YANITLAR / ANSWERS

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

1. I. $12a \Delta 22b = a^2 + b^2 + 5$
 II. $5a \blacklozenge 7b = a \cdot b + 13$
 III. $(48 \Delta 110) - (15 \blacklozenge 21) = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

2. I. $5x \odot y^2 = x^2 + y$
 II. $3x \bowtie y = x + 3y$
 III. $(15 \odot 36) + (27 \bowtie 7) = ?$
 A) 40 B) 41 C) 43 D) 45 E) 47

3. I. $13x \bowtie y = x + 11y$
 II. $10x \blacksquare y^2 = x \cdot y$
 III. $(100 \blacksquare 36) - (39 \bowtie 2) = ?$
 A) 35 B) 40 C) 45 D) 50 E) 55

4. I. $13y \nearrow 13x = xy + 2$
 II. $12y \nearrow x^2 = y + x$
 III. $(39 \nearrow 26) + (24 \nearrow 125) = ?$
 A) 11 B) 12 C) 13 D) 14 E) 15

5. I. $a^2 \clubsuit b = a \cdot b + b$
 II. $25 \clubsuit b = 36$
 III. $b = ?$
 A) 2 B) 4 C) 6 D) 8 E) 10

6. I. $7a * b^2 = a + 3b - 1$
 II. $a * b = 12a - 2b$
 III. $(21 * 16) + (2 * 8) = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

7. I. $8a \star b^3 = a + b^2 - 1$

II. $7a \bullet 3b = a \cdot b + 1$

III. $(24 \star 27) + (21 \bullet 12) = ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

8. I. $5x \ast 2y = (x + y) 4$

II. $x^2 \nabla y = x + y^2$

III. $(20 \ast 10) - (36 \nabla 4) = ?$

- A) 10 B) 12 C) 14 D) 16 E) 18

9. I. $4x \ast y = x + 3y - 2$

II. $x \bullet y^3 = x^2 + y - 4$

III. $(5 \bullet 27) + (16 \ast 2) = ?$

- A) 30 B) 31 C) 32 D) 33 E) 34

10. I. $3x \ast 2y = x + 5y + 3$

II. $x \bullet y^3 = 5x - y$

III. $(21 \ast 4) + (4 \bullet 27) = ?$

- A) 31 B) 33 C) 35 D) 37 E) 39

11. I. $9a \succ 7b = a^2 + b + 4$

II. $12a \text{ : } 5b = a + b + 12$

III. $a \bullet b = a \cdot b$

IV. $(27 \succ 14) \bullet (48 \text{ : } 25) = ?$

- A) 305 B) 310 C) 315
-
- D) 320 E) 325

12. I. $a^3 \square 3b = a + 2b$

II. $4a \blacktriangleright 2b = a + b^2$

III. $5a \bullet b^2 = \frac{a}{2} + 3b$

IV. $(40 \bullet 16) \blacktriangleright (64 \square 12) = ?$

- A) 20 B) 30 C) 40 D) 50 E) 60



YANITLAR / ANSWERS

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

1. I. $\frac{1}{a} \blacktriangle \frac{1}{b} = a^2 \cdot b$

II. $a \bullet b = \frac{1}{a} \cdot b^2$

III. $(2 \blacktriangle 4) \blacktriangle (3 \bullet 6) = ?$

A) 16

B) $\frac{64}{3}$

C) $\frac{72}{3}$

D) 32

E) 64

2. I. $8a * 3b = a^2 + 4b$

II. $a^3 \bullet b^2 = a \cdot b$

III. $(24 * 27) - (125 \bullet 36) = ?$

A) 11

B) 12

C) 13

D) 14

E) 15

3. I. $m \blacksquare n^2 = m^3 - n$

II. $m \blacktriangle 2n = m \cdot n$

III. $2m \star n = m - n$

IV. $(2 \blacksquare 25) \blacktriangle (24 \star 4) = ?$

A) 10

B) 12

C) 14

D) 16

E) 18

4. I. $3a \blacklozenge 4b = 2a + b$

II. $5a \blacksquare 8b = a \cdot b - 1$

III. $a^2 \blacktriangleright b = 2a + 3b$

IV. $(36 \blacktriangleright 4) \blacklozenge (25 \blacksquare 40) = ?$

A) 20

B) 22

C) 23

D) 24

E) 25

5. I. $a^3 \circ 3b = a^2 + 2b$

II. $a^4 \bullet 2b = a + b^2$

III. $a \star b = a + b + 4$

IV. $(125 \circ 21) \star (81 \bullet 8) = ?$

A) 60

B) 62

C) 64

D) 66

E) 68

6. I. $a^3 \blacktriangle b = 2a^2 + b$

II. $a^4 \blacksquare b = 3a - b$

III. $5a \circ 4b = a + b$

III. $(64 \blacktriangle 8) - (16 \blacksquare 2) + (25 \circ 4) = ?$

A) 36

B) 38

C) 40

D) 42

E) 44

7. I. $3a \blacksquare 4b = a + 2b$
 II. $4a \blacktriangle 2b = 2a + 3b$
 III. $8a \bigcirc 4b = 3a^2 + 2b$
 III. $(12 \blacksquare 12) - (4 \blacktriangle 18) + (16 \bigcirc 64) = ?$
 A) 22 B) 23 C) 24 D) 25 E) 26

8. I. $3a^2 \blacksquare 4b = 2a - b$
 II. $4a \blacktriangle 3b^3 = a + b$
 III. $5a \bigcirc 3b = 2a^2 + b^2$
 III. $(27 \blacksquare 24) - (16 \blacktriangle 81) + (35 \bigcirc 6) = ?$
 A) 95 B) 105 C) 125 D) 130 E) 145

9. I. $3a^2 \bigcirc 8b = 2a - 3b$
 II. $4a \triangle 3b = 2a + 4b$
 III. $2a^2 \blacksquare 3b = \frac{2 \cdot a}{b}$
 III. $(75 \bigcirc 8) + (16 \triangle 27) - (18 \blacksquare 6) = ?$
 A) 47 B) 48 C) 49 D) 50 E) 51

10. I. $a^2 \heartsuit b^4 = 2a - 3b$
 II. $a^3 \bullet b^5 = 4a + 2b$
 III. $(25 \heartsuit 16) + (125 \bullet 32) = ?$
 A) 25 B) 27 C) 28 D) 29 E) 30

11. I. $a^2 \heartsuit b^3 = a + b^2$
 II. $a \bullet b = a^2 - b^2$
 III. $(16 \heartsuit 64) + (5 \bullet 4) = ?$
 A) 10 B) 15 C) 20 D) 25 E) 29

12. I. $13a \square b^2 = a + 2b$
 II. $11a \bullet b^3 = a - b$
 III. $(39 \square 81) + (44 \bullet 125) = ?$
 A) 41 B) 42 C) 43 D) 44 E) 45

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

1. I. $2 \cdot (a \triangle b) + 8 = -6$

II. $4 \triangle 5 = ?$

- A) -10 B) -9 C) -8 D) -7 E) -6

4. I. $\frac{2 \cdot (a \square b) + 6}{5} = 4$

II. $12 \square 5 = ?$

- A) 10 B) 9 C) 8 D) 7 E) 6

2. I. $4 \cdot ((a \triangle b) + 1) = 3 \cdot ((a \triangle b) - 1)$

II. $12 \triangle 14 = ?$

- A) -5 B) -6 C) -7 D) -8 E) -9

5. I. $\frac{a \triangle b}{2} + \frac{(a \triangle b) + 11}{3} = \frac{17}{6}$

II. $3 \triangle 10 = ?$

- A) -2 B) -1 C) 0 D) 1 E) 2

3. I. $6 \cdot (a \blacksquare b) + 10 = 3 \cdot ((a \blacksquare b) - 2) - 6$

II. $4 \blacksquare 7 = ?$

- A) -7 B)
- $-\frac{22}{3}$
- C)
- $-\frac{23}{3}$
- D) -8 E)
- $-\frac{25}{3}$

6. I. $\frac{1}{a \triangle b} = \frac{2}{a + 2 \cdot b}$

II. $4 \triangle 3 = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

7. I. $a \Delta b = \frac{1+a\Delta b}{a+b-1} + a$

II. $\frac{1}{2} \Delta 3 = ?$

- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

8. I. $\frac{6}{1+\left(\frac{1}{a\Delta b}\right)} = a \cdot \frac{1}{b}$

II. $\frac{3}{2} \Delta \frac{1}{2} = ?$

- A) $-\frac{1}{2}$ B) -1 C) $\frac{1}{2}$ D) 1 E) 2

9. I. $\frac{2(a\Delta b)}{3} = \frac{6}{2a+b}$

II. $2 \Delta 5 = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

10. I. $\frac{1}{1+\frac{1}{1+(a\Delta b)}} = a+b-2$

II. $(4 \Delta 2) = ?$

- A) $\frac{2}{3}$ B) $\frac{1}{3}$ C) -1 D) -2 E) $-\frac{7}{3}$

11. I. $\frac{2+\frac{a\Delta b}{2}}{24} = \frac{1}{(2a+b)}$

II. $(2 \Delta 2) = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

12. I. $\frac{(a \Delta b) + a - 1}{2} - \frac{(a \Delta b) - \frac{a}{2}}{b - 1} = 3 \cdot (b - a)$

II. $4 \Delta 5 = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5



YANITLAR / ANSWERS

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

1. I. $1 + \frac{b}{1 - \frac{b}{a \Delta b}} = a - 1$

II. $3 \Delta 2 = ?$

- A) -2 B) -1 C) 0 D) 1 E) 2

2. I. $\frac{3 - (a \Delta b)}{b + 1} - \frac{(a \Delta b) + a - 2}{a - 1} = 5$

II. $(4 \Delta 1) = ?$

- A) -5 B) -3 C) -2 D) 3 E) 5

3. I. $\frac{2 \cdot (a \square b) - 1}{a - 3} - \frac{(a \square b) - 1}{b} = \frac{b}{2}$

II. $(6 \square 4) = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

4. I. $\frac{a}{1 + \frac{b}{1 + \frac{(a \square b) - 1}{b}}} = 2$

II. $(4 \square 2) = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

5. I. $2(a \square b) + b > (a \square b) + a - 2$

II. $(7 \square 5) = X, X \in \mathbb{N} \Rightarrow \min(X) = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

6. I. $\frac{b - 2 \cdot (a \square b)}{a} = -2a - 1$

II. $(5 \square 3) = ?$

- A) 29 B) 30 C) 31 D) 32 E) 33

7. I. $\frac{2a + 1 - 3 \cdot (a * b)}{b} = b$

II. $(3 * 4) = ?$

- A) -5 B) -3 C) -2 D) 3 E) 5

8. I. $\frac{(a \triangle b) - a}{b - 1} - \frac{(a \triangle b) - 1}{b} = b - a$

II. $(3 \triangle 4) = ?$

- A) -6 B) -21 C) -1 D) 21 E) 6

9. I. $\frac{(a \square b) - b}{b} = a - \frac{2 \cdot (a \square b) + 2a}{2b + 1}$

II. $(6 \square 4) = ?$

- A) 8 B) 9 C) 10 D) 12 E) 14

10. I. $\frac{2 \cdot (a \triangle b) - a}{b} - \frac{(a \triangle b) + 1}{b} = -\frac{a}{b}$

II. $(3 \triangle 5) = ?$

- A) 5 B) 4 C) 3 D) 2 E) 1

11. I. $a - \frac{a \triangle b}{a - \frac{b}{a + \frac{b}{b}}} = a$

II. $1 \triangle 3 = ?$

- A) 6 B) 3 C) 0 D) -3 E) -6

12. I. $\frac{a + (a \triangle b) + b}{b} + a \cdot b = a(a \triangle b) - 1$

II. $5 \triangle 3 = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7



YANITLAR / ANSWERS

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

1. $a \blacktriangle b = a \cdot b - (a \blacktriangle b)$
 $\Rightarrow 4 \blacktriangle 7 = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

2. $a \square b = a^2 - ab + 4 \cdot (a \square b)$
 $\Rightarrow 6 \square 10 = ?$

- A) -8 B) -4 C) 0 D) 4 E) 8

3. $3 \cdot (a \square b) + a^2 = 4(a \square b) + b^2$
 $\Rightarrow 6 \square 4 = ?$

- A) 5 B) 10 C) 15 D) 20 E) 25

4. $x \triangle y = x \cdot y - 3 \cdot (y \triangle x)$
 $\Rightarrow 4 \triangle 2 = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

5. $(a + 4) \star (b - 2) = ((b + 1) \star (a + 1)) \cdot 3 + a \cdot b$
 $\Rightarrow 7 \star 10 = ?$

- A) 35 B) 30 C) 27 D) 25 E) 20

6. $a^2 \blacktriangle b^3 = (2a \blacktriangle 9b) \cdot 4 - a + b^2 - ab$
 $\Rightarrow (2 \blacktriangle 3) = ?$

- A) $-\frac{1}{2}$ B) $-\frac{1}{3}$ C) 0 D) $\frac{1}{3}$ E) $\frac{1}{2}$

7. $a \spadesuit b = b^2 + 9 - (a + b) - 2(a \clubsuit b)$
 $\Rightarrow 6 \spadesuit 7 = ?$

- A) 15 B) 16 C) 17 D) 18 E) 19

8. $\frac{1}{a \triangle b} = \frac{b^2}{b - a} + \frac{2}{a \triangle b} - \frac{a^6}{b}$
 $\Rightarrow 2 \triangle 4 = ?$

- A) $\frac{1}{16}$ B) $\frac{1}{8}$ C) $\frac{1}{4}$ D) $\frac{1}{2}$ E) 1

9. $a^5 \square \sqrt{b} = b - a^3 - 1 - 2(b - 2a) \square 3a$
 $\Rightarrow 32 \square 6 = ?$

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

10. $8(a \clubsuit b) + a^2 - b^2 = \frac{a \clubsuit b}{2} + a^2 + b$
 $\Rightarrow 2 \clubsuit 5 = ?$

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

11. $2(x \triangle y) = \frac{x^2 + y^2 + xy}{x + y} - 3(y \triangle x)$

- A) $\frac{109}{5}$ B) $\frac{110}{12}$ C) $\frac{28}{15}$ D) $\frac{110}{17}$ E) $\frac{110}{5}$

12. $2a \square 3b = 5ab + a + b - 4(8b \square (a - 1))$
 $\Rightarrow 8 \square 3 = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8



YANITLAR / ANSWERS

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

1. I. $(a, b) \nabla (c, d) = (a \cdot b + c, c \cdot d + b)$

II. $(a, b) \square (c, d) = \left(\frac{a}{b} + d, \frac{c}{d} + b\right)$

III. $((6, 2) \square (9, 3)) \nabla (2, 3) = ?$

A) (33, 10)

B) (32, 10)

C) (33, 11)

D) (32, 11)

E) (34, 11)

2. I. $(a, b) \star (c, d) = (a \cdot c, b \cdot d)$

II. $(a, b) \blacksquare (c, d) = (b + c, a + d)$

III. $((4, 3) \blacksquare (2, 5)) \star (6, 4) = ?$

A) (28, 30)

B) (30, 36)

C) (32, 34)

D) (30, 32)

E) (28, 32)

3. I. $(a, b) \square (c, d) = (3a - b, 2c + d)$

II. $(a, b) \triangle (c, d) = (a \cdot b, c^2 - d^2)$

III. $((4, 5) \square (2, 1)) \triangle ((2, 5) \triangle (3, 1)) = ?$

A) (35, 36)

B) (32, 36)

C) (40, 49)

D) (35, 30)

E) (35, 40)

4. I. $(a, b) \triangle (c, d) = \left(\frac{a}{c}, b \cdot d\right)$

II. $(a, b) \square (c, d) = (a^c, b\sqrt{d})$

III. $((4, 3) \triangle (2, 1)) \triangle ((2, 3) \square (1, 8)) = ?$

A) (1, 5)

B) (4, 6)

C) (2, 5)

D) (2, 4)

E) (1, 6)

5. I. $(a, b) \triangle (c, d) = (a + b, b - c)$

II. $(a, b) \square (c, d) = \left(a \cdot d, \frac{b}{c}\right)$

III. $((1, 4) \triangle (2, 6)) \triangle ((3, 12) \square (4, 4)) = ?$

A) (10, 10)

B) (8, -10)

C) (7, 12)

D) (10, -10)

E) (7, -10)

6. I. $(a, b) \triangle (c, d) = (a \cdot b + c, c \cdot d + a)$

II. $(a, b) \square (c, d) = \left(\frac{a}{d}, \frac{c}{b}\right)$

III. $((1, 3) \triangle (2, 5)) \square ((8, 2) \square (4, 2))$

A) (2, 3)

B) $\left(\frac{4}{5}, \frac{4}{4}\right)$

C) $\left(2, \frac{5}{2}\right)$

D) $\left(\frac{5}{3}, \frac{3}{11}\right)$

E) $\left(\frac{5}{2}, \frac{4}{11}\right)$

7. I. $(a, b) \Delta (c, d) = (2a - c, \frac{3b}{2d})$
 II. $(a, b) \square (c, d) = (a^2 - b, \sqrt{c \cdot d})$
 III. $((6, 2) \Delta (1, 3)) \Delta ((3, 5) \square (8, 2)) = ?$
 A) $(18, \frac{3}{5})$ B) $(16, \frac{3}{8})$ C) $(18, \frac{3}{8})$
 D) $(15, \frac{3}{5})$ E) $(\frac{3}{5}, \frac{3}{8})$

8. I. $(a, b) \square (c, d) = (a \cdot d + 1, b + c + 2)$
 II. $(a, b) \Delta (c, d) = (\frac{a}{c} + b, d - c)$
 III. $((3, 1) \square (4, 2)) \square ((12, 2) \Delta (6, 4))$
 A) $(10, -13)$ B) $(14, -13)$ C) $(-13, 13)$
 D) $(-13, 14)$ E) $(13, 14)$

9. I. $(a, b) \Delta (c, d) = (a \cdot b + c, c \cdot d + a)$
 II. $(a, b) \square (c, d) = (a \cdot c - b, b \cdot d - a)$
 III. $((4, 1) \Delta (2, 5)) \square ((3, 1) \square (5, 12)) = ?$
 A) $(70, 120)$ B) $(84, 126)$ C) $(70, 126)$
 D) $(84, 120)$ E) $(77, 126)$

10. I. $(a, b) \square (c, d) = (a \cdot d - b \cdot c, a \cdot c - b \cdot d)$
 II. $(a, b) \Delta (c, d) = (a \cdot b - c \cdot d, a \cdot b + c \cdot d)$
 III. $((3, 2) \square (4, 1)) \square ((6, 2) \Delta (3, 4)) = ?$
 A) $(120, 240)$ B) $((120, 240))$ C) $(-120, 240)$
 D) $(-120, -240)$ E) $(120, -120)$

11. I. $(x, y) \square (z, t) = (x \cdot z + t, y \cdot z - t)$
 II. $(x, y) \square (z, t) = (\frac{x - t}{y - z}, \frac{x + t}{y + z})$
 III. $((10, 3) \square (1, 2)) \square (1, 2) = ?$
 A) $(3, 1)$ B) $(6, 1)$ C) $(1, 3)$
 D) $(2, 5)$ E) $(1, 6)$

12. I. $(x, y) \square (z, t) = (x^t, z^y)$
 II. $(x, y) \Delta (z, t) = (\sqrt[t]{x}, \sqrt{y \cdot z})$
 III. $((3, 2) \square (2, 1)) \Delta (9, 27)$
 A) $(3, 6)$ B) $(2, 5)$ C) $(6, 3)$
 D) $(1, 5)$ E) $(6, 2)$



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

1. I. $(A + 1, B + 2) * (A^a, B^b) = (Ab, aB)$

II. $(3, 5) * (16, 243) = ?$

A) (52, 43)

B) (43, 25)

C) (25, 43)

D) (25, 34)

E) (43, 52)

2. I. $(K - 4, K + P) \star (N + P, M - N) = (P \cdot N, K \cdot M)$

II. $(1, 6) \star (5, 4) = ?$

A) (4, 4)

B) (4, 40)

C) (40, 4)

D) (40, 40)

E) (4, 14)

3. I. $(5M, 4N) \blacktriangle (R^2, 3P) = (M + P, 2R + N)$

II. $(20, 20) \blacktriangle (81, 21) = ?$

A) (11, 23)

B) (12, 24)

C) (11, 22)

D) (22, 11)

E) (24, 12)

4. I. $(E^F, F^E) \blacksquare (P^R, R^P) = (EF, RP)$

II. $(8, 9) \blacksquare (1, 4) = ?$

A) (41, 23)

B) (23, 14)

C) (41, 32)

D) (32, 41)

E) (23, 41)

5. I. $(M \cdot N, M \cdot P) \star (N \cdot P, N \cdot R) = \left(\frac{M}{N}, \frac{P}{R} \right)$

II. $(8, 6) \star (12, 20) = ?$

A) $\left(\frac{3}{5}, \frac{2}{4} \right)$

B) $\left(\frac{1}{2}, \frac{3}{5} \right)$

C) $\left(\frac{1}{2}, \frac{5}{3} \right)$

D) $\left(2, \frac{3}{5} \right)$

E) $\left(2, \frac{5}{3} \right)$

6. I. $(K, L) \clubsuit (O, P) = (L - O, P + K)$

II. $(3^{-1}, 3^{-3}) \clubsuit (3^{-2}, 3^{-3}) = ?$

A) $\left(-\frac{1}{27}, \frac{10}{27} \right)$

B) $\left(-\frac{2}{27}, \frac{9}{27} \right)$

C) $\left(-\frac{2}{27}, \frac{10}{27} \right)$

D) $\left(\frac{2}{27}, -\frac{10}{27} \right)$

E) $\left(-\frac{2}{27}, -\frac{10}{27} \right)$

7. I. $(a, b) * (m, n) = (a + b)\frac{1}{m}, (a - b)\frac{1}{n}$
 II. $(4, 3) * (\frac{1}{2}, \frac{1}{3}) = ?$
 A) (49, 1) B) (49, -1) C) (-49, -1)
 D) (-49, 1) E) (1, 49)

8. I. $(3x + 2, y - 2) \spadesuit (\sqrt{a}, b) = (x + a, b^y)$
 II. $(5, 4) \spadesuit (4, 2) = ?$
 A) (16, 64) B) (17, 64) C) (16, 65)
 D) (17, 65) E) (18, 64)

9. I. $(a, b) \blacktriangle (m, n) = (\frac{a}{m} + n, \frac{b}{n} + m)$
 II. $(3, 4) \blacktriangle (2, 5) = ?$
 A) $(\frac{2}{13}, \frac{14}{5})$ B) $(\frac{13}{2}, \frac{5}{14})$ C) $(\frac{13}{2}, \frac{14}{5})$
 D) $(\frac{14}{5}, \frac{13}{2})$ E) $(\frac{14}{5}, \frac{2}{13})$

10. I. $(\frac{x}{y}, \frac{a}{b}) \blacksquare (x, a) = (y, b)$
 II. $(4, 4) \blacksquare (16, 8) = ?$
 A) (4, 4) B) (2, 2) C) (4, 2)
 D) $(\frac{1}{2}, 2)$ E) $(\frac{1}{4}, 4)$

11. I. $(a, b - m) * (n - m, a - n) = (m + n)^{a+b}$
 II. $(6, 1) * (2, 2) = ?$
 A) 9^6 B) 3^{12} C) 6^9 D) 12^3 E) 3^6

12. I. $(R \cdot P, \frac{M}{P}) \star (\frac{M}{2}, M \cdot N) = (\frac{RP}{-2}, \frac{NM}{2})$
 II. $(10, 2) \star (2, 12) = ?$
 A) (17, 26) B) (26, 17) C) (-26, -17)
 D) (-26, 17) E) (17, -26)



YANITLAR / ANSWERS

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

1. I. $a \spadesuit b = \begin{cases} a+2 \cdot b, & a > b \\ 2 \cdot a+b, & a < b \\ a+b, & a = b \end{cases}$
 II. $(4 \spadesuit 4) \spadesuit (5 \spadesuit 2) = ?$

- A) 22 B) 23 C) 24 D) 25 E) 26

4. I. $a \square b = \begin{cases} a \cdot b & 2a + b > 7 \\ \frac{a}{b} & 2a + b \leq 7 \end{cases}$

II. $(3 \square 1) + (4 \square 2) = ?$

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

2. I. $a \Delta b = \begin{cases} 2 \cdot a+b, & a < b \\ a \cdot b, & a \geq b \end{cases}$

II. $(4 \Delta 3) \Delta 14 = ?$

- A) 38 B) 40 C) 42 D) 44 E) 46

5. I. $a \ast b = \begin{cases} a \cdot b + 2 & a < b \\ (a+b)^2 & a \geq b \end{cases}$

II. $(2 \ast 7) \ast (1 \ast 1) = ?$

- A) 169 B) 196 C) 256 D) 400 E) 1000

3. I. $a \Delta b = \begin{cases} a^2 - b^2 & a \cdot b > 0 \\ 2a - b & a \cdot b < 0 \end{cases}$

II. $(4 \Delta -3) + (5 \Delta 2) = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

6. I. $a \square b = \begin{cases} 2a + b + 1 & a^2 < b^2 \\ a - b + 5 & a^2 \geq b^2 \end{cases}$

II. $(-4 \square 3) \square (3 \square 5) = ?$

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

7. I. $a \square b = \begin{cases} a^2 - b & a > b \\ b^2 - a & a \leq b \end{cases}$

II. $(3 \square 4) + (5 \square 2) = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

8. I. $a * b = \begin{cases} a + 2b & \frac{a}{b} > 1 \\ a^2 - b & \frac{a}{b} \leq 1 \end{cases}$

II. $(4 * 5) * (5 * 3) = ?$

- A) 108 B) 109 C) 110 D) 111 E) 112

9. I. $a \square b = \begin{cases} 3a - b & \sqrt{a \cdot b} > 6 \\ a + b & \sqrt{a \cdot b} \leq 6 \end{cases}$

II. $(9 \square 4) + (10 \square 4) = ?$

- A) 13 B) 26 C) 39 D) 52 E) 65

10. I. $a \square b = \begin{cases} a + 2b & a^2 > b^3 \\ a \cdot b + 3 & a^2 < b^3 \end{cases}$

II. $(6 \square 3) \square (3 \square 4) = ?$

- A) 180 B) 181 C) 182 D) 183 E) 184

11. I. $a \square b = \begin{cases} a \cdot b & 3a + b > 15 \\ 2a & 3a + b \leq 15 \end{cases}$

II. $(4 \square 5) \square (2 \square 1) = ?$

- A) 16 B) 48 C) 64 D) 80 E) 100

12. I. $a \square b = \begin{cases} \frac{2a - b}{3} & a \cdot b \geq 0 \\ 4a + b & a \cdot b < 0 \end{cases}$

II. $(-1 \square 5) \square (6 \square 3) = ?$

- A) $-\frac{1}{3}$ B) $-\frac{1}{4}$ C) $-\frac{1}{5}$ D) $-\frac{1}{6}$ E) $-\frac{1}{7}$



YANITLAR / ANSWERS

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

1. I. $A \blacktriangle B = \begin{cases} A^B + B, & A > B \\ A + B, & A = B \\ B^A + A, & A < B \end{cases}$

II. $2 \blacktriangle ((2 \blacktriangle 2) \blacktriangle 3) = ?$

- A) 4490 B) 4391 C) 4492 D) 4392 E) 4491

4. I. $A \spadesuit B = \begin{cases} 4A - B, & A \cdot B > 0 \\ 5B - A, & A \cdot B < 0 \end{cases}$

II. $(-3 \spadesuit 4) \spadesuit 2 = 10 \cdot 3^x \quad x = ?$

- A) 0 B) -1 C) -2 D) 2 E) 1

2. I. $x * y = \begin{cases} 3x - y, & x > y \\ x + y, & x = y \\ 3x + y, & x < y \end{cases}$

II. $((3 * 3) * 4) * 15 = ?$

- A) 54 B) 55 C) 56 D) 57 E) 58

5. I. $a \blacksquare b = \begin{cases} \frac{b}{a} - 1, & \frac{a}{b} \geq 1 \\ \frac{b}{a} + 1, & \frac{a}{b} < 1 \end{cases}$

II. $(-3 \blacksquare 2) \blacksquare (4 \blacksquare 5) = ?$

- A) $-\frac{23}{27}$ B) $\frac{31}{27}$ C) $-\frac{31}{27}$ D) $\frac{23}{27}$ E) 1

3. I. $a \star b = \begin{cases} 2a^3 + b - 1, & a > b \\ a - b, & a = b \\ 2a^3 - b, & a < b \end{cases}$

II. $-2 \star [(1 \star 2) \star (2 \star 3)] = ?$

- A) -32 B) -30 C) 0 D) 30 E) 32

6. I. $x \clubsuit y = \begin{cases} (x + y)^2, & 3x + y > 12 \\ (x - y)^2, & 3x + y < 12 \end{cases}$

II. $(4 \clubsuit 3) \clubsuit (1 \clubsuit 2) = ?$

- A) 2304 B) 2500 C) 1600 D) 2401 E) 2000

7. I. $x \star y = \begin{cases} \frac{x+y}{x-y}, & \sqrt{x+y} \geq 3 \\ \frac{x-y}{x+y}, & \sqrt{x+y} < 3 \end{cases}$

II. $(5 \star 4) \star (3 \star 2) = ?$

A) $\frac{22}{23}$ B) $-\frac{23}{22}$ C) $\frac{23}{22}$ D) $\frac{11}{23}$ E) $-\frac{23}{44}$

8. I. $x \blacksquare y = \begin{cases} \frac{x+y}{x-y}, & x+y=0 \\ \frac{x-y}{x+y}, & x+y \neq x \end{cases}$

II. $[(3 \blacksquare -3) \blacksquare (-7 \blacksquare 8)] = ?$

A) -2 B) 2 C) 0 D) 1 E) -1

9. I. $A \star B = \begin{cases} A^B + B, & A^{-1} > B^{-1} \\ B^A + A, & A^{-1} < B^{-1} \end{cases}$

II. $(2 \star 4), (3 \star 1) = ?$

A) (5, -4) B) (-4, 5) C) (-20, 4) D) (20, 4) E) (4, 5)

10. I. $x \blacktriangle y = \begin{cases} \frac{2x+y}{3}, & 3 \leq x+y < 8 \\ \frac{3x+2y}{2}, & 8 \leq x+y < 12 \end{cases}$

II. $(4 \blacktriangle 1), (6 \blacktriangle 4) = ?$

A) (13, 3) B) (13, 13) C) (3, 3) D) (3, 13) E) (33, 13)

11. I. $x \blacktriangle y = \begin{cases} x^2 + y^2, & \frac{x}{y} \geq 1 \\ x^2 - y^2, & \frac{x}{y} < 1 \end{cases}$

II. $(5 \blacktriangle 2), (3 \blacktriangle 4) = ?$

A) (29, 7) B) (-29, 7) C) (-29, -7)
D) (29, -7) E) (-7, 29)

12. I. $x \blacksquare y = \begin{cases} \left(\frac{x}{y}\right)^2 + 1, & x > y \\ x + y + 1, & x = y \\ \left(\frac{y}{x}\right)^2 + 1, & x < y \end{cases}$

II. $(3 \blacksquare -2) \blacksquare (-2 \blacksquare 3) = ?$

A) $\frac{13}{4}$ B) $\frac{13}{2}$ C) $\frac{15}{2}$ D) $-\frac{13}{4}$ E) $-\frac{13}{2}$



YANITLAR / ANSWERS

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

1. I. $a \oplus b = 4(a \Delta b)$

II. $a \Delta b = 5(a - b)$

III. $(10 \oplus 7) = ?$

A) 10

B) 30

C) 40

D) 60

E) 70

4. I. $x \triangle y = (x \circ y) - xy$

II. $x \circ y = x^2 + y^2$

III. $8 \triangle 7 = ?$

A) 51

B) 53

C) 55

D) 57

E) 59

2. I. $x * y = 2(x \bullet y)$

II. $x \bullet y = 5(x + y)$

III. $7 * 3 = ?$

A) 10

B) 50

C) 100

D) 150

E) 200

5. I. $a * b = (a \bullet b) + 7$

II. $a \bullet b = a \cdot b$

III. $5 * 2 = ?$

A) 11

B) 12

C) 13

D) 15

E) 17

3. I. $a * b = (a \bullet b) + 10$

II. $a \bullet b = 10(a - b)$

III. $15 * 8 = ?$

A) 80

B) 90

C) 100

D) 110

E) 120

6. I. $a \star b = (a \blacktriangle b) + 5$

II. $a \blacktriangle b = 2a - b$

III. $3 \star 4 = ?$

A) 5

B) 6

C) 7

D) 8

E) 9

7. I. $a \blacksquare b = \frac{(a \odot b)}{2}$

II. $a \odot b = a \cdot b - 1$

III. $5 \blacksquare 3 = ?$

- A) 1 B) 3 C) 5 D) 7 E) 9

8. I. $a \star b = (a \blacktriangle b) - 3a$

II. $a \blacktriangle b = (a + b) \cdot 4$

III. $5 \star 15 = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

9. I. $a \ast b = (a \bullet b)2$

II. $a \bullet b = (a - b)3$

III. $12 \ast 7 = ?$

- A) 10 B) 20 C) 25 D) 30 E) 35

10. I. $a \blacktriangle b = (a \bullet b) + b$

II. $a \bullet b = a \cdot b$

III. $7 \blacktriangle 9 = ?$

- A) 64 B) 66 C) 68 D) 70 E) 72

11. I. $a \odot b = (a \square b) + 9$

II. $a \square b = a^2 + b - 1$

III. $5 \odot 10 = ?$

- A) 40 B) 41 C) 42 D) 43 E) 44

12. I. $a \triangle b = (a \clubsuit b) + 3a$

II. $a \clubsuit b = b^2 - a$

III. $12 \triangle 9 = ?$

- A) 105 B) 110 C) 115 D) 120 E) 125



YANITLAR / ANSWERS

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

1. I. $x \triangle y = (x \square y) + y$

II. $x \square y = 2x + y^2$

III. $5 \triangle 7 = ?$

- A) 60 B) 62 C) 64 D) 66 E) 68

2. I. $a \diamond b = (a \heartsuit b) - 7$

II. $a \heartsuit b = 12a - 5b$

III. $4 \diamond 5 = ?$

- A) 10 B) 12 C) 14 D) 16 E) 18

4. I. $a \blacktriangle b = (a \bullet b) - 3a$

II. $a \bullet b = (a \star b) + 15$

III. $a \star b = a^2 - b$

IV. $(5 \blacktriangle 4) = ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

5. I. $a \blacktriangle b = (a \bullet b) \cdot 2$

II. $a \bullet b = (a \ast b) + 4$

III. $a \ast b = 2a + b$

IV. $5 \blacktriangle 2 = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

6. I. $a \triangle b = (a \bullet b) + 1$

II. $a \bullet b = (a \ast b) - 3$

III. $a \ast b = a \cdot b$

IV. $4 \triangle 7 = ?$

- A) 20 B) 22 C) 24 D) 26 E) 25

7. I. $x * y = (x \bullet y) - 5$

II. $x \bullet y = (x \Delta y) \cdot 3$

III. $x \Delta y = x - y$

IV. $12 * 4 = ?$

A) 11

B) 13

C) 15

D) 17

E) 19

8. I. $x^2 * y = \frac{(x \circ y)}{2}$

II. $x \circ y = (x \blacktriangle y) + 4$

III. $x \blacktriangle y = 3x + y$

IV. $25 * 15 = ?$

A) 9

B) 11

C) 13

D) 15

E) 17

9. I. $x \Delta y = (x \bullet y) + 5$

II. $x \bullet y = (x * y) \cdot 3$

III. $x * y = x + y$

IV. $(9 \Delta 4) = ?$

A) 36

B) 38

C) 40

D) 42

E) 44

10. I. $x \Delta y = (x \bullet y) \cdot 4$

II. $x \bullet y = (x * y) + 4$

III. $x * y = x^2 - y$

IV. $2 \Delta 3 = ?$

A) 10

B) 15

C) 20

D) 25

E) 30

11. I. $a \blacklozenge b = (a \Delta b) - 3$

II. $a \Delta b = (a \bullet b) \cdot 2$

III. $a \bullet b = 3a - b$

IV. $(9 \Delta 4) - (4 \blacklozenge 2) = ?$

A) 21

B) 23

C) 25

D) 27

E) 29

12. I. $x \star y = 3 \cdot (x \heartsuit y)$

II. $x \heartsuit y = 5 \cdot (x \Delta y)$

III. $x \Delta y = (x + y)$

IV. $5 \star 7 = ?$

A) 140

B) 150

C) 160

D) 170

E) 180

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YANITLAR / ANSWERS

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

1. I. $x * y = 2(x @ y)$
 II. $x @ y = (x \blacksquare y) + 5$
 III. $x \blacksquare y = 2x + y$
 IV. $7 * 3 = ?$
 A) 40 B) 41 C) 42 D) 43 E) 44

2. I. $a \Delta b = (a \oplus b) - 10$
 II. $a \oplus b = 3(a \bullet b)$
 III. $a \bullet b = \frac{a}{b}$
 IV. $24 \Delta 2 = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

3. I. $x \Delta y = (x \star y) + 5$
 II. $x \star y = (x \square y) + 12$
 III. $x \square y = x + y^2$
 IV. $3 \Delta 4 = ?$
 A) 36 B) 38 C) 39 D) 42 E) 43

4. I. $a * b = (a \bullet b) - 4$
 II. $a \bullet b = 2a - b$
 III. $7 * 4 = ?$
 A) 2 B) 6 C) 10 D) 12 E) 14

5. I. $x \heartsuit y = (x * y) + 3$
 II. $x * y = (x \Rightarrow y) + x^2$
 III. $x \Rightarrow y = x + y$
 IV. $3 \heartsuit 2 = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

6. I. $a * b = (a \bullet b) + ab$
 II. $a \bullet b = (a \Delta b) + 1$
 III. $a \Delta b = a - b$
 IV. $10 * 9 = ?$
 A) 90 B) 91 C) 92 D) 93 E) 94

7. I. $a \triangle b = 2(a \bullet b)$

II. $a \bullet b = (a * b) \cdot 3$

III. $a * b = \frac{a \cdot b}{2} + 4$

IV. $12 \triangle 4 = ?$

- A) 160 B) 162 C) 164 D) 166 E) 168

8. I. $a \star b = \frac{(a \star b) - 8}{2}$

II. $a \star b = 4(a \bullet b)$

III. $a \bullet b = a^2 - b$

IV. $5 \star 4 = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

9. I. $x \star y = (x \bullet y) \cdot y$

II. $x \bullet y = (x \star y) + x^2 - 1$

III. $x \star y = x + y^2$

IV. $4 \star 2 = ?$

- A) 22 B) 28 C) 34 D) 40 E) 46

10. I. $x \blacktriangle y = (x \bullet y) + 5x$

II. $x \bullet y = (x * y) + 3y$

III. $x * y = 2x + y$

IV. $4 \blacktriangle 5 = ?$

- A) 40 B) 42 C) 44 D) 46 E) 48

11. I. $a \heartsuit b = (a \bullet b) + 3$

II. $a \bullet b = (a \blacksquare b) \cdot 4$

III. $a \blacksquare b = a + 3b$

IV. $7 \heartsuit 3 = ?$

- A) 59 B) 61 C) 63 D) 65 E) 67

12. I. $a \triangle b = (a \circ b) + a^2$

II. $a \circ b = (a \bullet b) - 2b$

III. $a \bullet b = a \cdot b$

IV. $5 \triangle 4 = ?$

- A) 29 B) 31 C) 33 D) 35 E) 37



YANITLAR / ANSWERS

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

1. I. $x \heartsuit y = (x \odot y) \cdot 2$
 II. $x \odot y = (x \Delta y) + 5$
 III. $x \Delta y = x - y + 1$
 IV. $5 \heartsuit 4 = ?$
 A) 10 B) 11 C) 12 D) 13 E) 14

4. I. $a * b = (a \odot b) + 9$
 II. $a \odot b = \frac{a \Delta b}{3}$
 III. $a \Delta b = a^2 + b$
 IV. $5 * 2 = ?$
 A) 18 B) 20 C) 22 D) 24 E) 26

2. I. $a * b = \frac{(a \odot b)}{7}$
 II. $a \odot b = (a \Delta b)$
 III. $a \Delta b = a + b$
 IV. $(15 * 13) = ?$
 A) 1 B) 2 C) 4 D) 5 E) 6

5. I. $a * b = 5 \cdot (a \odot b)$
 II. $a \odot b = (a \Delta b) - 1$
 III. $a \Delta b = 2 \cdot (a + b)$
 IV. $7 * 3 = ?$
 A) 105 B) 100 C) 95 D) 90 E) 85

3. I. $a * b = (a \odot b) + 6$
 II. $a \odot b = 4 \cdot (a \Delta b)$
 III. $a \Delta b = a^2 - b$
 IV. $(3 * 5) = ?$
 A) 20 B) 21 C) 22 D) 23 E) 24

6. I. $a \odot b = (a \Delta b) + 4$
 II. $a \Delta b = 2(a * b)$
 III. $a * b = a + b$
 IV. $(11 \odot 9) = ?$
 A) 44 B) 46 C) 48 D) 50 E) 52

7. I. $a * b = (a \blacktriangle b) + ab$

II. $a \blacktriangle b = (a \bullet b) - 12$

III. $a \bullet b = 3a - b$

IV. $15 * 3 = ?$

- A) 55 B) 60 C) 65 D) 70 E) 75

8. I. $a \square b = (a * b) + 4a$

II. $a * b = (a \bullet b) - 12$

III. $a \bullet b = a \cdot b + 7$

IV. $7 \square 4 = ?$

- A) 59 B) 57 C) 55 D) 53 E) 51

9. I. $a * b = (a \triangle b) + 10b$

II. $a \triangle b = (a \bullet b) \cdot 2$

III. $a \bullet b = (a + b) 3$

IV. $7 * 4 = ?$

- A) 98 B) 100 C) 102 D) 104 E) 106

10. I. $a \oslash b = (a \bullet b) \cdot 3$

II. $a \bullet b = (a * b) - 4b$

III. $a * b = (3a + 2b)$

IV. $10 \oslash 8 = ?$

- A) 40 B) 42 C) 44 D) 46 E) 48

11. I. $(a \blacktriangle b) * c = (a + b^2) * c$

II. $(a * b) \triangle c = (3(a + b)) \triangle c$

III. $(a \triangle b) = 2 \cdot (a + b)$

IV. $(4 \blacktriangle 3) * (7 \triangle 5) = ?$

- A) 108 B) 109 C) 110 D) 111 E) 112

12. I. $a \blacktriangle b = a^2 + b^2 - 3a \cdot (a \blacktriangle b)$

II. $5 \blacktriangle 1 = ?$

- A)
- $\frac{27}{16}$
- B)
- $\frac{13}{8}$
- C)
- $\frac{3}{2}$
- D)
- $\frac{5}{4}$
- E) 1



YANITLAR / ANSWERS

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

1. I. $a * b = 2a + 3b$

II. $c * 6 = 6 * 4$

$\Rightarrow c = ?$

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

2. I. $3x \nabla y = x + 3y$

II. $5x \Rightarrow y^3 = x \cdot y - 1$

III. $(12 \nabla 4) + (20 \Rightarrow 125) = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

3. I. $5a \bullet 3b = 2a - b$

II. $a^2 \blacktriangle b^2 = a - b$

III. $(75 \bullet 9) + (25 \blacktriangle 4) = ?$

- A) 30 B) 32 C) 33 D) 34 E) 35

4. I. $4a \bullet b = a \cdot b - 2$

II. $5a \blacktriangle b^2 = a \cdot b$

III. $(20 \bullet 3) - (20 \blacktriangle 9) = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

5. I. $x \blacktriangle y = (x \bullet y) \cdot 4$

II. $x \bullet y = x - y$

III. $14 \blacktriangle 9 = ?$

- A) 19 B) 20 C) 21 D) 22 E) 23

6. I. $a \bullet b = (a \blacktriangle b) - 3$

II. $a \blacktriangle b = a^2 + b$

III. $5 \bullet 7 = ?$

- A) 29 B) 30 C) 31 D) 32 E) 33

7. I. $x \text{ } \text{ } y = x + y + xy$

II. $x \text{ } \text{ } y = 2x + 2y + 5$

III. $(7 \text{ } \text{ } 5) + (5 \text{ } \text{ } 3) = ?$

- A) 68 B) 70 C) 72 D) 74 E) 76

8. I. $x \text{ } \text{ } y = 2x + 4y + 12$

II. $5 \text{ } \text{ } 4 = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

9. I. $a^2 \text{ } \text{ } b^3 = ab$

II. $a \text{ } \text{ } b = 2ab$

III. $(9 \text{ } \text{ } 125) - (3 \text{ } \text{ } 1) = ?$

- A) 7 B) 9 C) 11 D) 13 E) 15

10. I. $a \text{ } \text{ } b = (a \triangle b) \cdot a$

II. $a \triangle b = a + b^2$

III. $7 \text{ } \text{ } 2 = ?$

- A) 71 B) 73 C) 75 D) 77 E) 79

11. I. $a \text{ } \text{ } b = (a \bullet b) - ab$

II. $a \text{ } \text{ } b = a^2 + b^2$

III. $4 \text{ } \text{ } 6 = ?$

- A) 20 B) 22 C) 24 D) 26 E) 28

12. I. $a * b = (a \bullet b) + a$

II. $a \text{ } \text{ } b = (a \triangle b) - b$

III. $a \triangle b = a \cdot b$

IV. $7 * 5 = ?$

- A) 33 B) 34 C) 35 D) 36 E) 37



YANITLAR / ANSWERS

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

1. I. $a \odot b = 2a + b$

II. $10 \odot b = 50$

III. $b = ?$

A) 10

B) 20

C) 30

D) 40

E) 50

2. I. $a \nearrow b = 2a + 3b$

II. $7 \nearrow b = 44$

III. $b = ?$

A) 10

B) 11

C) 12

D) 13

E) 14

3. I. $5x \blacksquare y = x + 3y$

II. $4a \Delta b = a + b^2$

III. $(15 \blacksquare 7) + (16 \Delta 9) = ?$

A) 101

B) 103

C) 104

D) 108

E) 109

4. I. $12x \blacksquare y^3 = x \cdot y$

II. $108 \blacksquare 125 = ?$

A) 15

B) 25

C) 35

D) 45

E) 55

5. I. $14x \bullet 13y = x + y^2$

II. $5x \bullet y^2 = (x + y) \cdot 2$

III. $(56 \bullet 39) + (10 \bullet 81) = ?$

A) 10

B) 15

C) 25

D) 30

E) 35

6. I. $a \square b = (a * b) + 2a$

II. $a * b = (a \Delta b) - 7b$

III. $a \Delta b = a \cdot b + 1$

IV. $5 \square 2 = ?$

A) 7

B) 6

C) 5

D) 4

E) 3

7. I. $a \bullet b = (a \blacktriangle b) + 21$
 II. $a \blacktriangle b = (a * b) - 3b$
 III. $a * b = 2(a + b)$
 IV. $11 \bullet 7 = ?$
 A) 9 B) 16 C) 25 D) 36 E) 64

8. I. $a \triangle b = (a * b) \cdot 3$
 II. $a * b = (a \bullet b) + 7$
 III. $a \bullet b = a - b$
 IV. $(11 \triangle 2) = ?$
 A) 44 B) 46 C) 48 D) 50 E) 52

9. I. $a \blacksquare b = a + b - 1$
 II. $(15 \blacksquare 17) = ?$
 A) 30 B) 31 C) 32 D) 33 E) 34

10. I. $a \triangle b = a \cdot b + 7$
 II. $5 \triangle 4 = ?$
 A) 20 B) 23 C) 25 D) 26 E) 27

11. I. $x * y = \frac{x \cdot y}{3}$
 II. $x \bullet y = (x - y) \cdot 2$
 III. $(9 * 21) + (15 \bullet 12) = ?$
 A) 61 B) 63 C) 65 D) 67 E) 69

12. I. $a \blacktriangle b = (a * b) - 3a$
 II. $a * b = (a \bullet b) + 2ab$
 III. $a \bullet b = \frac{a \cdot b}{5}$
 IV. $5 \blacktriangle 3 = ?$
 A) 14 B) 15 C) 16 D) 17 E) 18



YANITLAR / ANSWERS

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

1. I. $x \odot y = \frac{x \cdot y}{5}$
 II. $x \triangle y = x^2 + y + 5$
 III. $(5 \triangle 10) \odot (5 \triangle 15) = ?$
 A) 120 B) 240 C) 360 D) 720 E) 840
2. I. $a \bullet b = a + 3b$
 II. $a \blacktriangle b = b + 6a$
 III. $(5 \blacktriangle 2) \bullet (2 \blacktriangle 3) = ?$
 A) 50 B) 62 C) 77 D) 80 E) 91
3. I. $a \blacktriangle b = 3a - b$
 II. $a \bullet b = a^2 + b$
 III. $(2 \bullet 3) \blacktriangle (4 \blacktriangle 1) = ?$
 A) 10 B) 18 C) 24 D) 28 E) 36
4. I. $a \star b = \frac{a \cdot b}{2}$
 II. $a \bullet b = ab - 1$
 III. $(4 \star 5) \bullet (3 \star 2) = ?$
 A) 30 B) 29 C) 28 D) 27 E) 26
5. I. $7a \blacktriangle 4b = 3(a + b)$
 II. $a^3 \bullet 2b = a^2 - b$
 III. $(35 \blacktriangle 16) - (64 \bullet 12) = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19
6. I. $x^5 \otimes 2y = \frac{x \cdot y}{2}$
 II. $243 \otimes 20 = ?$
 A) 10 B) 15 C) 20 D) 25 E) 30

7. I. $a * b^2 = 3a - b$
 II. $a \triangle b = a^2 + b$
 III. $(3 * 16) \triangle (6 * 36) = ?$
 A) 37 B) 39 C) 41 D) 43 E) 45

8. I. $a^3 * 4b = a^2 + 3b$
 II. $(64 * 28) = ?$
 A) 33 B) 35 C) 37 D) 39 E) 41

9. I. $a \bullet b = (a \triangle b) - 4$
 II. $a \triangle b = (a * b) b$
 III. $a * b = a - b$
 IV. $9 \bullet 4 = ?$
 A) 16 B) 17 C) 18 D) 19 E) 20

10. I. $a \blacktriangle b = (a \bullet b) + b^3$
 II. $a \bullet b = (a * b) - 2$
 III. $a * b = a^2 - b$
 IV. $7 \blacktriangle 2 = ?$
 A) 49 B) 50 C) 51 D) 52 E) 53

11. I. $a \blacktriangle b = (a * b) + 3$
 II. $a * b = (a \bullet b) - 5$
 III. $a \bullet b = a - b$
 IV. $8 \blacktriangle 6 = ?$
 A) 0 B) 1 C) 2 D) 3 E) 4

12. I. $a \Leftarrow b = a \square 2b$
 II. $a \square b = 2a \bullet b$
 III. $a \bullet b = \frac{a+b}{2}$
 IV. $4 \Leftarrow 6 = ?$
 A) 6 B) 8 C) 10 D) 12 E) 14



YANITLAR / ANSWERS

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

1. I. $a \blacktriangle b = \frac{a-b}{3}$
 II. $a \bullet b = a^2 + b^2$
 III. $(27 \blacktriangle 9) \bullet (12 \blacktriangle 3) = ?$
 A) 40 B) 45 C) 50 D) 55 E) 60

4. I. $a * b = \frac{a^2 - b^2}{2}$
 II. $a \bullet b = \frac{a \cdot b}{2}$
 III. $(5 * 3) \bullet (10 * 8) = ?$
 A) 75 B) 74 C) 73 D) 72 E) 70

2. I. $a \blacktriangle b = 2a + b$
 II. $3 \blacktriangle x = 4 \blacktriangle 2$
 III. $x = ?$
 A) 3 B) 4 C) 5 D) 6 E) 7

5. I. $a^3 \blacktriangle b^2 = \frac{1}{a} - \frac{1}{b}$
 II. $64 \blacktriangle 25 = ?$
 A) $\frac{3}{20}$ B) $\frac{1}{20}$ C) $\frac{11}{20}$ D) $\frac{9}{20}$ E) $\frac{7}{20}$

3. I. $a \blacktriangle b = 4a^2 - b^2$
 II. $a \blacktriangle 4 = 20$
 III. $a = ?$
 A) 2 B) 3 C) 4 D) 5 E) 6

6. I. $4x \circ 5y = 2x + y^3$
 II. $(16 \circ 20) = ?$
 A) 70 B) 72 C) 74 D) 76 E) 78

7. I. $a^3 \nabla 2b = a - b$
 II. $a \blacksquare b = a^2 \cdot b$
 III. $(5 \blacksquare 4) - (125 \nabla 4) = ?$
 A) 95 B) 96 C) 97 D) 98 E) 99

8. I. $8x \blacksquare 12y = 2x + y^2$
 II. $5x \star 4y = x - 3y$
 III. $(24 \blacksquare 36) + (75 \star 16) = ?$
 A) 15 B) 16 C) 17 D) 18 E) 19

9. I. $a \supset b = 2a \blacktriangle 3b$
 II. $a \star b = a - 2b$
 III. $a \blacktriangle b = 3a \star 2b$
 IV. $12 \supset 4 = ?$
 A) 24 B) 28 C) 32 D) 36 E) 40

10. I. $x \blacktriangle y = (x \bullet y) + x$
 II. $x \bullet y = y (x \Delta y)$
 III. $x \Delta y = 2 (x + y)$
 IV. $5 \blacktriangle 2 = ?$
 A) 30 B) 31 C) 32 D) 33 E) 34

11. I. $x \clubsuit y = 4 (x \nabla y)$
 II. $x \nabla y = (x \star y) + 12$
 III. $x \star y = x + y - 5$
 IV. $4 \clubsuit 5 = ?$
 A) 16 B) 25 C) 36 D) 49 E) 64

12. I. $a \rightrightarrows b = (a \ast b) + b$
 II. $a \ast b = (a \bullet b) + a$
 III. $a \bullet b = a \cdot b$
 IV. $4 \rightrightarrows 9 = ?$
 A) 41 B) 43 C) 45 D) 47 E) 49



YANITLAR / ANSWERS

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

1. I. $x \odot y = x^2 - y$
 II. $y \square x = y + x - 1$
 III. $x \triangle y = \frac{x}{y} + 1$
 IV. $(a \bullet b) \square (b \triangle a) = ?$

- A) $\frac{a^3 - ab + b}{a}$ B) $\frac{a + b^3 - ab}{b}$ C) $\frac{a + ab^3 + b}{ab}$
 D) $\frac{a^2 + b^3 + b}{b}$ E) $\frac{a^3 + b^2 + a}{ab}$

4. I. $x \clubsuit y = \frac{x}{y} - 1$
 II. $x \triangle y = \frac{x \cdot y}{2}$
 III. $(36 \clubsuit 12) \triangle (96 \clubsuit 16) = ?$

- A) 1 B) 3 C) 5 D) 7 E) 9

2. I. $a \triangle b = \frac{a}{b}$
 II. $a \ast b = a^b$
 III. $(24 \triangle 12) \ast (36 \triangle 12) = ?$

- A) 2 B) 4 C) 6 D) 8 E) 16

5. I. $7m \ast n^2 = m + 2n - 1$
 II. $3m \blacksquare 2n = m \cdot n + 1$
 III. $(28 \ast 36) + (18 \blacksquare 10) = ?$

- A) 43 B) 44 C) 45 D) 46 E) 47

3. I. $a \ast b = 2a \cdot (a + b)$
 II. $a \triangle b = a - b$
 III. $(3 \ast 5) \triangle (3 \ast 2) = ?$

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

6. I. $15x \blacktriangle 3y = 2x - y$
 II. $x \odot y = x^2 + y^2$
 III. $(4 \odot 3) + (75 \blacktriangle 9) = ?$

- A) 30 B) 31 C) 32 D) 33 E) 34

7. I. $14a * 7b = a^2 + b + 3$

II. $5a \blacksquare b^3 = a \cdot b + 1$

III. $(42 * 14) + (45 \blacksquare 8) = ?$

- A) 30 B) 31 C) 32 D) 33 E) 34

8. I. $8a * 3b = a^2 + b - 1$

II. $3a \blacksquare b = a + 2b + 3$

III. $(48 * 21) + (15 \blacksquare 12) = ?$

- A) 71 B) 72 C) 73 D) 74 E) 75

9. I. $x \blacklozenge y = (x \blacksquare y) + 10$

II. $x \blacksquare y = x (x \triangle y)$

III. $x \triangle y = 2x - y$

IV. $(5 \blacklozenge 4) = ?$

- A) 40 B) 60 C) 90 D) 100 E) 120

10. I. $a \triangle b = (a * b) + 7$

II. $a * b = 2(a \circ b)$

III. $a \circ b = a - b$

IV. $(18 \triangle 7) = ?$

- A) 29 B) 30 C) 31 D) 32 E) 33

11. I. $12a * b^3 = a \cdot b + 5$

II. $a^3 \circ b = a + b^2 - 1$

III. $(36 * 64) + (125 \circ 4) = ?$

- A) 31 B) 33 C) 35 D) 37 E) 39

12. I. $x \blacktriangle y = (x \blacktriangleright y) + 17$

II. $x \blacktriangleright y = (x * y) + xy$

III. $x * y = 3x - y$

IV. $8 \blacktriangle 3 = ?$

- A) 62 B) 63 C) 64 D) 65 E) 66



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

1. I. $a \bullet b = \frac{a}{b}$
 II. $a \triangle b = a^2 + b$
 III. $(2 \triangle 4) \bullet (3 \triangle 7) = ?$

A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{1}{4}$ D) $\frac{1}{5}$ E) $\frac{1}{6}$

2. I. $x * y = 3x + 4y$
 II. $x \triangle y = x - y$
 III. $(11 \triangle 6) * (12 \triangle 7) = ?$

A) 31 B) 33 C) 35 D) 37 E) 39

3. I. $a \star b = 3a + b^2$
 II. $6 \star c = 2 \star 4$
 $\Rightarrow c = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

4. I. $a \blacktriangle b = 2a + 3b$
 II. $a \bigcirc b = a^2 + b^2$
 III. $(5 \bigcirc 6) - (6 \blacktriangle 5) = ?$

A) 34 B) 36 C) 38 D) 40 E) 42

5. I. $6a \times 7b = a \cdot b - 1$
 II. $a^3 \div b^2 = (a + b)2$
 III. $(36 \times 14) + (125 \div 16) = ?$

A) 25 B) 26 C) 27 D) 28 E) 29

7. I. $5a \oplus 7b = a^2 + b + 10$

II. $3a \ominus b = a \cdot b$

III. $(18 \omin� 4) + (20 \oplus 14) = ?$

- A) 50 B) 51 C) 52 D) 53 E) 54

8. I. $12x \oplus 15y = x \cdot y$

II. $12x \omin� 13y = x + y$

III. $(36 \omin� 39) + (48 \oplus 75) = ?$

- A) 20 B) 22 C) 24 D) 26 E) 28

9. I. $a \omin� b = (a \Rightarrow b) + 12$

II. $a \Rightarrow b = (a \omin� b) - 3b$

III. $a \omin� b = 4a + 2b$

IV. $10 \omin� 12 = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

10. I. $x^2 \omin� y = (x \omin� y) + xy$

II. $x \omin� y = (x \omin� y) + 15$

III. $x \omin� y = 3(x + y)$

IV. $25 \omin� 12 = ?$

- A) 126 B) 128 C) 130 D) 132 E) 134

11. I. $x \omin� y^3 = (x \omin� y) + y^2$

II. $x \omin� y = x^2 + y - 1$

III. $(7 \omin� 64) = ?$

- A) 64 B) 65 C) 66 D) 67 E) 68

12. I. $a \omin� b = (a \omin� b) - 13$

II. $a \omin� b = (a \omin� b) + ab$

III. $a \omin� b = a^2 + b$

IV. $8 \omin� 19 = ?$

- A) 111 B) 222 C) 333 D) 444 E) 555



YANITLAR / ANSWERS

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

1. I. $a * b = (a + 1) \cdot b$

II. $a \triangle b = a \cdot b + 5$

III. $(5 * 4) - (5 \triangle 3) = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

2. I. $a \oplus b = 4a - b$

II. $6 \oplus c = d \oplus 4 = 7 \oplus 12$

$\Rightarrow 4d + c = ?$

- A) 22 B) 24 C) 26 D) 28 E) 30

3. I. $a * b = \frac{a}{b}$

II. $a \triangle b = a - b$

III. $(88 * 4) \triangle (77 * 11) = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

4. I. $a * b = (a + b) 3$

II. $a \bullet b = 2a - b$

III. $(7 \bullet 5) + (5 * 2) = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

5. I. $7a * b^3 = \frac{a+b}{2}$

II. $a \blacktriangle b = a \cdot b$

III. $[(28 * 64) \blacktriangle 9] = ?$

- A) 16 B) 25 C) 36 D) 49 E) 81

6. I. $a^2 * b = a \cdot b - 1$

II. $a \blacktriangle b = \frac{a-b}{2}$

III. $[(81 * 9) \blacktriangle 20] = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

7. I. $5x * 2y = (x + y) \cdot 3$
 II. $x \triangle y = x \cdot y + 11$
 III. $(25 * 10) + (2 \triangle 5) = ?$
 A) 50 B) 51 C) 52 D) 53 E) 54

8. I. $2x \approx y = 10x - y$
 II. $24 \approx y = 100$
 III. $y = ?$
 A) 10 B) 20 C) 30 D) 40 E) 50

9. I. $x \Leftarrow y = (x * y) \cdot 3$
 II. $x * y = (x \circ y) + 15$
 III. $x \circ y = x^3 + 2y$
 IV. $2 \Leftarrow 18 = ?$
 A) 29 B) 84 C) 122 D) 143 E) 177

10. I. $a * b = 10 (a \circ b)$
 II. $a \circ b = (a \square b) + (a + b)$
 III. $a \square b = 10a - 2b$
 IV. $10 * 20 = ?$
 A) 900 B) 800 C) 700 D) 600 E) 500

11. I. $a \blacktriangle b = a \bullet (b + 1)$
 II. $a \bullet b = (a - 1) \triangle b$
 III. $a \triangle b = a + b + 2$
 IV. $(4 \blacktriangle 3) = ?$
 A) 7 B) 8 C) 9 D) 10 E) 11

12. I. $a \star b = (a \triangle b) + a$
 II. $a \triangle b = 2 \cdot (a - b)$
 III. $16 \star 9 = ?$
 A) 30 B) 36 C) 48 D) 54 E) 66



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

1. I. $a * b = a(b - 2)$
 II. $a \Delta b = a + 3 + b$
 III. $[5 * (7 \Delta 4)] = ?$
 A) 40 B) 50 C) 60 D) 80 E) 100

2. I. $x \odot y = x^y - y^x$
 II. $(2 \odot 5) = ?$
 A) 3 B) 5 C) 7 D) 9 E) 11

3. I. $a \blacktriangle b = 2a + 3b$
 II. $a * b = a \cdot b + 8$
 III. $(8 \blacktriangle 9) - (3 * 2) = ?$
 A) 21 B) 23 C) 25 D) 27 E) 29

4. I. $x \circ y = x + y^2$
 II. $x \blacksquare y = x \cdot y$
 III. $(5 \blacksquare 4) - (3 \circ 3) = ?$
 A) 2 B) 4 C) 6 D) 8 E) 10

5. I. $2x^2 \bullet 3y = x + y^2 + 10$
 II. $72 \bullet 15 = ?$
 A) 40 B) 41 C) 42 D) 43 E) 44

6. I. $4x \heartsuit y^2 = (x + y) 2$
 II. $5x \odot y = x + 2y$
 III. $(8 \heartsuit 9) \odot (12 \heartsuit 4) = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

7. I. $5x^2 \rightarrow 10y = (x + y)^2$

II. $125 \rightarrow 120 = ?$

- A) 30 B) 32 C) 34 D) 36 E) 38

8. I. $x * y^3 = x^2 + y$

II. $3x \bullet 2y = x \cdot y + 3$

III. $(7 * 125) - (12 \bullet 16) = ?$

- A) 11 B) 13 C) 15 D) 17 E) 19

9. I. $a \Delta b = (a \bullet b) - 1$

II. $a \bullet b = a^3 - b$

III. $4 \Delta 28 = ?$

- A) 35 B) 36 C) 37 D) 38 E) 39

10. I. $3^{2x\Delta 2-y} = 81$

II. $a \Delta b = 2(a+b)$

III. $x + y = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

11. I. $a * b = (a \Delta b) + b$

II. $a \Delta b = (a \bullet b) + 4$

III. $a \bullet b = a + b^2$

IV. $7 * 4 = ?$

- A) 31 B) 32 C) 33 D) 34 E) 35

12. I. $a * b = (a \bullet b) + b^2$

II. $a \bullet b = a^2 - b$

III. $9 * 11 = ?$

- A) 187 B) 188 C) 189 D) 190 E) 191



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

1. I. $a \heartsuit b = a^2 - b^2$
 II. $a + b = (a - b)3$
 III. $[(5 \heartsuit 4) + 5] = ?$
 A) 10 B) 12 C) 14 D) 16 E) 18

2. I. $a \blacklozenge b = a^2 - b^2$
 II. $a \times b = 11a - 7b$
 III. $a \heartsuit b = a + b$
 IV. $(13 \blacklozenge 12) \heartsuit (7 \times 11) = ?$
 A) 21 B) 22 C) 23 D) 24 E) 25

3. I. $a * b = a + b + 12$
 II. $a \blacktriangle b = a^2 + b - 1$
 III. $(7 * 9) + (12 \blacktriangle 8) = ?$
 A) 175 B) 176 C) 177 D) 178 E) 179

4. I. $a \clubsuit b = \frac{a+b}{3}$
 II. $a > b = a \cdot b - 1$
 III. $a \bullet b = \frac{a+b}{2}$
 IV. $(15 \clubsuit 24) \bullet (8 > 3) = ?$
 A) 12 B) 14 C) 16 D) 18 E) 20

5. I. $3x \bullet 2y = x \cdot y + 12$
 II. $18 \bullet 12 = ?$
 A) 40 B) 42 C) 44 D) 46 E) 48

6. I. $4x \heartsuit 7y = x + 2y + 1$
 II. $16 \heartsuit 21 = ?$
 A) 9 B) 10 C) 11 D) 12 E) 13

7. I. $17x \diamond 14y = x \cdot y$
 II. $19x * 16y = x + y$
 III. $(34 \diamond 28) + (57 * 64) = ?$
 A) 9 B) 10 C) 11 D) 12 E) 13

8. I. $a^3 \blacktriangle b^2 = 3a - b$
 II. $a^2 \blacksquare b^3 = a + 2b$
 III. $(27 \blacktriangle 9) + (36 \blacksquare 64) = ?$
 A) 20 B) 21 C) 22 D) 23 E) 24

9. I. $a \Delta b = (a \bullet b) + 7a$
 II. $a \bullet b = (a * b) - 2$
 III. $a * b = a - b$
 IV. $7 \Delta 5 = ?$
 A) 50 B) 51 C) 52 D) 53 E) 54

10. I. $a * b = (a \Delta b) + a^2$
 II. $a \Delta b = (a \bullet b) - ab$
 III. $a \bullet b = a^2 + b^2$
 IV. $7 * 5 = ?$
 A) 77 B) 88 C) 99 D) 101 E) 111

11. I. $a * b = a (a \Delta b) - 1$
 II. $a \Delta b = (a + b) 2$
 III. $7 * 9 = ?$
 A) 224 B) 223 C) 222 D) 221 E) 220

12. I. $a \square b = \frac{(a \circ b)}{5}$
 II. $a \circ b = (a \bullet b) - 5$
 III. $a \bullet b = a \cdot b$
 III. $15 \square 7 = ?$
 A) 10 B) 15 C) 17 D) 19 E) 20



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

1. I. $a * b = a + b^2$
 II. $a * b = \frac{a+b}{4}$
 III. $a \bullet b = a \cdot b + 1$
 IV. $(5 * 2) * (2 \bullet 3) = ?$
 A) 2 B) 4 C) 6 D) 8 E) 10

4. I. $a \spadesuit b = a^3 - b^2$
 II. $a * b = \frac{a \cdot b}{2}$
 III. $(4 \spadesuit 5) - (12 * 5) = ?$
 A) 1 B) 3 C) 5 D) 7 E) 9

2. I. $a \bullet b = \frac{a \cdot b}{2}$
 II. $a \square b = a + 2b$
 III. $(5 \bullet 4) \square (7 \bullet 6) = ?$
 A) 50 B) 51 C) 52 D) 53 E) 54

5. I. $a \blacktriangle b = a^2 + b^2$
 II. $a^3 \blacksquare 4b = \frac{a}{b}$
 III. $(1000 \blacksquare 20) \blacktriangle (125 \blacksquare 20) = ?$
 A) 1 B) 2 C) 3 D) 4 E) 5

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3. I. $x \oint y = \frac{x-y}{3}$
 II. $x \otimes y = (x+y)2 - 1$
 III. $(39 \oint 12) \otimes (19 \oint 7) = ?$
 A) 15 B) 20 C) 25 D) 30 E) 35

6. I. $5a * 7b = a^2 - b$
 II. $3a^2 \bullet b = a + b^2 - 1$
 III. $(30 * 49) - (48 \bullet 4) = ?$
 A) 10 B) 11 C) 12 D) 13 E) 14

7. I. $7a \star b^2 = a^2 - 3b$
 II. $4a \bullet b = a + b^2 + 1$
 III. $(16 \bullet 5) + (21 \star 1) = ?$
 A) 28 B) 30 C) 32 D) 34 E) 36

8. I. $a \bullet b = (a \Delta b) + 4$
 II. $a \Delta b = (a \ast b) - 9$
 III. $a \ast b = a^3 - b$
 IV. $4 \bullet 15 = ?$
 A) 38 B) 44 C) 53 D) 69 E) 72

9. I. $a \Delta b = (a \ast b) - 15$
 II. $a \ast b = (a \bullet b) 2$
 III. $a \bullet b = 7a - 3b$
 IV. $7 \Delta 12 = ?$
 A) 11 B) 10 C) 9 D) 8 E) 7

10. I. $a \ast b = (a \bullet b) + 7$
 II. $a \bullet b = 5(a \Delta b)$
 III. $a \Delta b = 4a - b$
 IV. $7 \ast 12 = ?$
 A) 83 B) 84 C) 85 D) 86 E) 87

11. I. $a \square b = (a \blacktriangle b) 3$
 II. $a \blacktriangle b = \frac{a \circ b}{2}$
 III. $a \circ b = a \cdot b$
 IV. $12 \square 9 = ?$
 A) 160 B) 162 C) 164 D) 166 E) 168

12. I. $a \Delta b = (a \bullet b) + b$
 II. $a \bullet b = 7a + b^2$
 III. $11 \Delta 5 = ?$
 A) 101 B) 103 C) 105 D) 107 E) 109

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

1. I. $x * y = \frac{x+y}{4}$
 II. $x \bullet y = \frac{x+2y-1}{2}$
 III. $[(15 * 13) \bullet 9] = ?$
 A) 10 B) 12 C) 14 D) 16 E) 18

4. I. $a \square b = a^2 + b + 3a$
 II. $a \bullet b = a + b^2 + ab - 1$
 III. $(5 \square 17) - (5 \bullet 4) = ?$
 A) 17 B) 16 C) 15 D) 14 E) 13

2. I. $x \star y = x^2 + y^2 - 1$
 II. $x \bullet y = \frac{x \cdot y}{2}$
 III. $[(3 \star 4) \bullet 12] = ?$
 A) 121 B) 144 C) 169 D) 216 E) 321

5. I. $a * b = 3(a - b)$
 II. $a \bullet b = \frac{a \cdot b}{4}$
 III. $a \Delta b = a + b^2$
 IV. $(16 \bullet 8) \Delta (7 * 4) = ?$
 A) 110 B) 111 C) 112 D) 113 E) 114

3. I. $a \bigcirc b = a^3 - b$
 II. $a \triangle b = \frac{a^2}{2} + b$
 III. $a \blacksquare b = \frac{a^3}{b^2}$
 III. $(2 \bigcirc 4) + (4 \triangle 8) - (2 \blacksquare 1) = ?$
 A) 11 B) 12 C) 13 D) 14 E) 15

6. I. $a * b = ab + b^2$
 II. $a \Delta b = 3(a + b)$
 III. $[(7 * 4) \Delta 12] = ?$
 A) 160 B) 162 C) 164 D) 166 E) 168

7. I. $2a * b = (a \Delta b) \cdot 6$
 II. $a \Delta b = (a \bullet b) - 8$
 III. $a \bullet b = 5a - b$
 IV. $18 * 7 = ?$
 A) 120 B) 100 C) 160 D) 140 E) 180

8. I. $a \blacklozenge b = (a * b) \cdot 2$
 II. $a * b = (a \bullet b) - 7$
 III. $a \bullet b = (3a + b)$
 IV. $7 \blacklozenge 12 = ?$
 A) 52 B) 53 C) 54 D) 55 E) 56

9. I. $a \blacktriangle b = (a \bullet b) + 4b$
 II. $a \bullet b = (a * b) \cdot 5$
 III. $a * b = a + b$
 IV. $5 \blacktriangle 7 = ?$
 A) 44 B) 55 C) 66 D) 77 E) 88

10. I. $a \square b = \frac{a \circ b}{2}$
 II. $a \circ b = (a \blacksquare b) + 2a$
 III. $a \blacksquare b = a \cdot b$
 IV. $6 \square 3 = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

11. I. $a * b = (a \bullet b) \cdot 4$
 II. $a \bullet b = (a \star b) + ab$
 III. $a \star b = (2a + b)$
 IV. $4 * 5 = ?$
 A) 112 B) 122 C) 132 D) 142 E) 152

12. I. $a \P b = (a \bullet b) + 5b$
 II. $a \bullet b = (a \star b) - 3a^2$
 III. $a \star b = a^3 + b^2$
 IV. $4 \P 5 = ?$
 A) 36 B) 48 C) 52 D) 66 E) 70



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

1. I. $4 \clubsuit 5 = 20, 9$
 II. $3 \clubsuit 9 = 27, 12$
 III. $8 \clubsuit 7 = 56, 15$
 IV. $6 \clubsuit 2 = ?, ?$

A) 12, 8 B) 8, 12 C) 36, 4
 D) 4, 36 E) 8, 10

4. I. $5 * 9 = 15$
 II. $6 * 8 = 16$
 III. $7 * 6 = 14$
 IV. $10 * 9 = ?$

A) 19 B) 24 C) 26 D) 28 E) 30

2. I. $4 \bullet (5 \bullet 2) = 40$
 II. $1 \bullet (7 \bullet 10) = 70$
 III. $8 \bullet (4 \bullet 0) = 0$
 IV. $7 \bullet (3 \bullet 2) = ?$

A) 42 B) 45 C) 49 D) 52 E) 54

5. I. $7 \diamond 5 = 34$
 II. $3 \diamond 8 = 23$
 III. $9 \diamond 5 = 44$
 IV. $10 \diamond 2 = ?$

A) 21 B) 19 C) 17 D) 15 E) 13

3. I. $13 \heartsuit 25 = 35$
 II. $29 \heartsuit 18 = 44$
 III. $69 \heartsuit 11 = 77$
 IV. $103 \heartsuit 55 = ?$

A) 158 B) 157 C) 156 D) 155 E) 154

6. I. $(7 \blacktriangle 3) = 21$
 II. $(5 \blacktriangle 2) = 10$
 III. $(15 \blacksquare 5) = 3$
 IV. $(10 \blacksquare 2) = 5$
 V. $40 \blacksquare (4 \blacktriangle 2) = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

7. I. $3 \blacktriangle 3 = 27$
 II. $5 \blacktriangle 2 = 25$
 III. $11 \blacktriangle 2 = 121$
 IV. $4 \blacktriangle 3 = ?$
 A) 25 B) 36 C) 64 D) 81 E) 121

8. I. $97 \star 85 = 12$
 II. $105 \star 71 = 34$
 III. $84 \star 54 = 30$
 IV. $157 \star 82 = ?$
 A) 73 B) 74 C) 75 D) 76 E) 77

9. I. $5 \star 3 = 10$
 II. $8 \star 7 = 51$
 III. $9 \star 2 = 13$
 IV. $6 \star 2 = ?$
 A) 3 B) 5 C) 7 D) 9 E) 11

10. I. $2 \square 5 = 21$
 II. $9 \square 1 = 30$
 III. $8 \square 5 = 39$
 IV. $4 \square 3 = ?$
 A) 15 B) 18 C) 21 D) 24 E) 26

11. I. $10 \nabla 5 = 10$
 II. $8 \nabla 2 = 12$
 III. $9 \nabla 2 = 14$
 IV. $5 \nabla 3 = ?$
 A) 4 B) 5 C) 6 D) 7 E) 8

12. I. $5 \bullet 8 = 10, 13, 16$
 II. $7 \bullet 5 = 14, 12, 10$
 III. $3 \bullet 5 = 6, 8, 10$
 IV. $9 \bullet 1 = ?, ?, ?$
 A) 10, 10, 2 B) 18, 9, 1 C) 18, 10, 2
 D) 9, 10, 1 E) 10, 9, 2



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

1. I. $24 \bigcirc 4 = 7$
 II. $32 \bigcirc 8 = 10$
 III. $22 \bigcirc 34 = 14$
 IV. $45 \bigcirc 51 = ?$

A) 20 B) 22 C) 24 D) 26 E) 28

4. I. $5 \triangle (3 \triangle 9) = 17$
 II. $(8 \triangle 3) \triangle 6 = 17$
 III. $(6 \triangle 5) \triangle (7 \triangle 1) = 19$
 IV. $(5 \triangle 2) \triangle (10 \triangle 3) = ?$

A) 13 B) 15 C) 17 D) 20 E) 22

2. I. $8 \uparrow 4 = 20$
 II. $9 \uparrow 11 = 29$
 III. $3 \uparrow 15 = 21$
 IV. $20 \uparrow 8 = ?$

A) 40 B) 44 C) 46 D) 48 E) 50

5. I. $15 \star 10 = 5$
 II. $23 \star 26 = 7$
 III. $100 \star 21 = 11$
 IV. $99 \star 45 = ?$

A) 10 B) 12 C) 14 D) 15 E) 16

3. I. $25 \blacktriangle 49 = 12$
 II. $121 \blacktriangle 4 = 13$
 III. $144 \blacktriangle 1 = 13$
 IV. $81 \blacktriangle 169 = ?$

A) 21 B) 22 C) 23 D) 24 E) 25

6. I. $5 \blacktriangle (3 \bullet 2) = 11$
 II. $(5 \bullet 3) \blacktriangle 4 = 19$
 III. $(5 \blacktriangle 4) \bullet 2 = 18$
 IV. $(9 \blacktriangle 4) \bullet 2 = ?$

A) 26 B) 28 C) 30 D) 32 E) 34

7. I. $27 \oplus 9 = 12$
 II. $15 \oplus 21 = 12$
 III. $8 \oplus 16 = 8$
 IV. $14 \oplus 22 = ?$
 A) 11 B) 12 C) 13 D) 14 E) 15

8. I. $5 \otimes 3 = 28$
 II. $9 \otimes 9 = 90$
 III. $7 \otimes 11 = 60$
 IV. $11 \otimes 9 = ?$
 A) 121 B) 130 C) 132 D) 133 E) 135

9. I. $9 \heartsuit 7 = 56$
 II. $10 \heartsuit 12 = 108$
 III. $13 \heartsuit 7 = 84$
 IV. $15 \heartsuit 2 = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

10. I. $8 \circ 4 = 24$
 II. $15 \circ 3 = 30$
 III. $3 \circ 4 = 9$
 IV. $9 \circ 7 = ?$
 A) 54 B) 56 C) 58 D) 60 E) 62

11. I. $92 \clubsuit 28 = 128$
 II. $74 \clubsuit 35 = 78$
 III. $108 \clubsuit 81 = 54$
 IV. $95 \clubsuit 58 = ?$
 A) 70 B) 72 C) 74 D) 76 E) 78

12. I. $2 \heartsuit 5 = 13$
 II. $4 \heartsuit 10 = 74$
 III. $3 \heartsuit 2 = 29$
 IV. $5 \heartsuit 24 = ?$
 A) 146 B) 147 C) 148 D) 149 E) 150

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YANITLAR / ANSWERS

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

1. I. $10 \star 5 = 60$
 II. $6 \star 12 = 72$
 III. $8 \star 3 = 44$
 IV. $5 \star 9 = ?$
 A) 54 B) 56 C) 58 D) 60 E) 62

4. I. $15 \bullet 12 = 27$
 II. $8 \bullet 6 = 8$
 III. $2 \bullet 1 = 1$
 IV. $5 \bullet 1 = ?$
 A) 8 B) 16 C) 25 D) 49 E) 64

2. I. $15 \blacktriangle 13 = 14$
 II. $10 \blacktriangle 14 = 12$
 III. $25 \blacktriangle 5 = 15$
 IV. $18 \blacktriangle 12 = ?$
 A) 20 B) 18 C) 16 D) 15 E) 13

5. I. $4 \blacktriangle 5 = 15$
 II. $8 \blacktriangle 4 = 28$
 III. $7 \blacktriangle 3 = 18$
 IV. $3 \blacktriangle 5 = ?$
 A) 10 B) 15 C) 20 D) 25 E) 30

3. I. $36 \text{ ? } 12 = 60$
 II. $45 \text{ ? } 17 = 73$
 III. $26 \text{ ? } 19 = 33$
 IV. $53 \text{ ? } 24 = ?$
 A) 80 B) 82 C) 84 D) 86 E) 88

6. I. $3 \star 7 = 20$
 II. $4 \star 5 = 59$
 III. $5 \star 10 = 115$
 IV. $2 \star 6 = ?$
 A) 1 B) 2 C) 3 D) 4 E) 5

7. I. $9 \blacktriangle 2 = 49$

II. $5 \blacktriangle 1 = 16$

III. $7 \blacktriangle 4 = 9$

IV. $10 \blacktriangle 1 = ?$

- A) 36 B) 49 C) 64 D) 81 E) 121

8. I. $4 \blacktriangle 3 = 13$

II. $5 \blacktriangle 12 = 13$

III. $8 \blacktriangle 35 = 29$

IV. $9 \blacktriangle 61 = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

9. I. $5 \blacklozenge 4 = 21$

II. $8 \blacklozenge 3 = 20$

III. $9 \blacklozenge 2 = 17$

IV. $10 \blacklozenge 7 = ?$

- A) 28 B) 38 C) 48 D) 58 E) 68

10. I. $7 \blacksquare 3 = 22$

II. $6 \blacksquare 2 = 28$

III. $10 \blacksquare 4 = 36$

IV. $4 \blacksquare 1 = ?$

- A) 9 B) 15 C) 21 D) 32 E) 42

11. I. $15 \blacksquare 9 = 5, 3, 6$

II. $12 \blacksquare 6 = 4, 2, 6$

III. $18 \blacksquare 9 = 6, 3, 9$

IV. $21 \blacksquare 15 = ?$

- A) 7, 9, 6 B) 5, 7, 10 C) 7, 5, 6
-
- D) 8, 5, 7 E) 5, 8, 6

12. I. $10 * 3 = 16$

II. $5 * 8 = 21$

III. $4 * 7 = 18$

IV. $9 * 15 = ?$

- A) 25 B) 27 C) 33 D) 35 E) 39

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

1. I. $9 \blacktriangleright 5 = 32$

II. $12 \blacktriangleright 7 = 43$

III. $19 \blacktriangleright 4 = 61$

IV. $13 \blacktriangleright 15 = ?$

A) 52

B) 53

C) 54

D) 55

E) 56

4. I. $8 \blacktriangle 15 = 25$

II. $9 \blacktriangle 18 = 27$

III. $11 \blacktriangle 28 = 27$

IV. $20 \blacktriangle 80 = ?$

A) 10

B) 20

C) 30

D) 40

E) 50

2. I. $6 \blacktriangle 4 = 25$

II. $8 \blacktriangle 2 = 21$

III. $9 \blacktriangle 3 = 32$

IV. $a \blacktriangle b = ?$

A) $(a - 2)(b + 1)$

B) $(a - 1)(b + 1)$

C) $(a + 1)(b - 1)$

D) $a(b + 1)$

E) $(a + 1)b$

5. I. $15 \blacktriangle 4 = 1$

II. $8 \blacktriangle 9 = 73$

III. $121 \blacktriangle 12 = 23$

IV. $28 \blacktriangle 6 = ?$

A) 2

B) 4

C) 6

D) 8

E) 10

3. I. $15 * 4 = 121$

II. $19 * 12 = 49$

III. $25 * 13 = 144$

IV. $29 * 16 = ?$

A) 121

B) 144

C) 169

D) 216

E) 81

6. I. $5 * 9 = 44$

II. $4 * 5 = 39$

III. $7 * 12 = 199$

IV. $6 * 7 = ?$

A) 162

B) 163

C) 165

D) 166

E) 167

7. I. $8 \spadesuit 4 = 80$
 II. $12 \spadesuit 2 = 148$
 III. $7 \spadesuit 9 = 130$
 IV. $6 \spadesuit 8 = ?$
 A) 90 B) 95 C) 100 D) 105 E) 110

8. I. $3 * 5 = 7 \bullet 8$
 II. $5 * 4 = 18 \bullet 2$
 III. $2 * x = 4 \bullet 8$
 IV. $x = ?$
 A) 5 B) 6 C) 7 D) 8 E) 10

9. I. $3 \bullet 5 = 32$
 II. $2 \bullet 9 = 17$
 III. $4 \bullet 7 = 71$
 IV. $5 \bullet 10 = ?$
 A) 125 B) 135 C) 145 D) 155 E) 165

10. I. $15 \star 8 = 21$
 II. $21 \star 10 = 27$
 III. $30 \star 9 = 28$
 IV. $18 \star 20 = ?$
 A) 40 B) 42 C) 44 D) 46 E) 48

11. I. $11 \star 2 = 81$
 II. $15 \star 3 = 144$
 III. $29 \star 25 = 16$
 IV. $38 \star 25 = ?$
 A) 121 B) 144 C) 169 D) 196 E) 225

12. I. $13 * 12 = 5$
 II. $42 * 53 = 19$
 III. $38 * 37 = 15$
 IV. $41 * 44 = ?$
 A) 15 B) 16 C) 17 D) 18 E) 19



YANITLAR / ANSWERS

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

1. I. $5 \oplus 8 \rightarrow 20, -3$

II. $9 \oplus 6 \rightarrow 27, 3$

III. $12 \oplus 8 \rightarrow 48, 4$

IV. $6 \oplus 4 \rightarrow ?, ?$

A) 12, 2

B) 10, 2

C) 2, 12

D) 12, 4

E) 14, 3

2. I. $125 \blacksquare 8 = 10$

II. $64 \blacksquare 1 = 4$

III. $27 \blacksquare 8 = 6$

IV. $27 \blacksquare 125 = ?$

A) 9

B) 12

C) 15

D) 18

E) 21

3. I. $4 \heartsuit 4 = 12$

II. $5 \heartsuit 11 = 9$

III. $6 \heartsuit 9 = 15$

IV. $9 \heartsuit 21 = ?$

A) 10

B) 15

C) 20

D) 25

E) 30

4. I. $36 \circ 12 = 12$

II. $38 \circ 10 = 14$

III. $33 \circ 9 = 12$

IV. $49 \circ 15 = ?$

A) 13

B) 15

C) 17

D) 19

E) 21

5. I. $49 \bullet 16 = 28$

II. $121 \bullet 4 = 22$

III. $144 \bullet 9 = 36$

IV. $81 \bullet 36 = ?$

A) 50

B) 51

C) 52

D) 53

E) 54

6. I. $16 \checkmark 4 = 32$

II. $6 \checkmark 9 = 42$

III. $6 \checkmark 10 = 48$

IV. $9 \checkmark 5 = ?$

A) 27

B) 32

C) 35

D) 38

E) 42

7. I. $1 \star 8 = 12$

II. $3 \star 4 = 40$

III. $2 \star 5 = 21$

IV. $3 \star 9 = ?$

A) 45

B) 50

C) 55

D) 60

E) 65

8. I. $7 \star 5 = 24$

II. $6 \star 3 = 10$

III. $5 \star 6 = 20$

IV. $9 \star 4 = ?$

A) 24

B) 26

C) 29

D) 30

E) 32

9. I. $5 \star 8 = 29$

II. $6 \star 12 = 42$

III. $9 \star 8 = 33$

IV. $19 \star 11 = ?$

A) 50

B) 52

C) 54

D) 56

E) 58

10. I. $9 \diamond 8 = 17$

II. $8 \diamond 5 = \frac{13}{3}$

III. $7 \diamond 5 = 6$

IV. $15 \diamond 9 = ?$

A) 2

B) 3

C) 4

D) 5

E) 6

11. I. $\frac{2}{3} \blacktriangle \frac{5}{8} = \frac{16}{15}$

II. $\frac{8}{5} \blacktriangle \frac{2}{35} = 28$

III. $\frac{7}{9} \blacktriangle \frac{21}{81} = 3$

IV. $\frac{5}{9} \blacktriangle \frac{9}{8} = ?$

A) $\frac{39}{80}$ B) $\frac{40}{81}$ C) $\frac{41}{81}$ D) $\frac{42}{81}$ E) $\frac{43}{81}$

12. I. $24 \blacksquare 8 = 9$

II. $39 \blacksquare 13 = 9$

III. $24 \blacksquare 12 = 4$

IV. $36 \blacksquare 6 = ?$

A) 4

B) 16

C) 25

D) 36

E) 49

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

1. I. $* 532 = 13$
 II. $* 975 = 58$
 III. $* 251 = ?$
 A) 6 B) 7 C) 8 D) 9 E) 10

2. I. $\blacksquare 32 = 7$ $\bullet 51 = 5$
 II. $\blacksquare 55 = 20$ $\bullet 72 = 14$
 III. $\bullet (\blacksquare 73) = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

3. I. $\triangle 315 \rightarrow 151$
 II. $\triangle 725 \rightarrow 352$
 III. $\triangle (\triangle 925) = ?$
 A) 105 B) 95 C) 90 D) 85 E) 80

4. I. $\triangle 512 \rightarrow 8$
 II. $\blacktriangle 54 \rightarrow 20$
 III. $\blacktriangle (\triangle 325) = ?$
 A) 0 B) 1 C) 2 D) 3 E) 4

5. I. $\square 54 \rightarrow 9$
 II. $\blacksquare 5 \rightarrow 25$
 III. $\square (\blacksquare 11) \rightarrow ?$
 A) 2 B) 3 C) 4 D) 5 E) 6

6. I. $* 7512 = 87$
 II. $* 9504 = 99$
 III. $* 4341 = ?$
 A) 80 B) 81 C) 82 D) 83 E) 84

7. I. $\blacktriangle 122 \rightarrow 32$
 II. $\blacktriangle 531 \rightarrow 81$
 III. $\blacktriangle (\blacktriangle 598) \rightarrow ?$
 A) 55 B) 56 C) 57 D) 58 E) 59

8. I. $* 354 \rightarrow 15, 20$
 II. $* 923 \rightarrow 18, 6$
 III. $* 875 \rightarrow ?, ?$
 A) 15, 12 B) 12, 15 C) 58, 35
 D) 56, 35 E) 35, 56

9. I. $7 \heartsuit 8 = 87$
 II. $5 \heartsuit 8 = 67$
 III. $3 \heartsuit 9 = 48$
 IV. $2 \heartsuit 10 = ?$
 A) 31 B) 33 C) 35 D) 37 E) 39

10. I. $53 \circ 26 = 27$
 II. $28 \circ 15 = 21$
 III. $73 \circ 91 = 30$
 IV. $65 \circ 71 = ?$
 A) 31 B) 33 C) 35 D) 37 E) 39

11. I. $78 * \rightarrow 30$
 II. $53 * \rightarrow 5$
 III. $\blacktriangle 15 \rightarrow 5$
 IV. $\blacktriangle 21 \rightarrow 7$
 IV. $(\blacktriangle 297) * = ?$
 A) 0 B) 2 C) 4 D) 6 E) 8

12. I. $\blacktriangle 120 \rightarrow 108$
 II. $\square 59 \rightarrow 45$
 III. $\blacktriangle [\square (\square 98)] = ?$
 A) 0 B) 2 C) 4 D) 6 E) 8



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

1. I. $62 \checkmark 92 = 28$
 II. $83 \checkmark 52 = 15$
 III. $71 \checkmark 54 = 6$
 IV. $74 \checkmark 52 = ?$
 A) 8 B) 9 C) 10 D) 11 E) 12

2. I. $6432 \heartsuit = 18$
 II. $8563 \heartsuit = 22$
 III. $9227 \heartsuit = 4$
 IV. $7435 \heartsuit = ?$
 A) 12 B) 13 C) 14 D) 15 E) 16

3. I. $945 * 261 = 9$
 II. $871 * 342 = 7$
 III. $654 * 129 = 3$
 IV. $608 * 412 = ?$
 A) 6 B) 7 C) 8 D) 9 E) 10

4. I. $\star 645 = 19$
 II. $\star 983 = 15$
 III. $\star 653 = 12$
 IV. $\star 529 = ?$
 A) 23 B) 22 C) 21 D) 20 E) 19

5. I. $26 \bigcirc 36 = 8$
 II. $42 \bigcirc 18 = 6$
 III. $39 \bigcirc 27 = 12$
 IV. $49 \bigcirc 19 = ?$
 A) 12 B) 14 C) 16 D) 18 E) 20

6. I. $19 \clubsuit 27 = 24$
 II. $46 \clubsuit 22 = 48$
 III. $37 \clubsuit 29 = 36$
 IV. $71 \clubsuit 27 = ?$
 A) 56 B) 64 C) 72 D) 84 E) 96

7. I. $\blacklozenge 531 = 82$

II. $\blacklozenge 752 = 123$

III. $\blacklozenge 910 = 101$

IV. $\blacklozenge 431 = ?$

A) 76

B) 75

C) 74

D) 73

E) 72

8. I. $53 \star 75 = 82$

II. $63 \star 63 = 93$

III. $41 \star 95 = 54$

IV. $96 \star 71 = ?$

A) 154

B) 155

C) 156

D) 157

E) 158

9. I. $95 * 45 = 25$

II. $75 * 93 = 8$

III. $45 * 18 = 12$

IV. $36 * 15 = ?$

A) 10

B) 11

C) 12

D) 13

E) 14

10. I. $357 \blacksquare 813 = 27$

II. $123 \blacksquare 534 = 18$

III. $937 \blacksquare 875 = 39$

IV. $491 \blacksquare 710 = ?$

A) 20

B) 21

C) 22

D) 24

E) 26

11. I. $\heartsuit 7315 = 2$

II. $\heartsuit 8943 = 3$

III. $\heartsuit 1232 = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

12. I. $\pounds 835 \rightarrow 16$

II. $\pounds 541 \rightarrow 10$

III. $\pounds 541 \rightarrow 20$

IV. $\pounds 342 \rightarrow 24$

V. $\pounds (\pounds 729) = ?$

A) 4

B) 5

C) 6

D) 7

E) 8

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

1. I. $863 \times = 16$
 II. $956 \times = 30$
 III. $963 \times = ?$
 A) 15 B) 18 C) 21 D) 24 E) 26

2. I. $435 \blacktriangle 321 = 66$
 II. $723 \blacktriangle 521 = 52$
 III. $943 \blacktriangle 638 = 252$
 IV. $762 \blacktriangle 352 = ?$
 A) 114 B) 124 C) 116 D) 119 E) 128

4. I. $54 \blacktriangle 3 = 29$
 II. $51 \blacktriangle 4 = 21$
 III. $75 \blacktriangle 5 = 60$
 IV. $82 \blacktriangle 2 = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

5. I. $549 \triangledown 128 = 7$
 II. $876 \triangledown 452 = 10$
 III. $487 \triangledown 391 = 6$
 IV. $735 \triangledown 530 = ?$
 A) 6 B) 7 C) 8 D) 9 E) 10

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3. I. $\bullet 528 = 26$
 II. $\bullet 721 = 16$
 III. $\bullet 873 = ?$
 A) 55 B) 66 C) 77 D) 88 E) 99

6. I. $\Delta 72 = 25$ $\Delta 53 = 4$
 II. $\bullet 52 = 7$ $\bullet 32 = 5$
 III. $\Delta 95 - (\bullet 91 + \bullet 33) = ?$
 A) 0 B) 1 C) 2 D) 3 E) 4

7. I. $6432 * = 15$

II. $8426 * = 20$

III. $7369 * = 25$

IV. $8753 * = ?$

A) 22

B) 23

C) 24

D) 25

E) 26

8. I. $756 \square = 210$

II. $693 \square = 162$

III. $875 \square = 280$

IV. $943 \square = ?$

A) 96

B) 108

C) 120

D) 132

E) 144

9. I. $55 * 10 = 11$

II. $73 * 53 = 9$

III. $51 * 79 = 4$

IV. $61 * 70 = ?$

A) 9

B) 8

C) 7

D) 6

E) 5

10. I. $281 * = 8$

II. $372 * = 7$

III. $432 * = ?$

A) 4

B) 6

C) 8

D) 10

E) 12

11. I. $\blacktriangle 600 \rightarrow 300$

II. $\bullet 100 \rightarrow 400$

III. $\bullet (\blacktriangle 1500) = ?$

A) 1000

B) 2000

C) 3000

D) 4000

E) 5000

12. I. $542 \blacklozenge 5 = 35$

II. $398 \blacklozenge 12 = 204$

III. $567 \blacklozenge 21 = 189$

IV. $549 \blacklozenge 120 = ?$

A) 20

B) 40

C) 60

D) 80

E) 100

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

1. I. $\blacktriangle 5124 = 40$
 II. $\blacktriangle 3241 = 24$
 III. $(\blacktriangle 5253) - (\blacktriangle 3252) = ?$
 A) 30 B) 50 C) 70 D) 90 E) 110

4. I. $54 \Rightarrow 23 = 56$
 II. $62 \Rightarrow 14 = 39$
 III. $53 \Rightarrow 16 = 15$
 IV. $62 \Rightarrow 41 = ?$
 A) 38 B) 39 C) 40 D) 41 E) 42

2. I. $12 * 5 = 7$
 II. $5 * 9 = 4$
 III. $13 * 7 = 0$
 IV. $9 * 25 = ?$
 A) 8 B) 9 C) 10 D) 11 E) 12

5. I. $5 \blacksquare 5 = 15$
 II. $6 \blacksquare 7 = 29$
 III. $9 \blacksquare 2 = 7$
 IV. $8 \blacksquare 7 = ?$
 A) 40 B) 41 C) 42 D) 43 E) 45

3. I. $\blacktriangle 64 \rightarrow 20$
 II. $\blacktriangle 54 \rightarrow 9$
 III. $(\blacktriangle 87) + (\blacktriangle 53) - (\blacktriangle 42) = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

6. I. $45 \blacktriangle 13 = 17$
 II. $92 \blacktriangle 25 = 8$
 III. $73 \blacktriangle 11 = 20$
 IV. $84 \blacktriangle 56 = ?$
 A) 0 B) 1 C) 2 D) 3 E) 4

7. I. $8952 \div = 23$
 II. $1238 \div = 13$
 III. $5761 \div = ?$
 A) 19 B) 18 C) 17 D) 16 E) 15

8. I. $\triangle 52 = 9$ $\bigcirc 8 = 4$
 II. $\triangle 34 = 11$ $\bigcirc 12 = 6$
 III. $\bigcirc (\triangle 53) = ?$
 A) 7 B) 6 C) 5 D) 4 E) 3

9. I. $\div 4653 = 39$
 II. $\div 9871 = 79$
 III. $\div 6457 = 59$
 IV. $\div 3692 = ?$
 A) 28 B) 30 C) 32 D) 34 E) 36

10. I. $\square 9654 = 159$
 II. $\square 3817 = 118$
 III. $\square 6984 = 1512$
 IV. $\square 3757 = ?$
 A) 19 B) 42 C) 102 D) 942 E) 1012

11. I. $\blacktriangle 985 = 112$
 II. $\blacktriangle 364 = 42$
 III. $\blacktriangle 297 = 81$
 IV. $\blacktriangle 653 = ?$
 A) 45 B) 44 C) 43 D) 42 E) 41

12. I. $64 \boxtimes 32 = 18$
 II. $39 \boxtimes 61 = 21$
 III. $47 \boxtimes 73 = 7$
 IV. $84 \boxtimes 61 = ?$
 A) 26 B) 25 C) 24 D) 23 E) 22



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

1. I. $\blacktriangle 74 \rightarrow 11$
 II. $\bigcirc 54 \rightarrow 20$
 III. $\blacktriangle (\bigcirc 93) = ?$
 A) 3 B) 5 C) 7 D) 9 E) 11

4. I. $8 \div 4 = 29$
 II. $5 \div 4 = 17$
 III. $6 \div 5 = 27$
 IV. $7 \div 4 = ?$
 A) 25 B) 28 C) 30 D) 32 E) 34

2. I. $\heartsuit 424 = 38$
 II. $\heartsuit 649 = 55$
 III. $\heartsuit 342 = 32$
 IV. $\heartsuit 529 = ?$
 A) 37 B) 39 C) 41 D) 43 E) 45

5. I. $12 \times 24 = 18$
 II. $19 \times 13 = 16$
 III. $13 \times 15 = 14$
 IV. $18 \times 12 = ?$
 A) 10 B) 15 C) 20 D) 25 E) 30

3. I. $81 \div 2 = 18$
 II. $121 \div 5 = 55$
 III. $36 \div 9 = 54$
 IV. $25 \div 12 = ?$
 A) 20 B) 40 C) 60 D) 80 E) 100

6. I. $\clubsuit 684 = 9$
 II. $\clubsuit 974 = 10$
 III. $\clubsuit 538 = 8$
 IV. $\clubsuit 284 = ?$
 A) 3 B) 4 C) 5 D) 6 E) 7

7. I. $5 * 2 = 23$
 II. $6 * 3 = 33$
 III. $7 * 4 = 45$
 IV. $9 * 5 = ?$
 A) 70 B) 72 C) 74 D) 76 E) 78

8. I. $21 \div 43 = 21$
 II. $68 \div 52 = 98$
 III. $42 \div 43 = 42$
 IV. $69 \div 51 = ?$
 A) 84 B) 86 C) 88 D) 90 E) 92

9. I. $3 \star 9 = 18$
 II. $4 \star 14 = 50$
 III. $5 \star 38 = 87$
 IV. $7 \star 215 = ?$
 A) 120 B) 122 C) 124 D) 126 E) 128

10. I. $15 \diamond 2 = 20$
 II. $5 \diamond 12 = 50$
 III. $8 \diamond 4 = 22$
 IV. $5 \diamond 4 = ?$
 A) 0 B) 5 C) 10 D) 15 E) 20

11. I. $5 > 2 = 27$
 II. $6 > 6 = 42$
 III. $7 > 3 = 52$
 IV. $9 > 9 = ?$
 A) 50 B) 60 C) 70 D) 80 E) 90

12. I. $* 25 \rightarrow 5$
 II. $\blacktriangle 10 \rightarrow 30$
 III. $\blacktriangle (* 49) \rightarrow ?$
 A) 21 B) 22 C) 23 D) 24 E) 25



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

1. I. $8 \oplus 5 = 37$
 II. $5 \oplus 9 = 29$
 III. $4 \oplus 8 = 24$
 IV. $9 \oplus 1 = ?$
 A) 35 B) 37 C) 39 D) 41 E) 43

4. I. $\blacktriangle 25 \rightarrow 5$
 II. $120 \blacksquare \rightarrow 100$
 III. $\blacktriangle (56 \blacksquare) = ?$
 A) 4 B) 6 C) 8 D) 10 E) 12

2. I. $42 \square 68 = 52$
 II. $16 \square 58 = 84$
 III. $24 \square 96 = 144$
 IV. $46 \square 86 = ?$
 A) 70 B) 80 C) 90 D) 100 E) 110

5. I. $4 \square 9 = 9$
 II. $8 \square 2 = 4$
 III. $16 \square 9 = 36$
 IV. $19 \square 8 = ?$
 A) 30 B) 32 C) 34 D) 36 E) 38

3. I. $5 * 4 = 2$
 II. $4 * 1 = 10$
 III. $5 * 2 = 10$
 IV. $6 * 3 = ?$
 A) 10 B) 16 C) 25 D) 26 E) 28

6. I. $\blacktriangle 51 = 25$
 II. $\blacktriangle 23 = 36$
 III. $\blacktriangle 81 = ?$
 A) 25 B) 36 C) 49 D) 64 E) 81

7. I. $\blacktriangleright 7 = 2114$
 II. $\blacktriangleright 12 = 3624$
 III. $\blacktriangleright 9 = 2718$
 IV. $\blacktriangleright 5 = ?$
 A) 1015 B) 1510 C) 1525 D) 2515 E) 3015

8. I. $4 \blacktriangle 4 = 12$
 II. $5 \blacktriangle 3 = 17$
 III. $7 \blacktriangle 8 = 20$
 IV. $9 \blacktriangle 10 = ?$
 A) 22 B) 24 C) 26 D) 28 E) 30

9. I. $12 \div 5 = 22$
 II. $13 \div 15 = 43$
 III. $22 \div 13 = 48$
 IV. $28 \div 17 = ?$
 A) 60 B) 61 C) 62 D) 63 E) 64

10. I. $159 \blacktriangle \rightarrow 915$
 II. $235 \bullet \rightarrow 65$
 III. $(358 \bullet) \blacktriangle = ?$
 A) 851 B) 835 C) 815 D) 538 E) 583

11. I. $8 \bullet 10 = 9$
 II. $10 \bullet 2 = 6$
 III. $7 \bullet 9 = 8$
 IV. $5 \bullet 15 = ?$
 A) 11 B) 10 C) 9 D) 8 E) 7

12. I. $12 * 33 = 11$
 II. $75 * 15 = 40$
 III. $83 * 24 = 32$
 IV. $93 * 27 = ?$
 A) 40 B) 41 C) 42 D) 43 E) 44



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

1. I. $64 \blacktriangle \rightarrow 24$
 II. $15 \blacktriangle \rightarrow 5$
 III. $84 \blacktriangle \rightarrow ?$
 A) 5 B) 6 C) 7 D) 8 E) 9

2. I. $* 55 = 5$
 II. $* 84 = 6$
 III. $* 51 = 3$
 IV. $* 80 = ?$
 A) 7 B) 6 C) 5 D) 4 E) 3

3. I. $6 = 36, 12, 18$
 II. $7 = 49, 14, 21$
 III. $9 = ?, ?, ?$
 A) 81, 27, 18
 B) 27, 18, 81
 C) 81, 18, 27
 D) 27, 81, 18
 E) 18, 9, 81

4. I. $15 * 12 = 3$
 II. $31 * 33 = 4$
 III. $115 * 101 = 6$
 IV. $93 * 32 = ?$
 A) 1 B) 2 C) 3 D) 4 E) 5

5. I. $6 \blacksquare 8 \rightarrow 7$
 II. $5 \blacksquare 21 \rightarrow 13$
 III. $45 \blacksquare 43 \rightarrow ?$
 A) 22 B) 44 C) 66 D) 88 E) 121

6. I. $4 \Leftrightarrow 5 = 29$
 II. $10 \Leftrightarrow 3 = 19$
 III. $8 \Leftrightarrow 4 = 24$
 IV. $10 \Leftrightarrow 9 = ?$
 A) 81 B) 91 C) 101 D) 111 E) 121

7. I. $(9 \blacktriangle 3) \bullet 3 = 9$
 II. $(4 \bullet 2) \blacktriangle 5 = 10$
 III. $(6 \blacktriangle 6) \bullet 12 = 3$
 IV. $(90 \bullet 10) \blacktriangle 4 = ?$

A) 25 B) 36 C) 49 D) 64 E) 81

8. I. $4 \blacktriangle 3 = 5$
 II. $12 \blacktriangle 5 = 13$
 III. $(24 \blacktriangle 7) + (8 * 10) = ?$

A) 105 B) 110 C) 115 D) 120 E) 125

9. I. $24 \star 22 = 10$
 II. $4 \star 12 = 7$
 III. $3 \star 6 = 9$
 IV. $13 \star 12 = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

10. I. $5 \star 8 = 34$
 II. $7 \star 4 = 26$
 III. $3 \star 12 = 42$
 IV. $5 \star 9 = ?$

A) 27 B) 37 C) 47 D) 57 E) 67

11. I. $\blacktriangle 825 \rightarrow 16, 10$
 II. $\blacktriangle 391 \rightarrow 27, 9$
 III. $\blacktriangle 675 \rightarrow ?, ?$

A) 42, 13 B) 35, 15 C) 42, 35
 D) 35, 42 E) 36, 25

12. I. $75 \heartsuit 80 = 10$
 II. $83 \heartsuit 97 = 7$
 III. $82 \heartsuit 20 = 8$
 IV. $55 \heartsuit 62 = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

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

1. I. $5 \star (5 \blacktriangle 2) = 15$

II. $(9 \blacktriangle 4) \star 7 = 35$

III. $(9 \blacktriangle 8) \star (11 \blacktriangle 1) = 10$

IV. $(7 \star 4) \blacktriangle (6 \star 3) = ?$

A) 10

B) 20

C) 21

D) 24

E) 30

2. I. $125 \Delta 113 = 3$

II. $512 \Delta 150 = 2$

III. $934 \Delta 518 = 2$

IV. $118 \Delta 511 = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

3. I. $5 \star 3 = 243$

II. $3 \star 5 = 125$

III. $7 \star 2 = 128$

IV. $3 \star 4 = ?$

A) 4

B) 8

C) 16

D) 25

E) 64

4. I. $7 \ast 5 = 39$

II. $5 \ast 9 = 91$

III. $4 \ast 6 = 44$

IV. $12 \ast 7 = ?$

A) 70

B) 71

C) 73

D) 75

E) 77

5. I. $5 \bullet 4 = 81$

II. $7 \bullet 4 = 121$

III. $9 \bullet 4 = 169$

IV. $7 \bullet 7 = ?$

A) 121

B) 144

C) 169

D) 196

E) 216

6. I. $24 \times 6 = 15$

II. $18 \times 14 = 16$

III. $19 \times 13 = 16$

IV. $7 \times 29 = ?$

A) 12

B) 18

C) 24

D) 30

E) 36

7. I. ■ $6953 = 39$

II. ■ $5792 = 17$

III. ■ $6843 = 36$

IV. ■ $5967 = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

8. I. $24 * 12 = 14$

II. $18 * 3 = 17$

III. $47 * 21 = 28$

IV. $23 * 6 = ?$

A) 15

B) 16

C) 17

D) 18

E) 19

9. I. $9 \blacktriangle 6 = 20$

II. $10 \blacktriangle 7 = 22$

III. $3 \blacktriangle 22 = 30$

IV. $13 \blacktriangle 5 = ?$

A) 21

B) 22

C) 23

D) 24

E) 25

10. I. □ $5 = 21$

II. □ $6 = 25$

III. □ $4 = 17$

IV. □ $9 = ?$

A) 25

B) 36

C) 37

D) 47

E) 48

11. I. $8 \blacktriangle (5 \square 3) = 10$

II. $(9 \square 8) \blacktriangle 5 = 6$

III. $(11 \blacktriangle 4) \square 8 = 7$

IV. $(15 \square 11) \blacktriangle 9 = ?$

A) 11

B) 12

C) 13

D) 14

E) 15

12. I. $10 \square 3 = 19$

II. $5 \square 8 = 29$

III. $4 \square 7 = 25$

IV. $9 \square 15 = ?$

A) 52

B) 53

C) 54

D) 55

E) 56

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

1. I. $9 \oplus 4 = 25$
 II. $15 \oplus 5 = 40$
 III. $12 \oplus 6 = 48$
 IV. $21 \oplus 8 = ?$
 A) 70 B) 75 C) 80 D) 85 E) 90

2. I. $13 * 15 = 54$
 II. $12 * 10 = 46$
 III. $15 * 18 = 63$
 IV. $19 * 7 = ?$
 A) 36 B) 64 C) 81 D) 121 E) 144

3. I. $90 \times 18 = 5$
 II. $104 \times 26 = 4$
 III. $84 \times 28 = 3$
 IV. $114 \times 19 = ?$
 A) 2 B) 3 C) 4 D) 5 E) 6

4. I. $153 \blacksquare \rightarrow 5, 15$
 II. $924 \blacksquare \rightarrow 18, 8$
 III. $736 \blacksquare \rightarrow ?, ?$
 A) 10, 8 B) 18, 21 C) 8, 10
 D) 15, 12 E) 21, 18

5. I. $4 \boxtimes 8 = 5$
 II. $7 \boxtimes 9 = 9$
 III. $12 \boxtimes 4 = 12$
 IV. $15 \boxtimes 5 = ?$
 A) 10 B) 12 C) 14 D) 16 E) 18

6. I. $\triangleright 5 = 125$
 II. $\triangleright 2 = 8$
 III. $\bullet 5 = 10$
 IV. $\bullet 3 = 6$
 V. $\triangleright(\bullet 8) = ?$
 A) 2^9 B) 2^{10} C) 2^{11} D) 2^{12} E) 2^{13}

7. I. $5 \bullet 3 = 16$
 II. $9 \bullet 2 = 22$
 III. $13 \bullet 4 = 34$
 IV. $5 \bullet 8 = ?$
 A) 22 B) 24 C) 26 D) 28 E) 30

8. I. $8 \nabla 64 = 6$
 II. $125 \nabla 216 = 11$
 III. $1 \nabla 343 = 8$
 IV. $729 \nabla 8 = ?$
 A) 10 B) 11 C) 12 D) 13 E) 14

9. I. $5 \rightarrow 8 = 53$
 II. $4 \rightarrow 5 = 29$
 III. $9 \rightarrow 2 = 29$
 IV. $7 \rightarrow 4 = ?$
 A) 34 B) 35 C) 36 D) 38 E) 39

10. I. $32 \star 10 = 11$
 II. $43 \star 13 = 15$
 III. $55 \star 25 = 15$
 IV. $96 \star 42 = ?$
 A) 23 B) 25 C) 27 D) 29 E) 31

11. I. $9 \square 5 = 76$
 II. $6 \square 6 = 30$
 III. $7 \square 12 = 37$
 IV. $8 \square 28 = ?$
 A) 25 B) 27 C) 29 D) 32 E) 36

12. I. $8 \text{ ‡ } 6 = 14$
 II. $9 \text{ ‡ } 5 = 28$
 III. $4 \text{ ‡ } 2 = 6$
 IV. $11 \text{ ‡ } 5 = ?$
 A) 40 B) 42 C) 44 D) 46 E) 48

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

BÖLÜM 5 CHAPTER

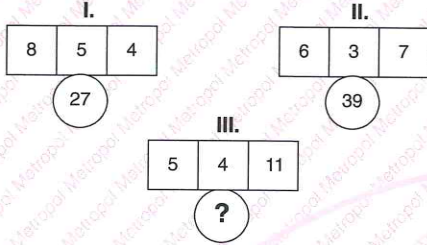
SAYI ŞEKİL İLİŞKİLERİ NUMBER FIGURE RELATIONS

Bölüm / Chapter 5

Çok Şekilli Sayı Şekil İlişkileri / Multiple Figure Number Figure Relations

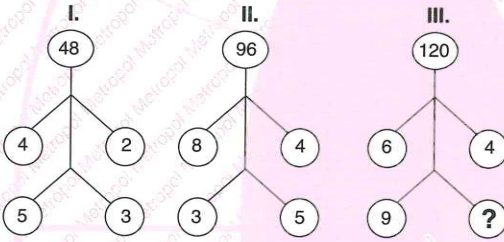
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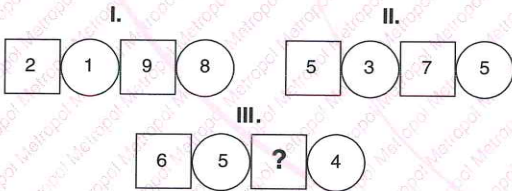
- A) 50
- B) 51
- C) 52
- D) 53
- E) 54

2.



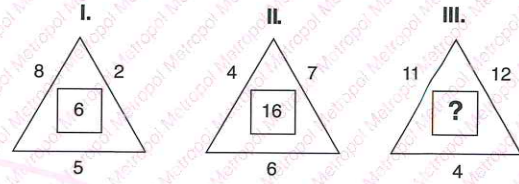
- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

3.



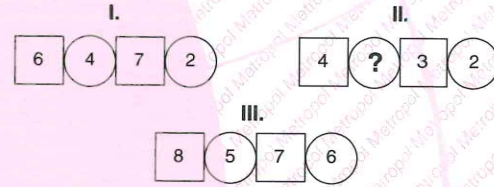
- A) 8
- B) 9
- C) 10
- D) 11
- E) 12

4.



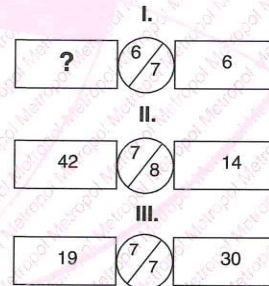
- A) 124
- B) 125
- C) 126
- D) 127
- E) 128

5.



- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

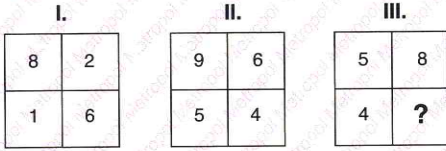
6.



- A) 25
- B) 36
- C) 49
- D) 64
- E) 81

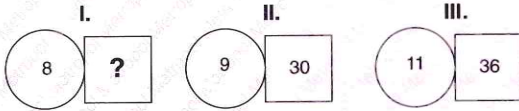
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7.



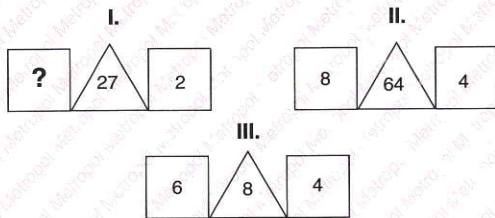
- A) 0
B) 1
C) 2
D) 3
E) 4

8.



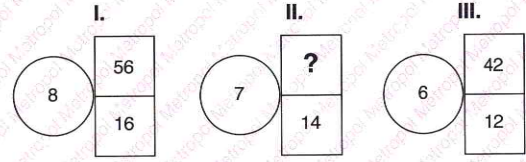
- A) 25
B) 27
C) 30
D) 32
E) 33

9.



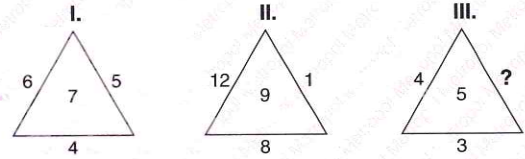
- A) 1
B) 2
C) 3
D) 4
E) 5

10.



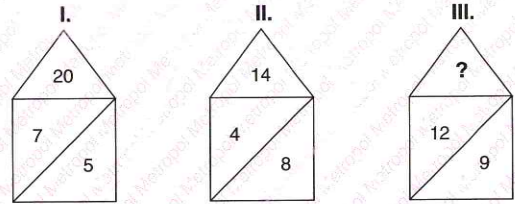
- A) 36
B) 49
C) 64
D) 81
E) 121

11.



- A) 5
B) 4
C) 3
D) 2
E) 1

12.

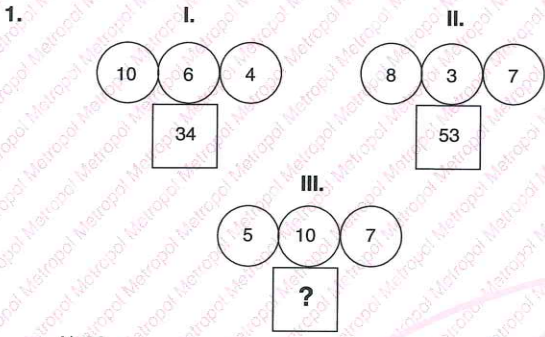


- A) 70
B) 77
C) 80
D) 88
E) 108

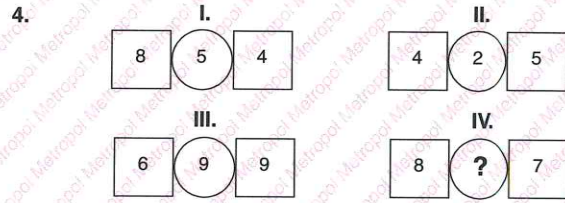


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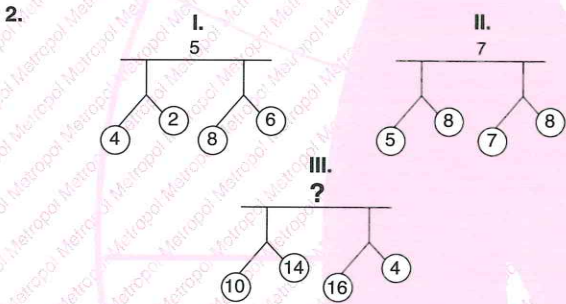
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2	C	4	A	6	B	8	B	10	B	12	C



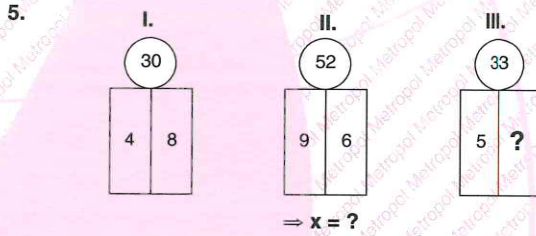
- A) 20
B) 22
C) 25
D) 27
E) 28



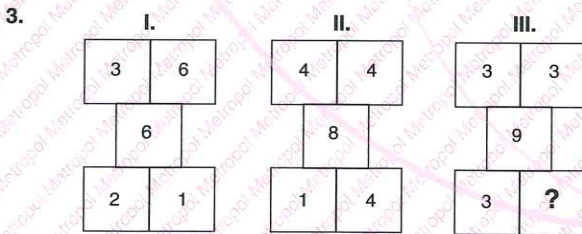
- A) 10
B) 11
C) 12
D) 13
E) 14



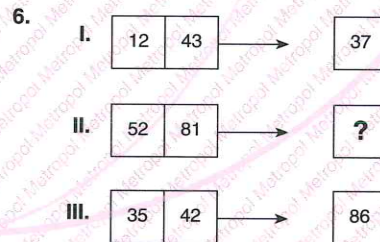
- A) 11
B) 12
C) 13
D) 14
E) 15



- A) 5
B) 6
C) 7
D) 8
E) 9

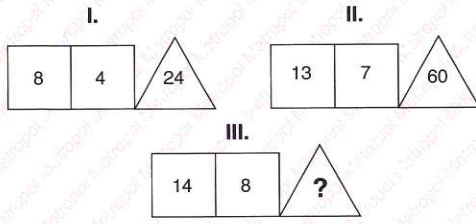


- A) 1
B) 2
C) 3
D) 4
E) 5



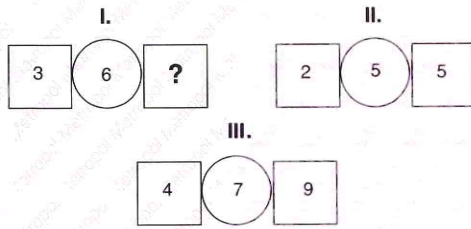
- A) 78
B) 79
C) 80
D) 81
E) 82

7.



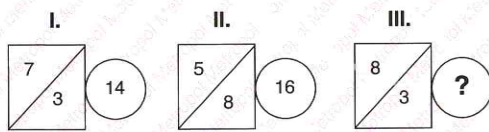
- A) 62
B) 64
C) 66
D) 68
E) 70

8.



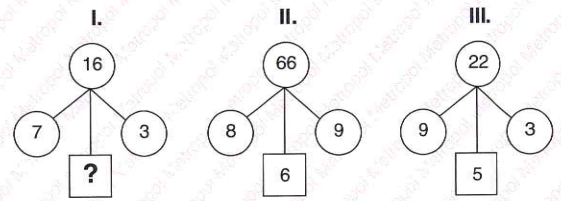
- A) 1
B) 2
C) 5
D) 6
E) 8

9.



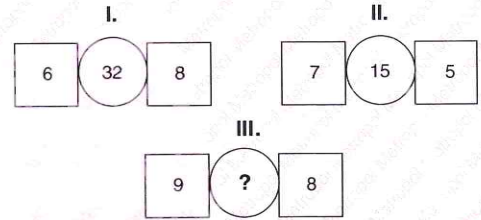
- A) 15
B) 16
C) 17
D) 18
E) 19

10.



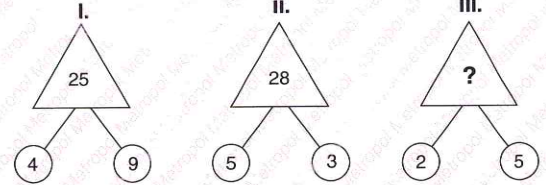
- A) 5
B) 7
C) 9
D) 11
E) 13

11.



- A) 14
B) 28
C) 36
D) 48
E) 54

12.

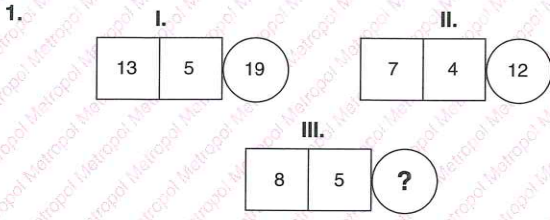


- A) 5
B) 9
C) 15
D) 25
E) 52

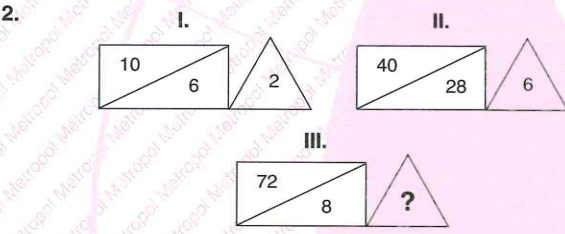


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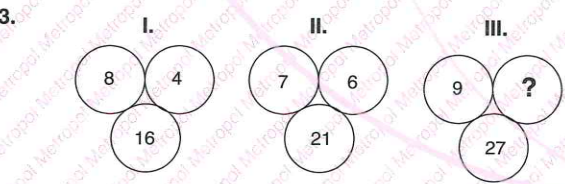
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2	A	4	B	6	B	8	D	10	A	12	B



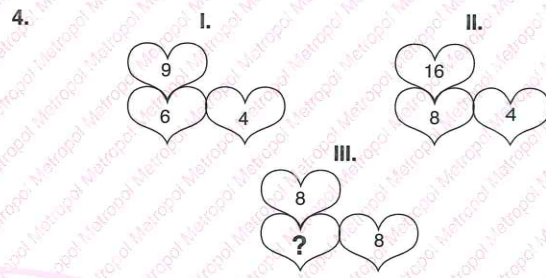
- A) 10
B) 11
C) 12
D) 13
E) 14



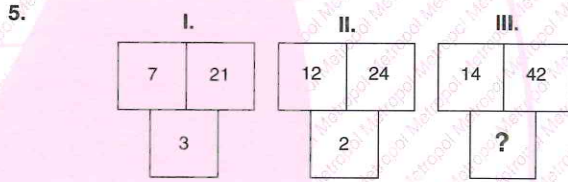
- A) 32
B) 34
C) 36
D) 38
E) 40



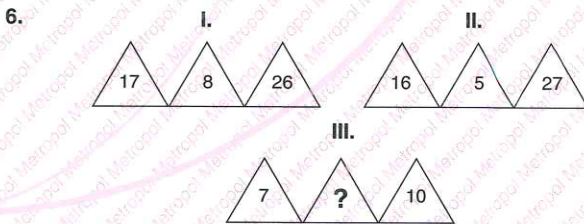
- A) 5
B) 6
C) 7
D) 8
E) 9



- A) 7
B) 8
C) 9
D) 10
E) 11

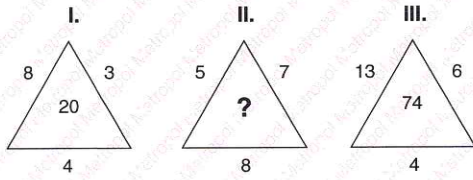


- A) 2
B) 3
C) 4
D) 5
E) 6



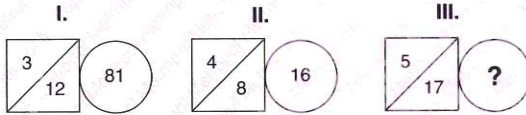
- A) 4
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C) 6
D) 7
E) 8

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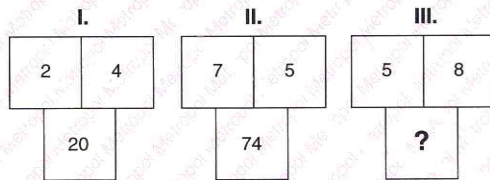
- A) 24
B) 25
C) 26
D) 27
E) 28

8.



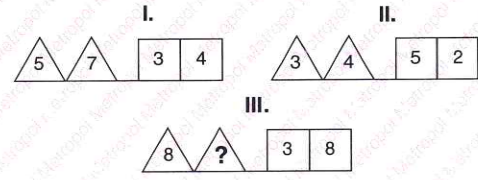
- A) 100
B) 121
C) 144
D) 169
E) 196

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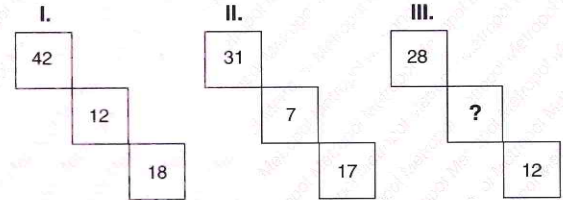
- A) 87
B) 88
C) 89
D) 90
E) 91

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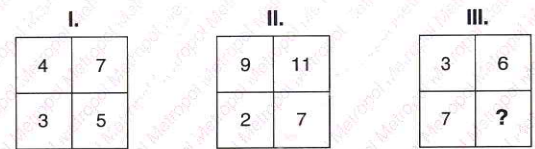
- A) 15
B) 16
C) 17
D) 18
E) 19

11.



- A) 8
B) 9
C) 10
D) 11
E) 12

12.

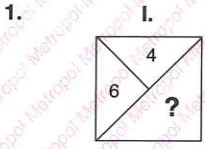


- A) 11
B) 12
C) 13
D) 14
E) 15

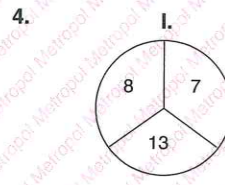
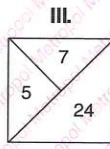
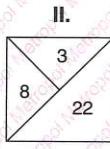


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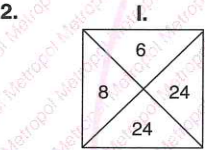
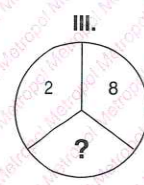
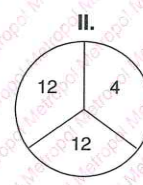
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2	A	4	B	6	A	8	C	10	B	12	E



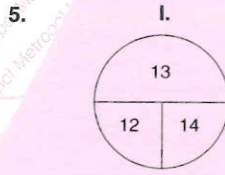
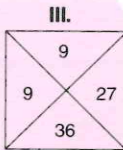
- A) 20
B) 21
C) 22
D) 23
E) 24



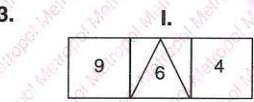
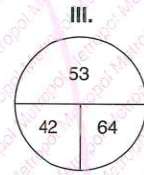
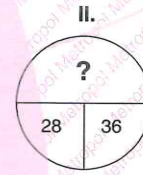
- A) 14
B) 15
C) 16
D) 17
E) 18



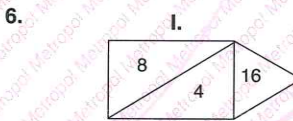
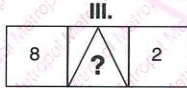
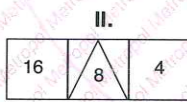
- A) 6
B) 9
C) 10
D) 12
E) 14



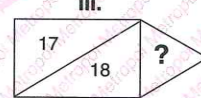
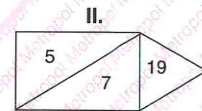
- A) 30
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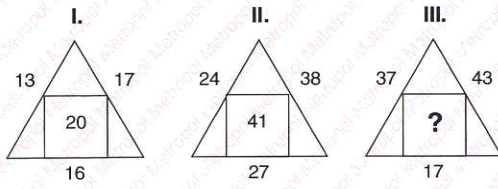
- A) 1
B) 2
C) 3
D) 4
E) 5



- A) 48
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E) 53

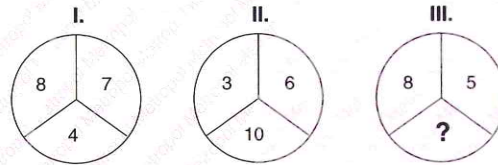


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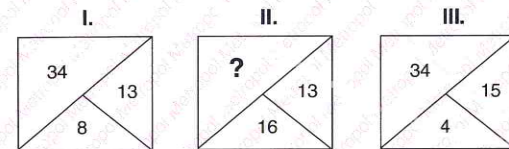
- A) 19
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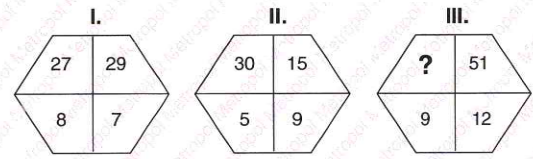
- A) 0
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D) 7
E) 9

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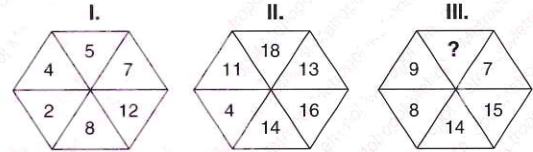
- A) 40
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D) 43
E) 44

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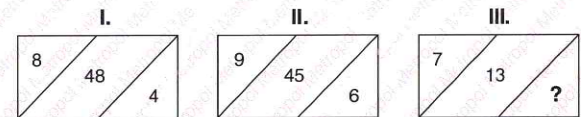
- A) 57
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C) 59
D) 60
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11.



- A) 10
B) 9
C) 8
D) 7
E) 5

12.

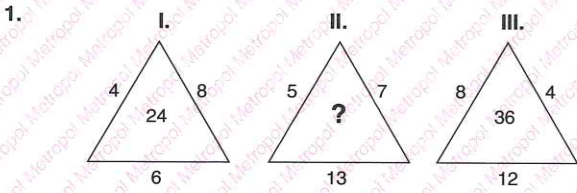


- A) 5
B) 6
C) 7
D) 8
E) 9

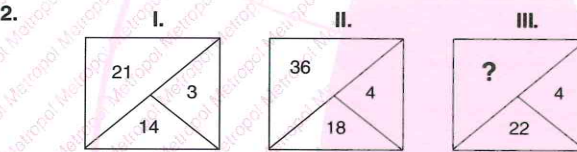


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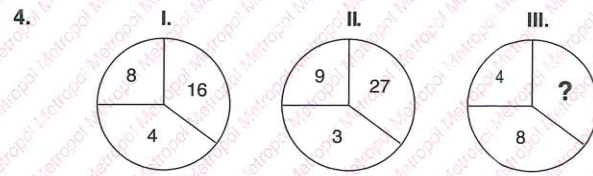
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2	A	4	E	6	E	8	C	10	A	12	B



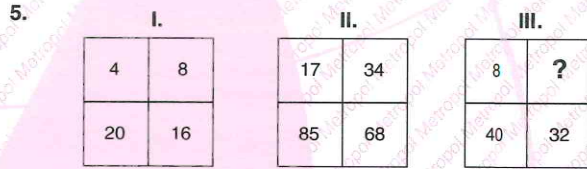
- A) 34
B) 36
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D) 40
E) 42



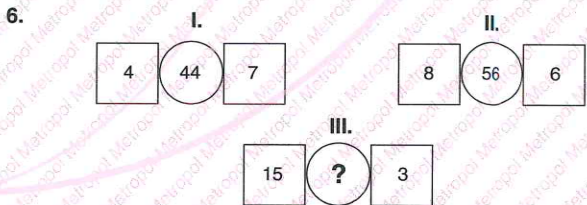
- A) 40
B) 41
C) 42
D) 43
E) 44



- A) 1
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C) 3
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E) 5

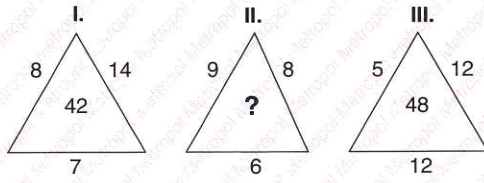


- A) 14
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E) 18



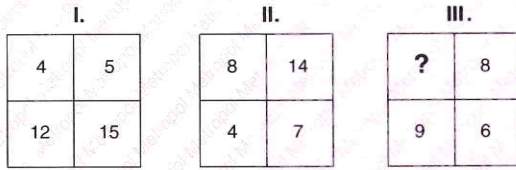
- A) 70
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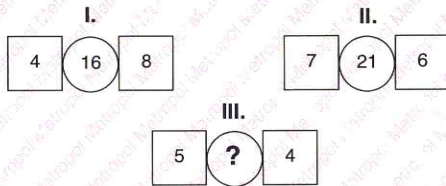
- A) 42
B) 43
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D) 45
E) 46

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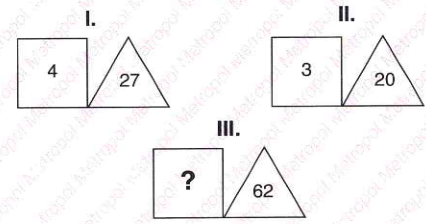
- A) 10
B) 11
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D) 13
E) 14

9.



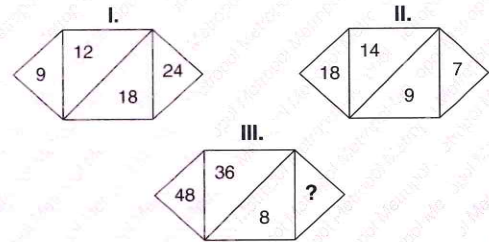
- A) 7
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D) 10
E) 11

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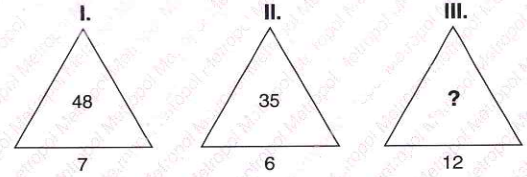
- A) 7
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C) 9
D) 10
E) 11

11.



- A) 6
B) 8
C) 9
D) 10
E) 11

12.



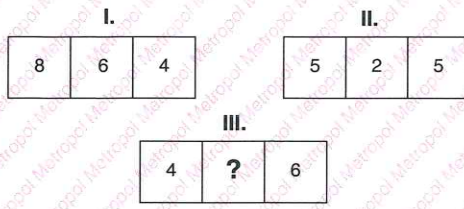
- A) 144
B) 143
C) 142
D) 141
E) 140



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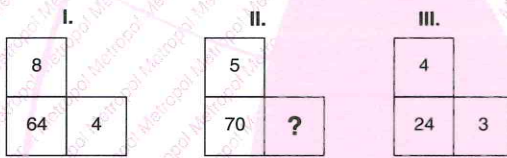
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2	E	4	B	6	C	8	C	10	C	12	B

1.



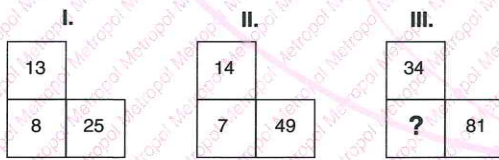
- A) 0
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C) 2
D) 3
E) 4

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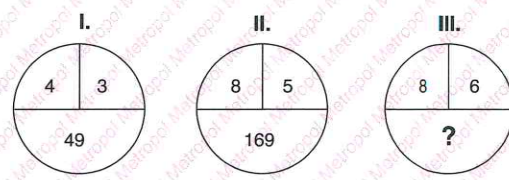
- A) 4
B) 5
C) 6
D) 7
E) 8

3.



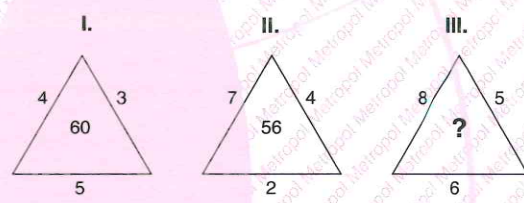
- A) 20
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E) 26

4.



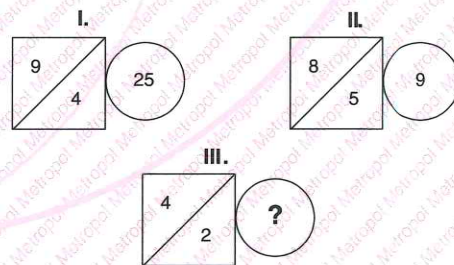
- A) 190
B) 192
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D) 196
E) 198

5.



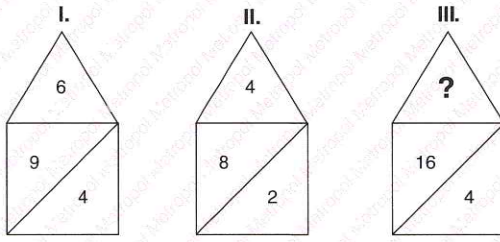
- A) 230
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D) 250
E) 260

6.



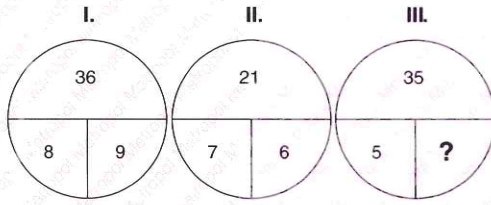
- A) 1
B) 2
C) 3
D) 4
E) 5

7.



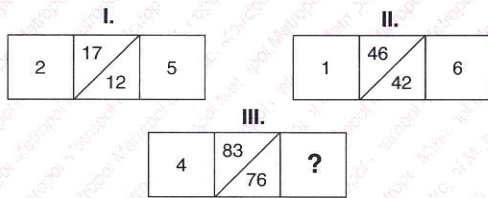
- A) 7
B) 8
C) 9
D) 10
E) 11

8.



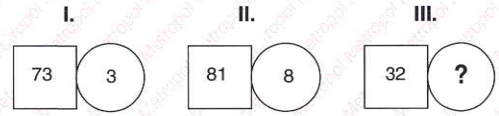
- A) 10
B) 11
C) 12
D) 14
E) 16

9.



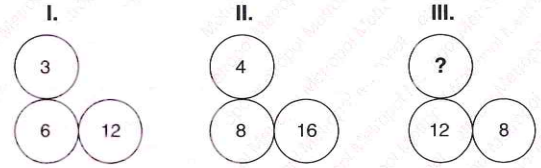
- A) 5
B) 6
C) 7
D) 8
E) 9

10.



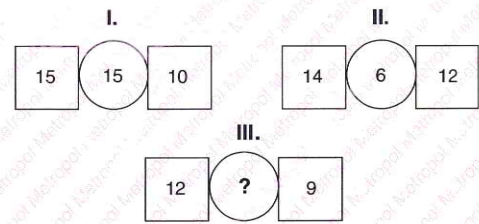
- A) 2
B) 3
C) 4
D) 5
E) 6

11.



- A) 12
B) 18
C) 24
D) 32
E) 36

12.



- A) 6
B) 8
C) 9
D) 12
E) 18

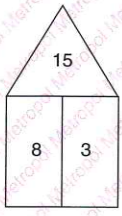


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1	B	3	D	5	B	7	B	9	E	11	B
2	D	4	D	6	D	8	D	10	E	12	C

1.

I.



II.



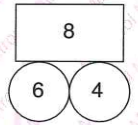
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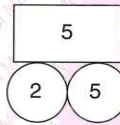
- A) 12
B) 14
C) 16
D) 18
E) 20

2.

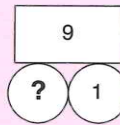
I.



II.



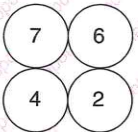
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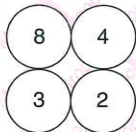
- A) 3
B) 5
C) 8
D) 9
E) 12

3.

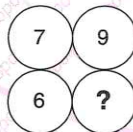
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II.



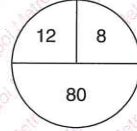
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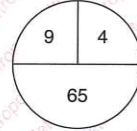
- A) 3
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C) 6
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E) 8

4.

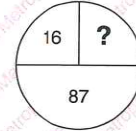
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II.



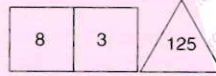
III.



- A) 10
B) 11
C) 12
D) 13
E) 14

5.

I.



II.



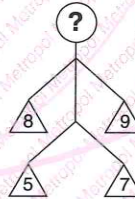
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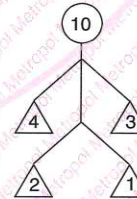
- A) 3
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E) 7

6.

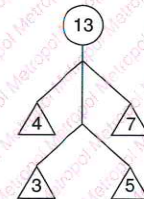
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II.

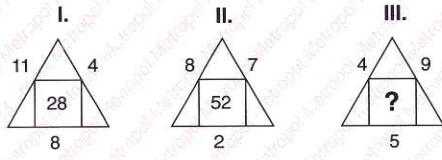


III.



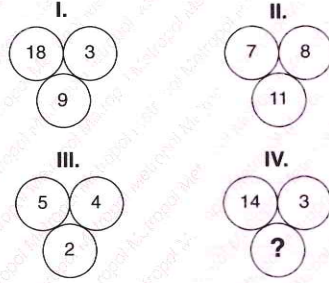
- A) 34
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E) 43

7.



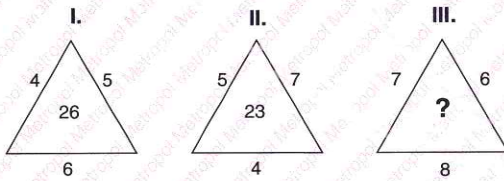
- A) 24
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D) 27
E) 28

8.



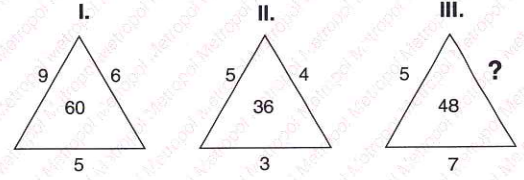
- A) 4
B) 6
C) 9
D) 10
E) 12

9.



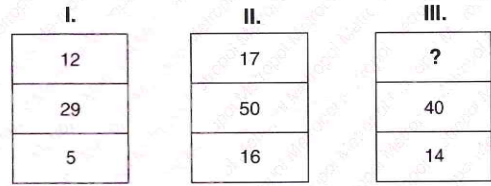
- A) 48
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D) 42
E) 41

10.



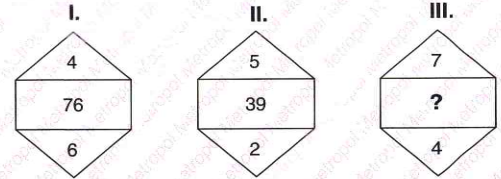
- A) 4
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C) 8
D) 10
E) 12

11.



- A) 11
B) 12
C) 13
D) 26
E) 28

12.



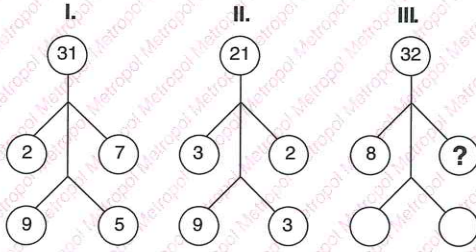
- A) 99
B) 97
C) 93
D) 90
E) 85



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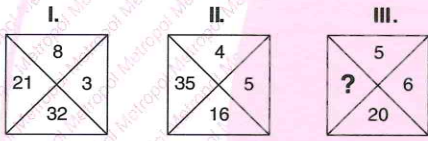
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2	C	4	D	6	B	8	B	10	A	12	C

1.



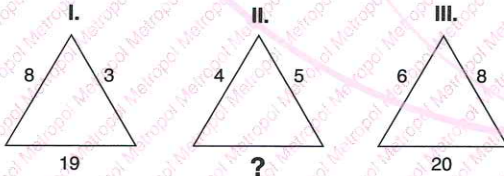
- A) 1
B) 2
C) 3
D) 5
E) 7

2.



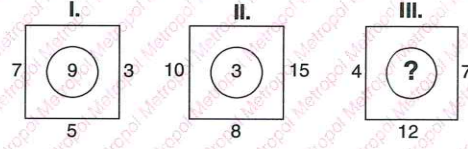
- A) 39
B) 40
C) 41
D) 42
E) 43

3.



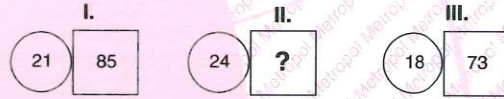
- A) 10
B) 11
C) 12
D) 13
E) 14

4.



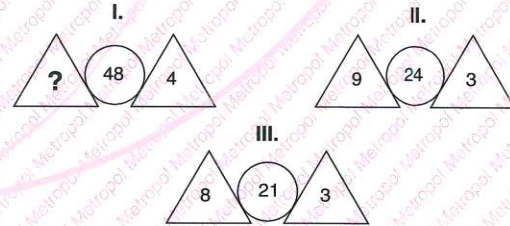
- A) 9
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C) 11
D) 12
E) 13

5.



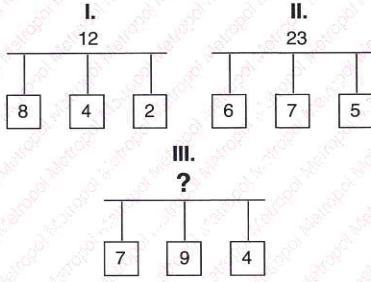
- A) 95
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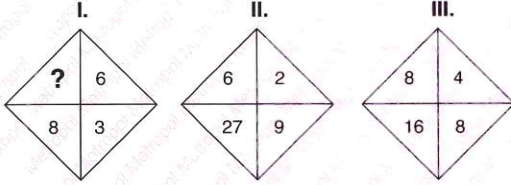
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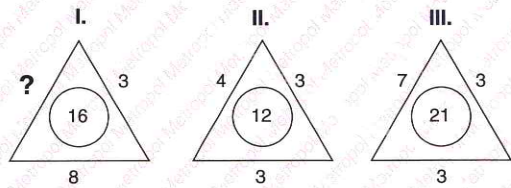
- A) 15
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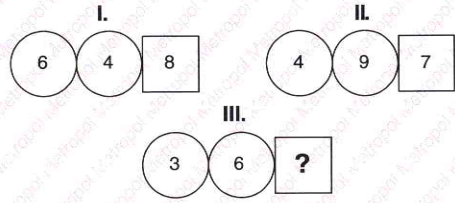
- A) 10
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C) 14
D) 16
E) 18

9.



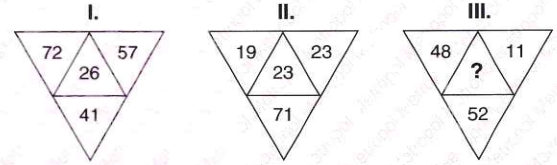
- A) 2
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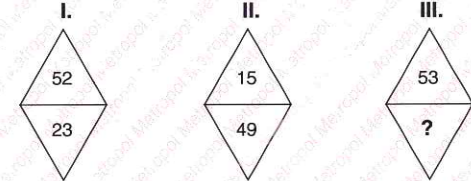
- A) 2
B) 3
C) 4
D) 5
E) 6

11.



- A) 21
B) 23
C) 24
D) 26
E) 28

12.



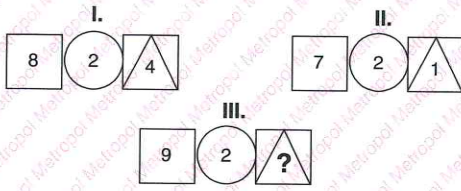
- A) 33
B) 34
C) 35
D) 49
E) 51

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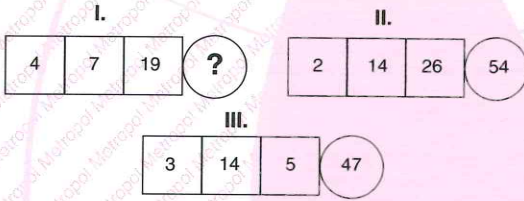
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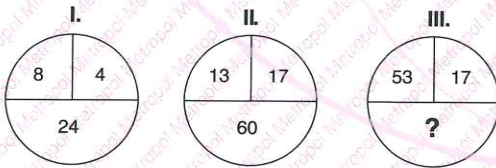
- A) 6
B) 7
C) 8
D) 9
E) 10

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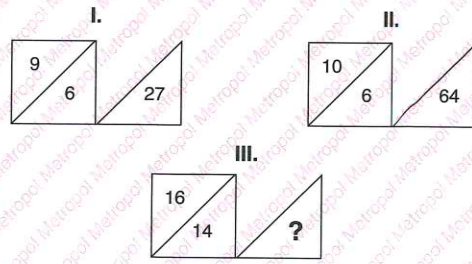
- A) 48
B) 47
C) 46
D) 45
E) 44

3.



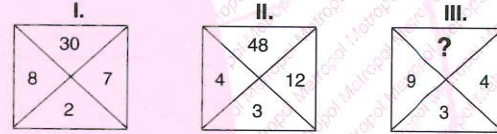
- A) 130
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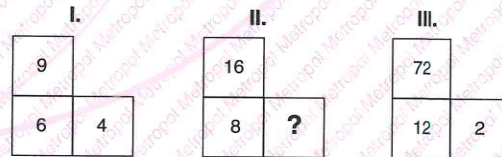
- A) 4
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E) 16

5.



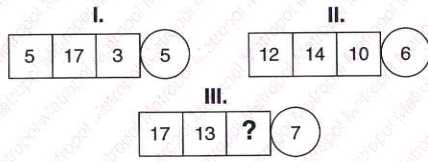
- A) 36
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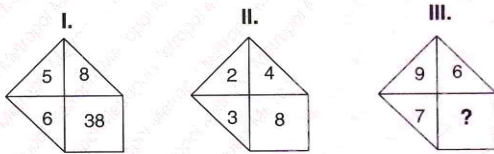
- A) 4
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7.



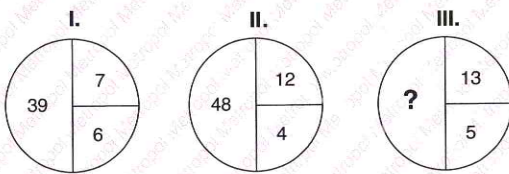
- A) 16 B) 17 C) 18 D) 19 E) 20

8.



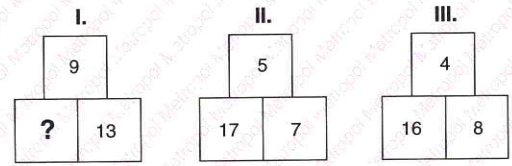
- A) 18
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C) 24
D) 28
E) 32

9.



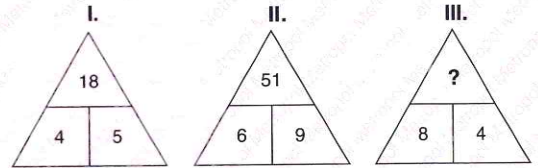
- A) 50
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D) 53
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10.



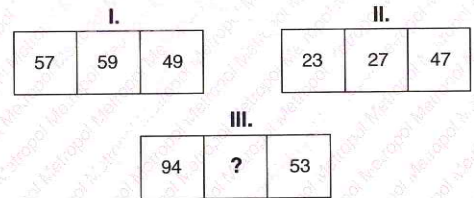
- A) 27
B) 28
C) 29
D) 30
E) 31

11.



- A) 26
B) 28
C) 30
D) 32
E) 34

12.



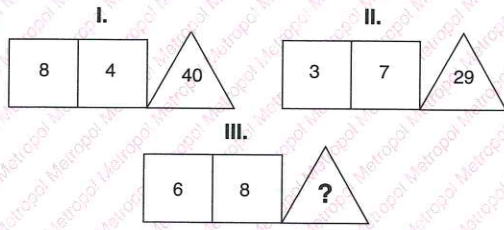
- A) 35
B) 43
C) 45
D) 91
E) 93



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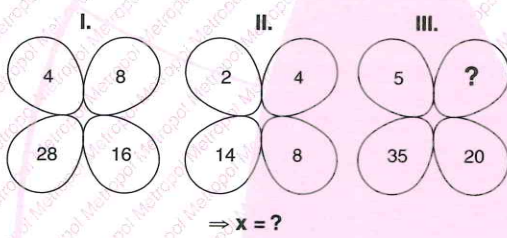
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2	B	4	B	6	A	8	C	10	E	12	E

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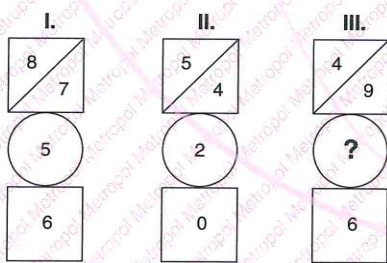
- A) 40
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D) 52
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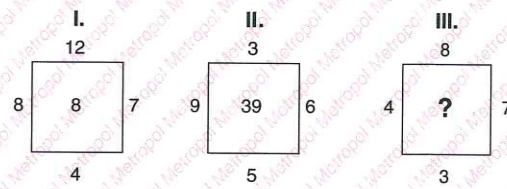
- A) 9
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D) 12
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3.



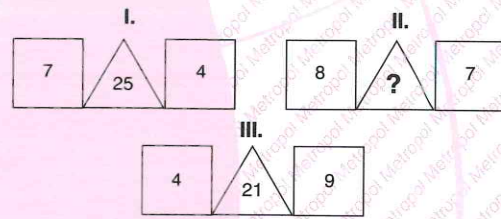
- A) 1
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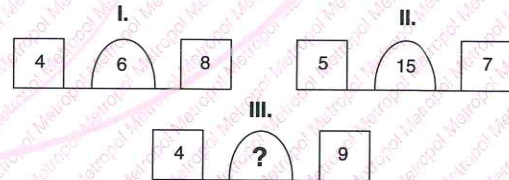
- A) 8
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D) 5
E) 4

5.



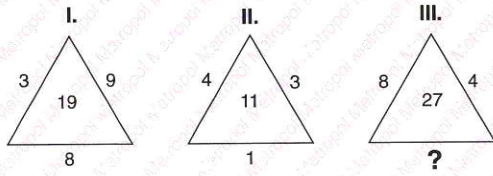
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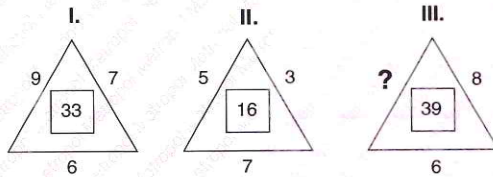
- A) 15
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7.



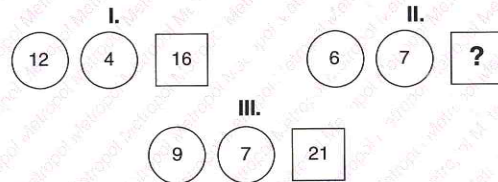
- A) 4
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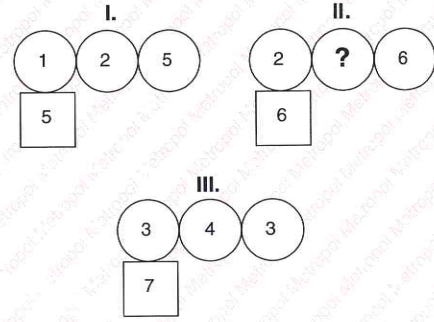
- A) 5
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9.



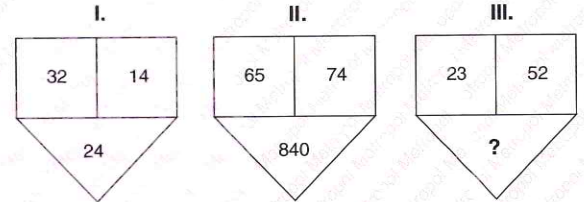
- A) 10
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D) 13
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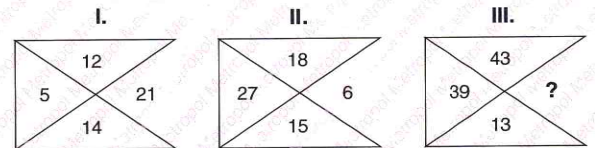
- A) 1
B) 2
C) 3
D) 4
E) 5

11.



- A) 32
B) 45
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D) 60
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12.

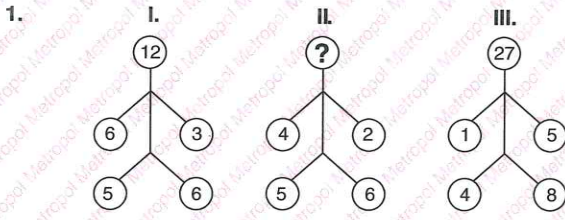


- A) 13
B) 15
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D) 18
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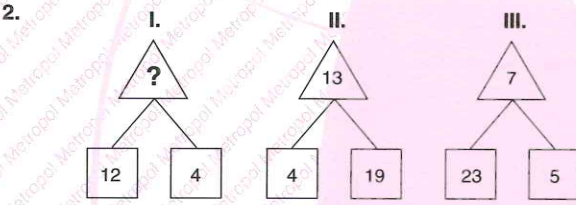


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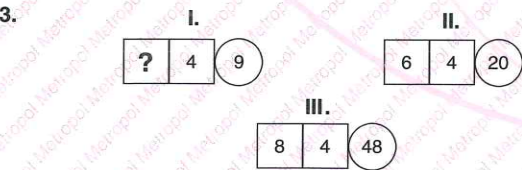
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2	B	4	E	6	D	8	C	10	A	12	C



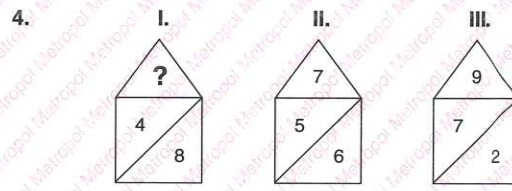
- A) 20
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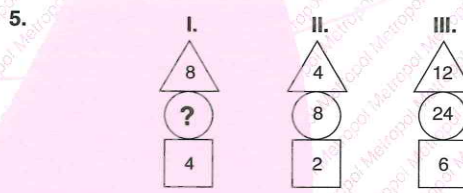
- A) 10
B) 12
C) 14
D) 16
E) 18



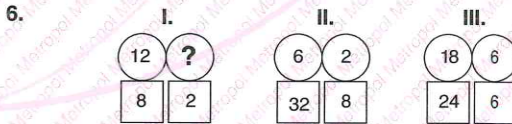
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B) 4
C) 3
D) 2
E) 1



- A) 6
B) 9
C) 10
D) 12
E) 14

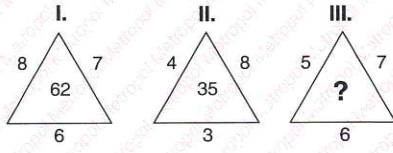


- A) 10
B) 12
C) 14
D) 16
E) 18



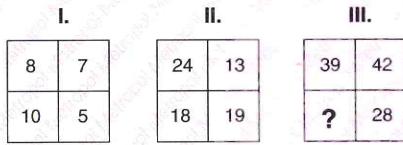
- A) 4
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C) 6
D) 7
E) 9

7.



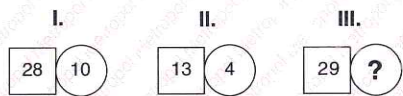
- A) 39
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E) 43

8.



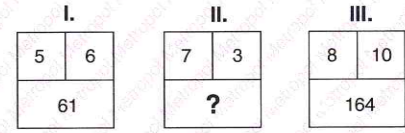
- A) 50
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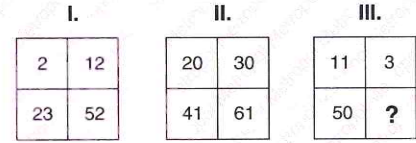
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C) 12
D) 13
E) 14

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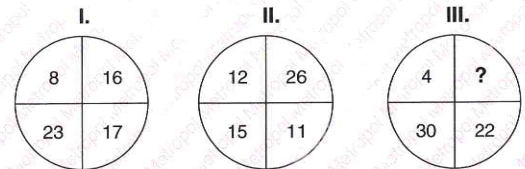
- A) 55
B) 56
C) 57
D) 58
E) 59

11.



- A) 8
B) 17
C) 34
D) 35
E) 65

12.



- A) 3
B) 5
C) 7
D) 8
E) 9

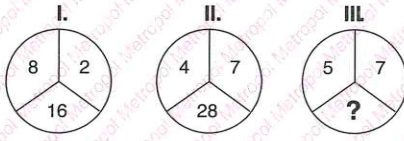
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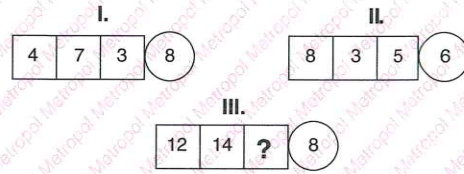
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2	B	4	A	6	A	8	D	10	D	12	D

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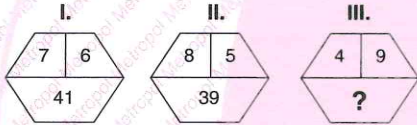
- A) 30
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D) 34
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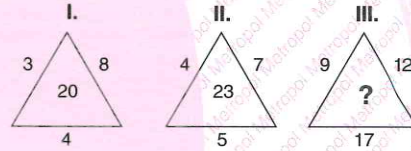
- A) 14
B) 16
C) 18
D) 20
E) 22

2.



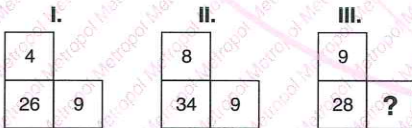
- A) 30
B) 32
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5.



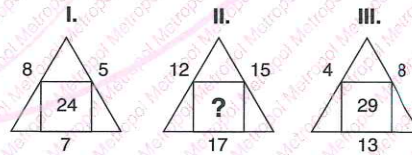
- A) 87
B) 89
C) 91
D) 93
E) 95

3.



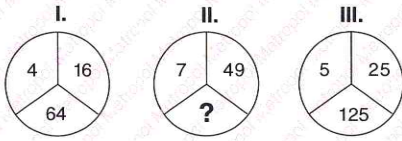
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C) 3
D) 4
E) 5

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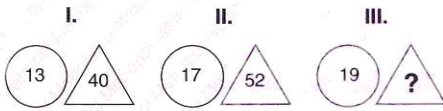
- A) 48
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D) 51
E) 52

7.



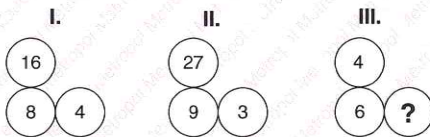
- A) 340
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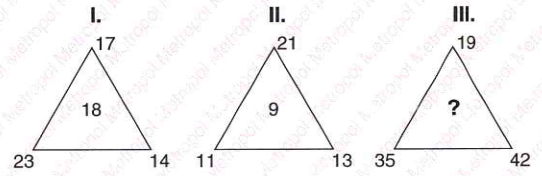
- A) 55
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D) 58
E) 59

9.



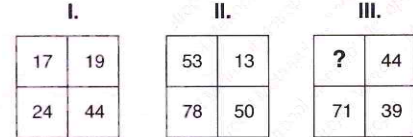
- A) 8
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D) 11
E) 12

10.



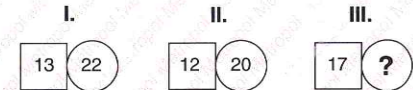
- A) 20
B) 22
C) 24
D) 26
E) 28

11.



- A) 22
B) 23
C) 24
D) 25
E) 26

12.



- A) 22
B) 24
C) 26
D) 28
E) 30

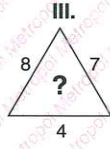
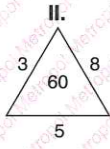
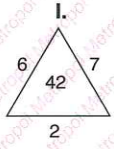
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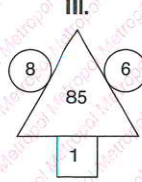
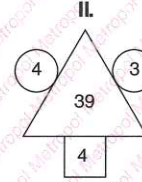
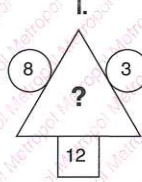
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2	D	4	C	6	A	8	D	10	C	12	E

1.



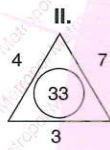
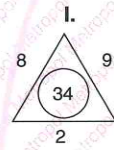
- A) 110
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C) 114
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4.



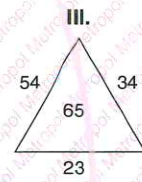
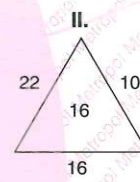
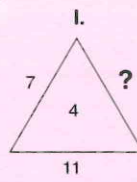
- A) 70
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D) 73
E) 74

2.



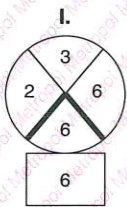
- A) 51
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E) 55

5.



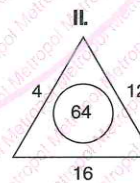
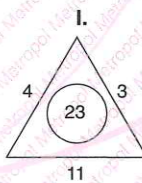
- A) 2
B) 4
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D) 8
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3.



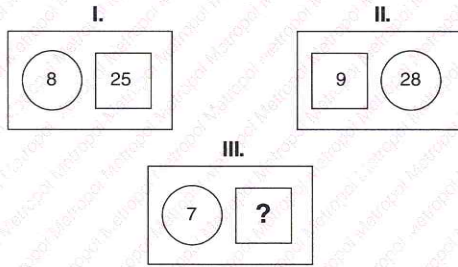
- A) 10
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C) 14
D) 16
E) 18

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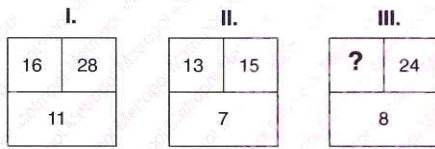
- A) 40
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E) 49

7.



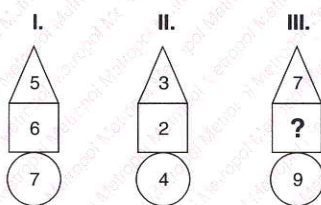
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D) 23
E) 24

8.



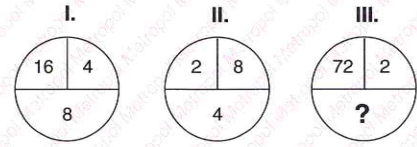
- A) 6
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E) 14

9.



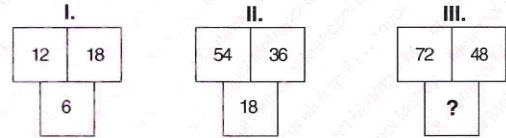
- A) 0
B) 1
C) 2
D) 3
E) 4

10.



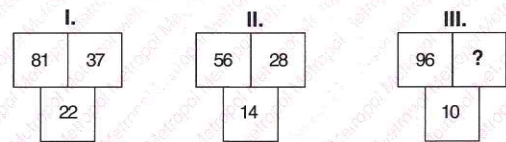
- A) 9
B) 11
C) 12
D) 14
E) 16

11.



- A) 24
B) 26
C) 28
D) 30
E) 32

12.

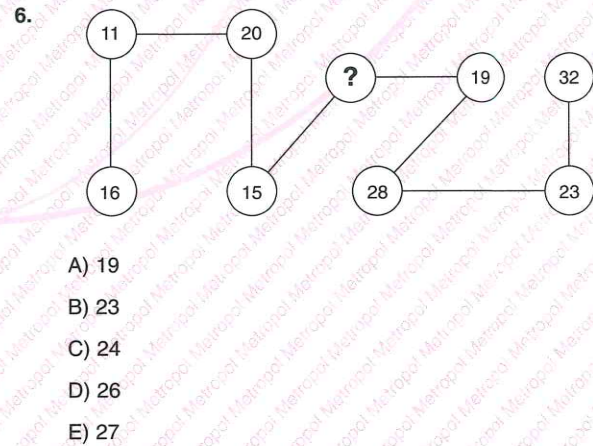
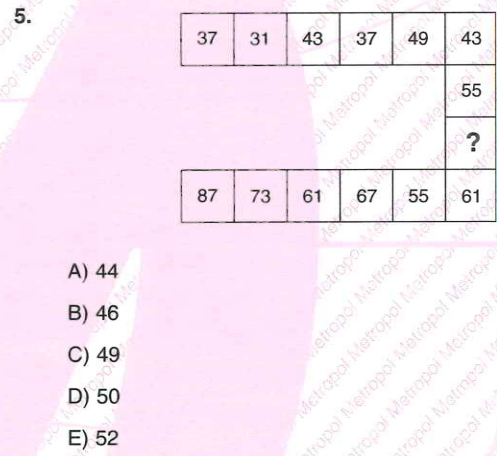
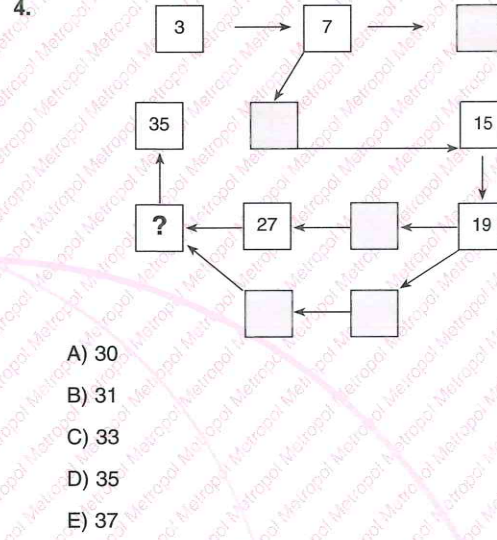
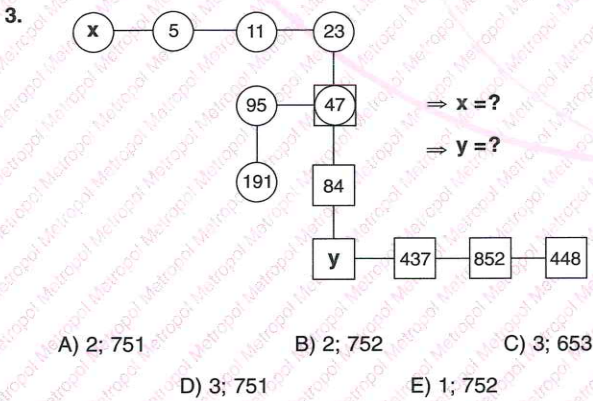
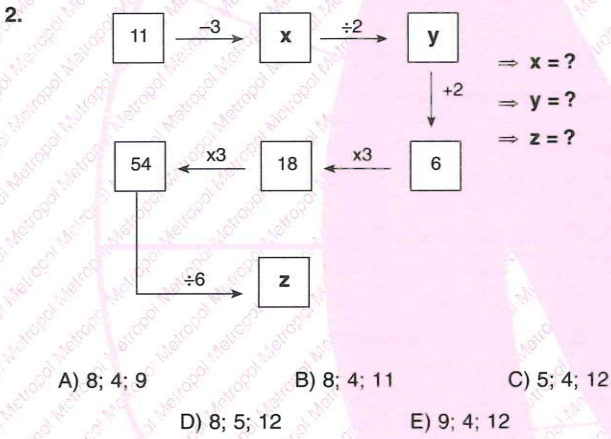
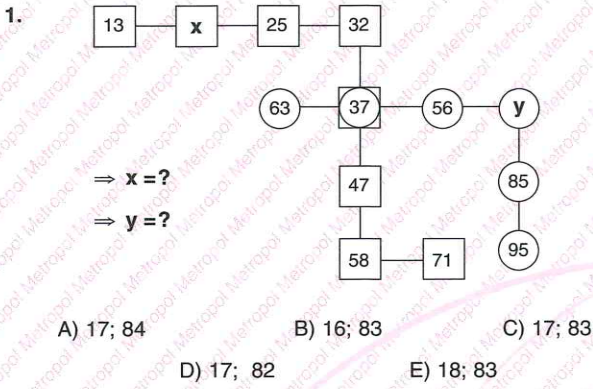


- A) 20
B) 36
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E) 86

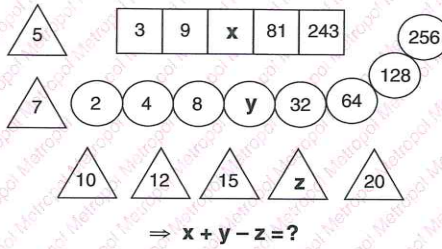


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1	B	3	B	5	D	7	C	9	C	11	A
2	D	4	B	6	B	8	B	10	C	12	D

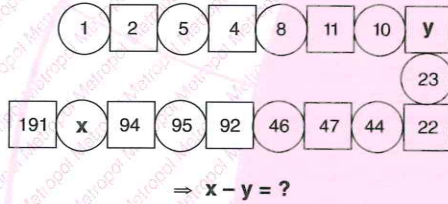


1.



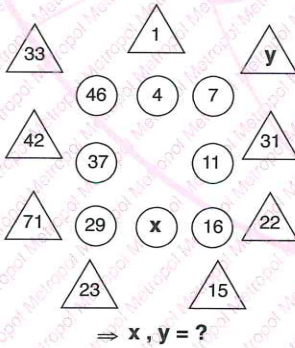
- A) 24
B) 25
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D) 27
E) 28

2.



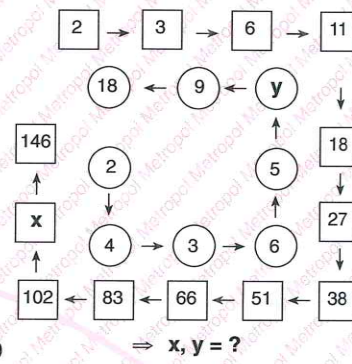
- A) 158
B) 168
C) 172
D) 184
E) 190

3.



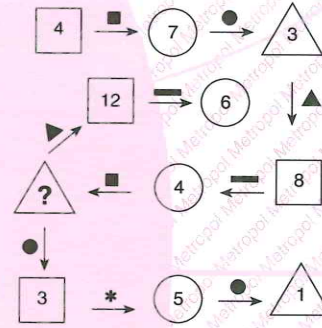
- A) 22, 21
B) 23, 21
C) 24, 22
D) 24, 23
E) 22, 20

4.



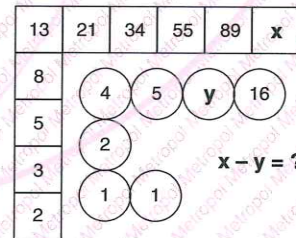
- A) 122, 9
B) 122, 10
C) 123, 10
D) 123, 9
E) 124, 10

5.



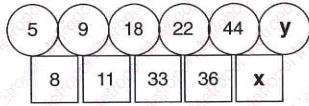
- A) 3
B) 5
C) 7
D) 9
E) 11

6.



- A) 124
B) 125
C) 126
D) 128
E) 129

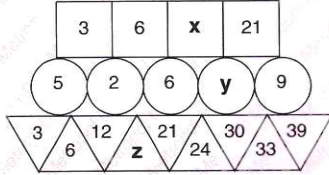
7.



$$x - y = ?$$

- A) 50
B) 55
C) 60
D) 65
E) 70

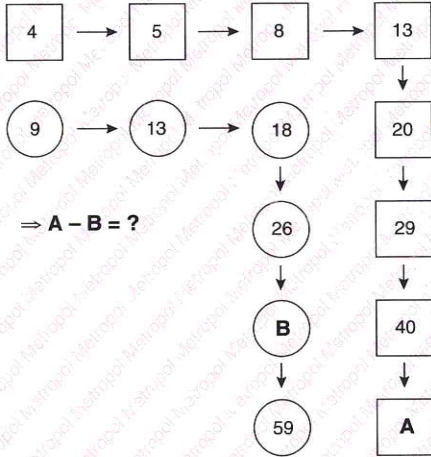
8.



$$x + y - z = ?$$

- A) 0
B) 1
C) 2
D) 3
E) 4

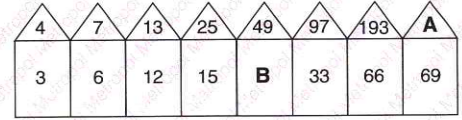
9.



$$\Rightarrow A - B = ?$$

- A) 12
B) 14
C) 15
D) 16
E) 17

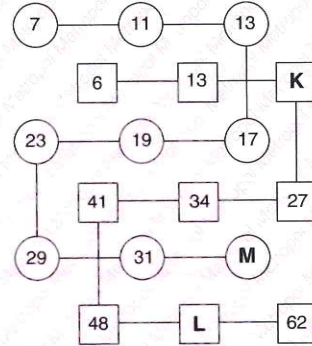
10.



$$\Rightarrow A + B = ?$$

- A) 395
B) 400
C) 405
D) 410
E) 415

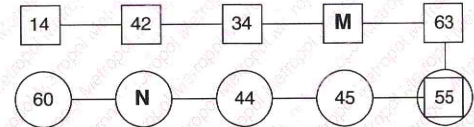
11.



$$\Rightarrow K + L + M = ?$$

- A) 86
B) 88
C) 90
D) 112
E) 116

12.



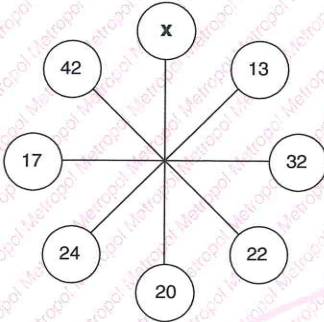
- A) 55, 62
B) 63, 54
C) 62, 61
D) 63, 55
E) 54, 62



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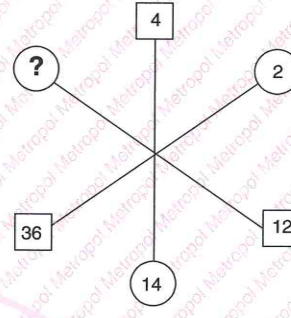
1	C	3	A	5	C	7	C	9	B	11	D
2	B	4	C	6	E	8	A	10	E	12	C

1.

 $\Rightarrow x = ?$

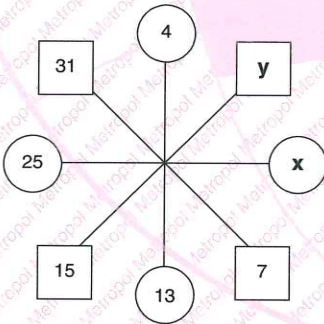
- A) 11
B) 12
C) 13
D) 14
E) 15

3.



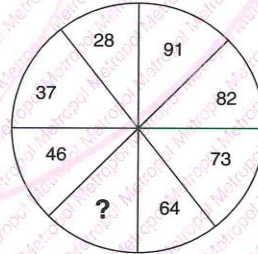
- A) 90
B) 93
C) 95
D) 97
E) 98

2.

 $\Rightarrow x + y = ?$

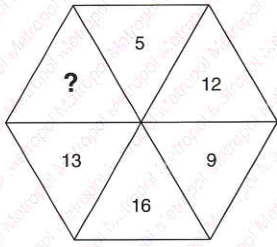
- A) 9
B) 10
C) 11
D) 12
E) 13

4.



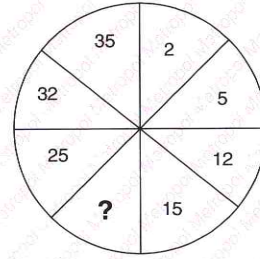
- A) 47
B) 55
C) 58
D) 63
E) 72

5.



- A) 18
B) 19
C) 20
D) 21
E) 22

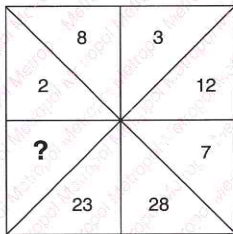
7.



- A) 19
B) 20
C) 21
D) 22
E) 23

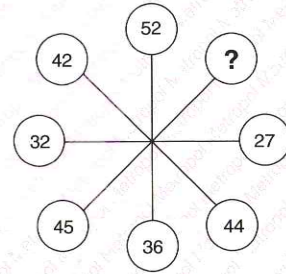
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6.



- A) 90
B) 91
C) 92
D) 93
E) 94

8.



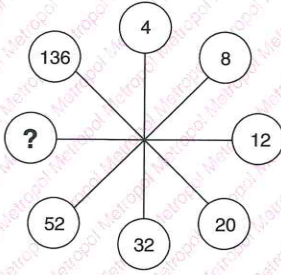
- A) 23
B) 24
C) 44
D) 62
E) 76



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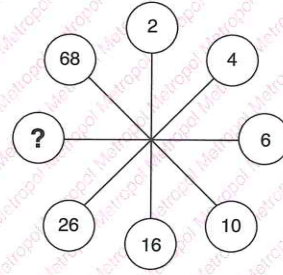
1	A	3	E	5	C	7	D
2	B	4	B	6	C	8	D

1.



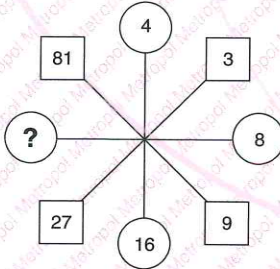
- A) 83
B) 84
C) 85
D) 86
E) 87

3.



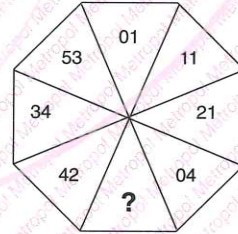
- A) 39
B) 40
C) 41
D) 42
E) 43

2.



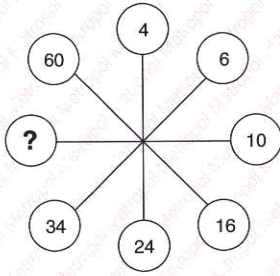
- A) 28
B) 29
C) 30
D) 31
E) 32

4.



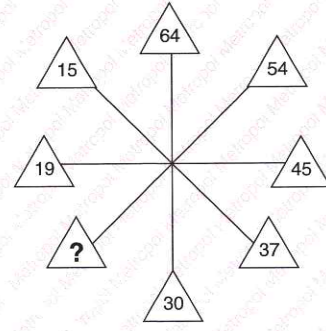
- A) 14
B) 16
C) 25
D) 27
E) 30

5.



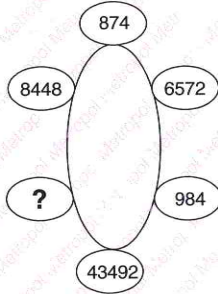
- A) 44
B) 45
C) 46
D) 47
E) 48

7.



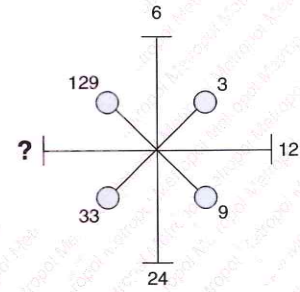
- A) 19
B) 23
C) 24
D) 27
E) 28

6.



- A) 4388
B) 7435
C) 8243
D) 8883
E) 9930

8.



- A) 48
B) 44
C) 40
D) 36
E) 32

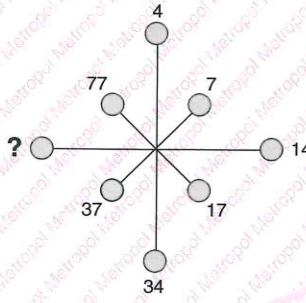
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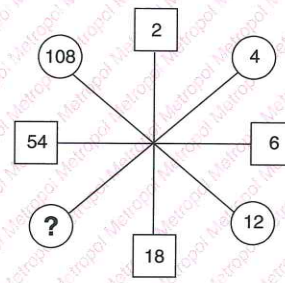
1	B	3	D	5	C	7	C
2	E	4	A	6	A	8	A

1.



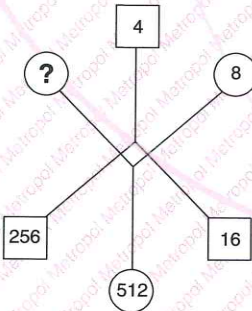
- A) 70
B) 71
C) 72
D) 73
E) 74

3.



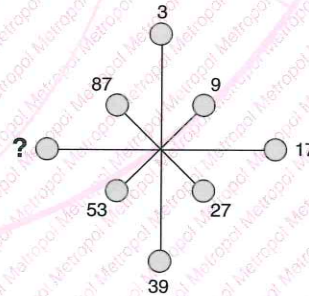
- A) 30
B) 34
C) 35
D) 36
E) 38

2.



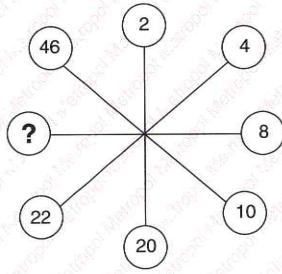
- A) 2
B) 16
C) 64
D) 2048
E) 5096

4.



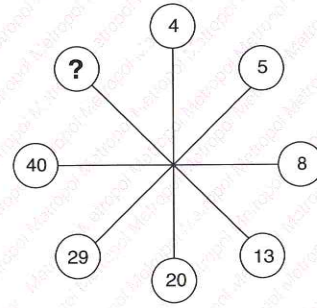
- A) 60
B) 63
C) 66
D) 69
E) 71

5.



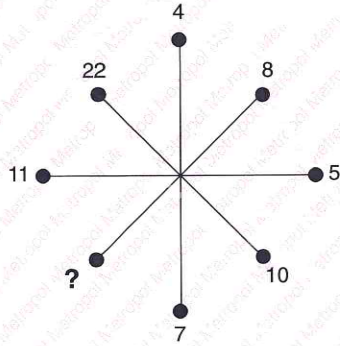
- A) 40
B) 41
C) 42
D) 43
E) 44

7.



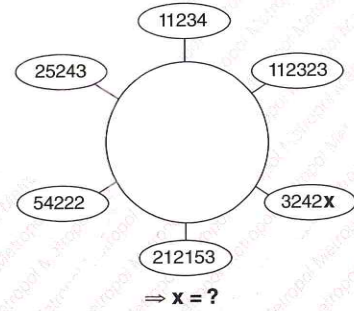
- A) 50
B) 51
C) 52
D) 53
E) 54

6.



- A) 10
B) 11
C) 12
D) 13
E) 14

8.



- A) 1
B) 2
C) 3
D) 4
E) 5

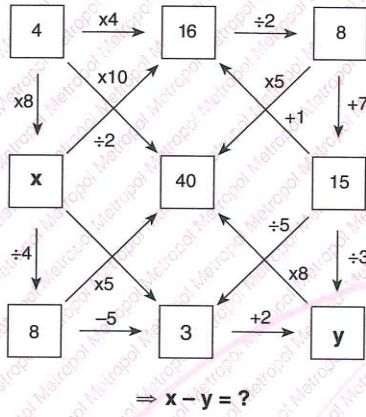
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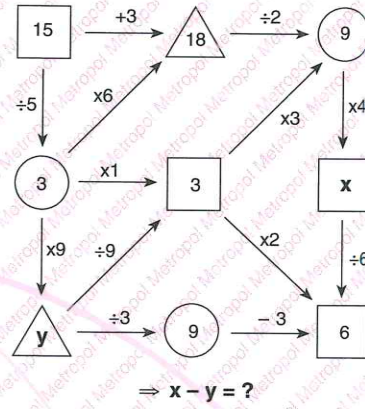
1	E	3	D	5	E	7	D
2	A	4	D	6	E	8	B

1.



- A) 27 B) 28 C) 29 D) 30 E) 31

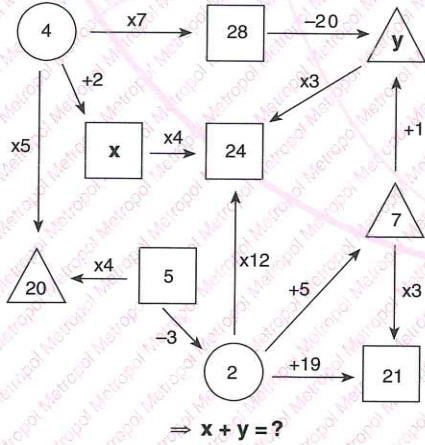
3.



- A) 7 B) 8 C) 9 D) 10 E) 11

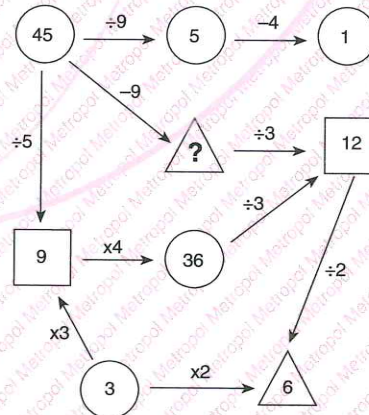
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2.



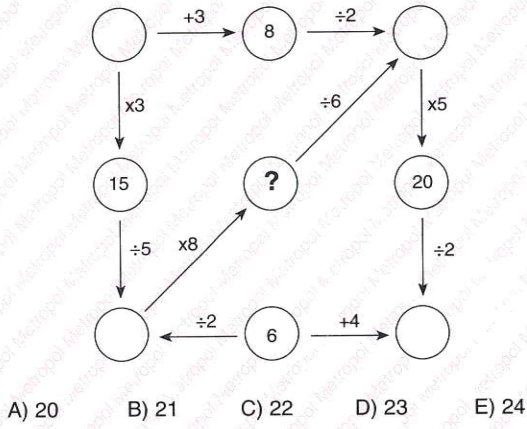
- A) 11 B) 12 C) 14 D) 16 E) 17

4.

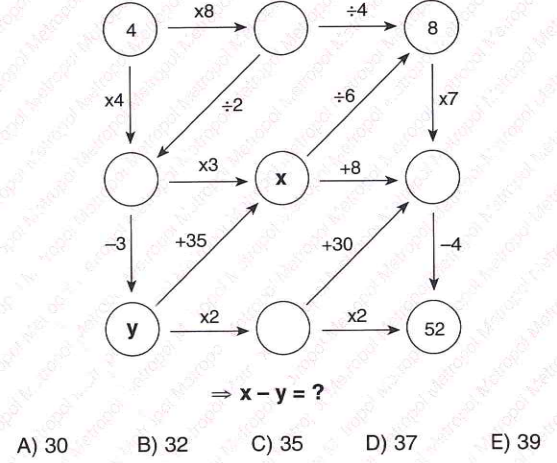


- A) 30 B) 33 C) 35 D) 36 E) 39

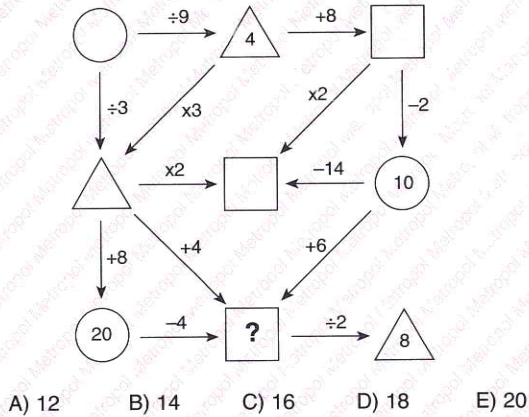
5.



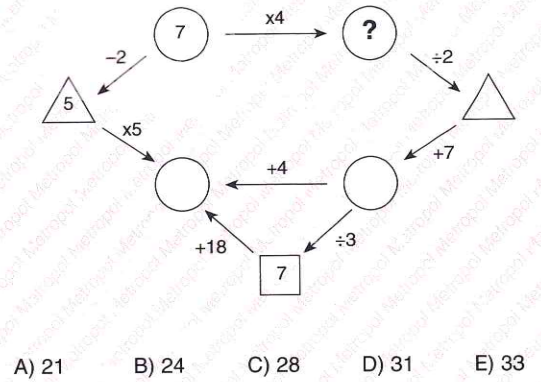
7.



6.



8.



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

A) 9 B) 11 C) 13 D) 15 E) 17

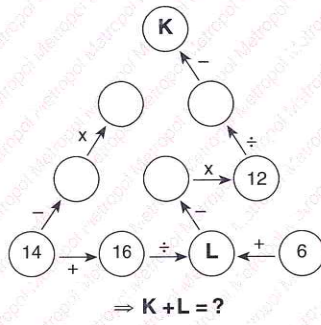
A) 4 B) 5 C) 6 D) 7 E) 8

A) 34 B) 32 C) 30 D) 28 E) 26

$$\Rightarrow x + y = ?$$

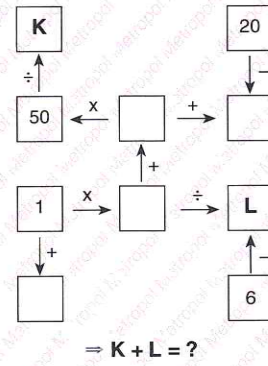
A) 18 B) 21 C) 24 D) 25 E) 29

5.



- A) 8 B) 10 C) 12 D) 14 E) 16

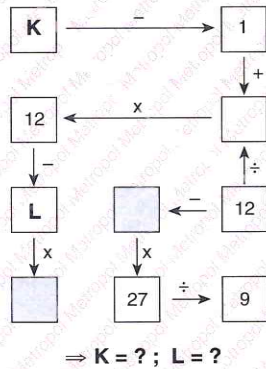
7.



- A) 10 B) 11 C) 12 D) 14 E) 15

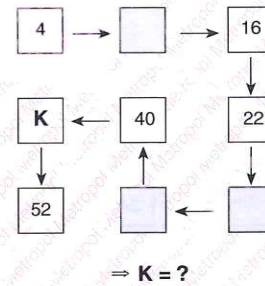
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6.



- A) 3; 9 B) 3; 8 C) 4; 7 D) 4; 8 E) 4; 9

8.



- A) 42 B) 44 C) 46 D) 48 E) 50



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

1.

	7		12	
11		15		8
19		7		14
	23		18	
10		26		16

→

		19		
	26		M	
	26		N	
		L		
	36		42	

→

		19		
		49		
		K		
		L		
		78		

$$\Rightarrow M + L - (N + K) = ?$$

- A) -6 B) -5 C) -4 D) 0 E) 4

2.

9		14		31
	13		28	
14		15		14
	M		28	
12		21		9

→

23		29		45
	20		56	
K		L		23

→

49	20	65	56	N

$$\Rightarrow N + M - K - L = ?$$

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

3.

13		44		19
	34		17	
	54		23	
45		9		12
	28		27	

→

	12		M	
		15		
		L		
	18		12	
		19		

→

		12		
		15		
		L		
		K		
		19		

$$\Rightarrow M + K - L = ?$$

- A) 16 B) 15 C) 14 D) 13 E) 12

4.

17		24		52
	5			19
18		51		25
	24			43
12		19		14

→

8		12		14
	11			8
M		7		12

→

2	11	L	8	8

$$\Rightarrow M \cdot L = ?$$

- A) 25 B) 27 C) 30 D) 36 E) 40

5.

72		21		19
	8			52
14		15		34
	13			74
15		25		45

→

45		18		N
	32			M
30		42		63

→

K	32	54	63	M

$$\Rightarrow \sqrt{\frac{M + N}{K}} = ?$$

- A) $\frac{5}{3}$ B) $\frac{7}{3}$ C) $\frac{7}{5}$ D) $\frac{3}{5}$ E) $\frac{5}{7}$

6.

4			12
	5		3
8			15
	M		42
6			17

→

9				L
	17			42
11				29

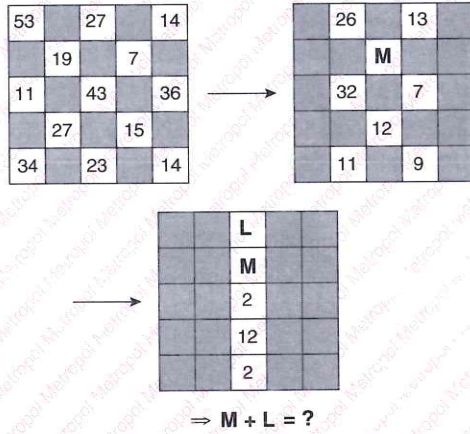
→

K	17		42	50

$$\Rightarrow K + M + L = ?$$

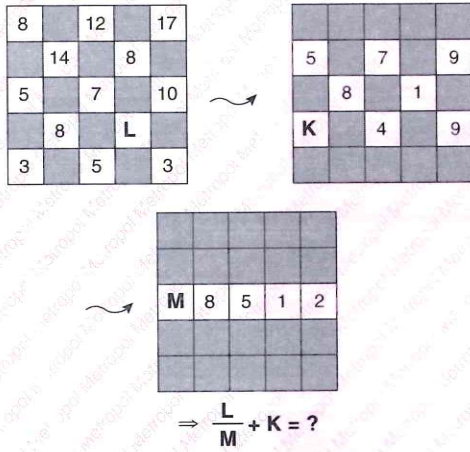
- A) 40 B) 42 C) 56 D) 58 E) 60

7.



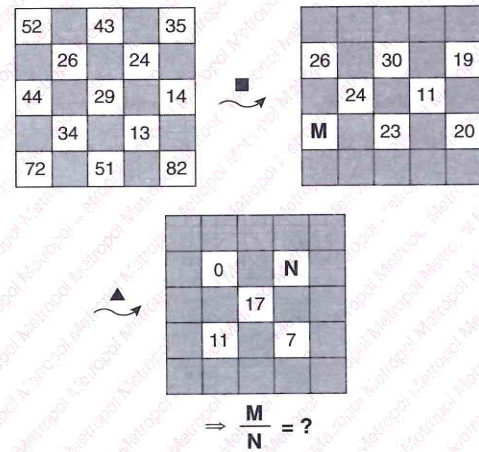
- A) 1 B) 2 C) 3 D) 4 E) 5

8.



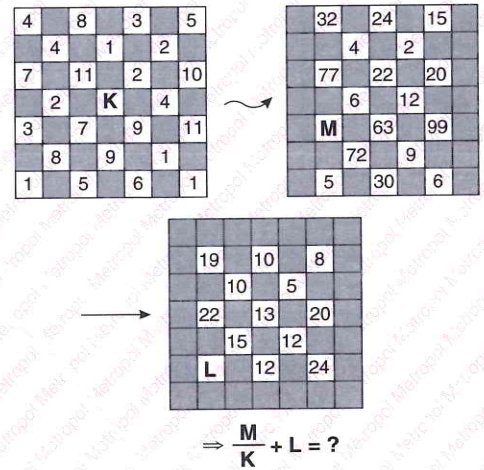
- A) 3 B) 5 C) 6 D) 7 E) 13

9.



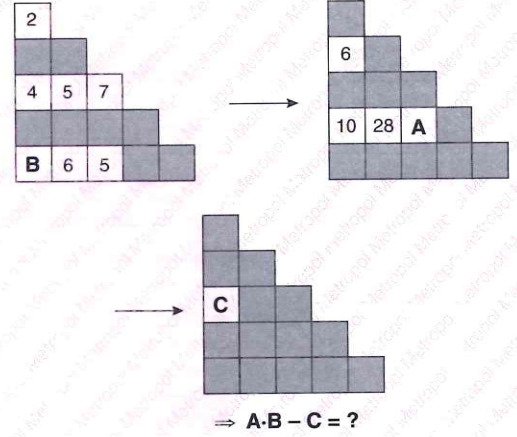
- A) 6 B) 5 C) 4 D) 3 E) 2

10.



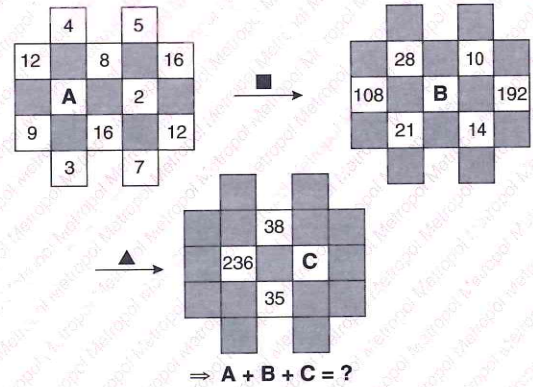
- A) 12 B) 14 C) 15 D) 18 E) 21

11.



- A) 41 B) 40 C) 39 D) 38 E) 37

12.



- A) 440 B) 450 C) 455 D) 460 E) 465

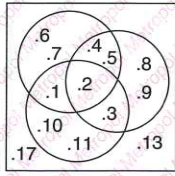


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1	C	3	A	5	B	7	B	9	E	11	A
2	A	4	C	6	C	8	D	10	C	12	C

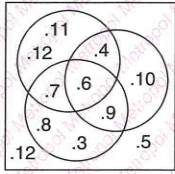
1.

I.



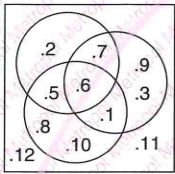
→ 27

II.



→ 14

III.



→ ?

A) 20

B) 30

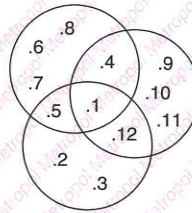
C) 40

D) 50

E) 60

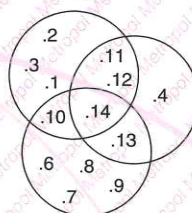
3.

I.



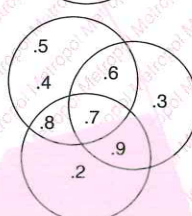
→ 13

II.



→ 51

III.



→ ?

A) 21

B) 24

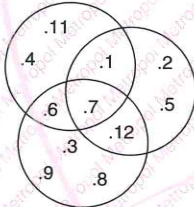
C) 36

D) 39

E) 41

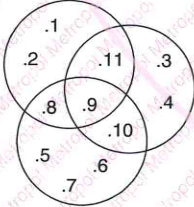
4.

I.



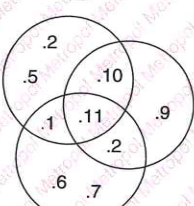
→ 81

II.



→ 53

III.



→ ?

A) 49

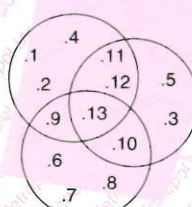
B) 50

C) 55

D) 61

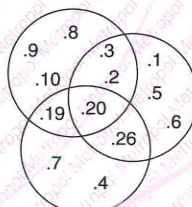
E) 64

I.



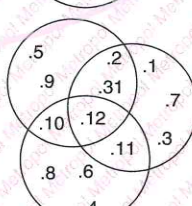
→ 36

II.



→ 25

III.



→ ?

A) 40

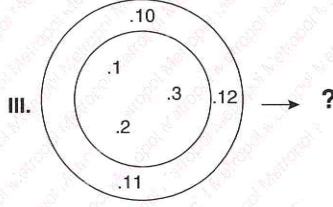
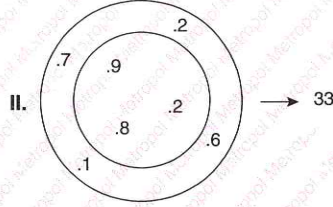
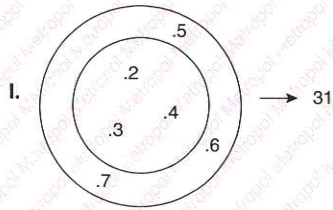
B) 41

C) 42

D) 45

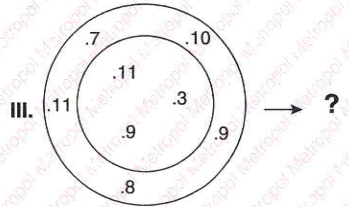
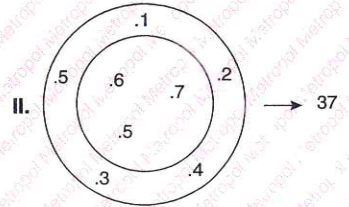
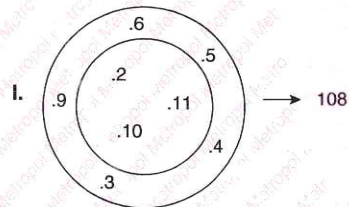
E) 49

5.



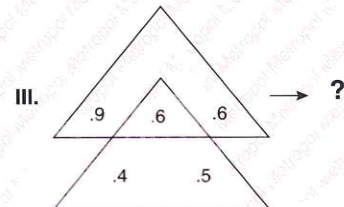
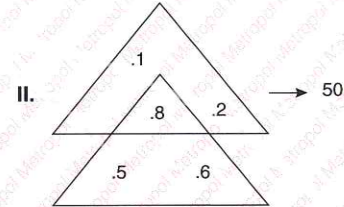
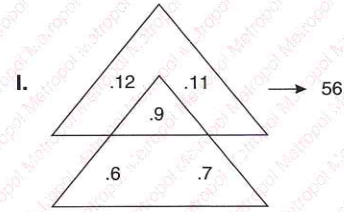
A) 17 B) 18 C) 19 D) 20 E) 21

6.



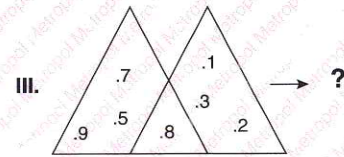
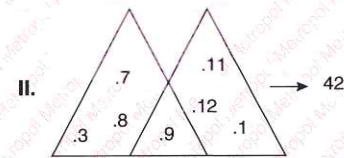
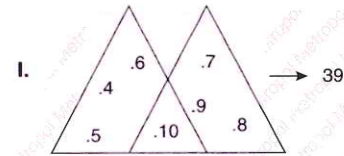
A) 85 B) 86 C) 96 D) 97 E) 100

7.



A) 26 B) 27 C) 35 D) 38 E) 40

8.



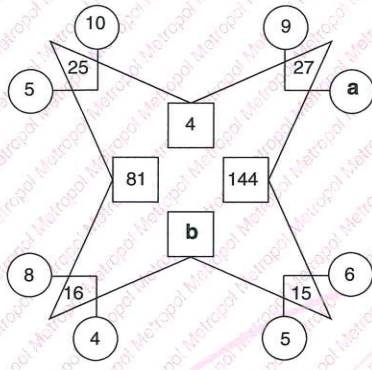
A) 19 B) 22 C) 27 D) 31 E) 33



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

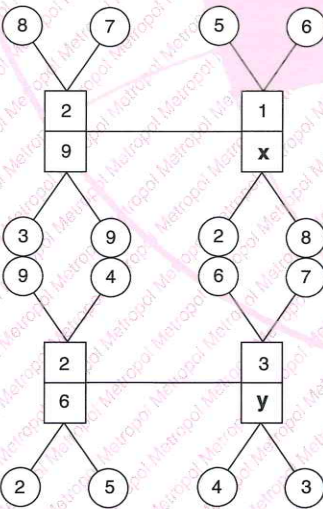
1.



$$\Rightarrow a + b = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

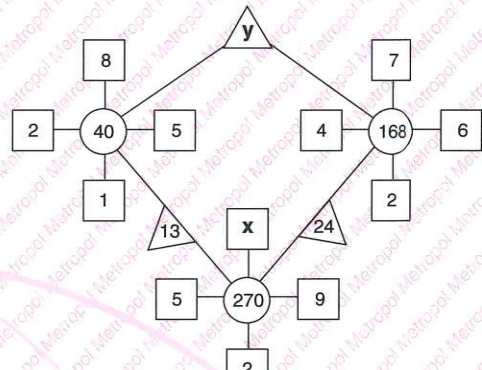
2.



$$\Rightarrow x + y = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

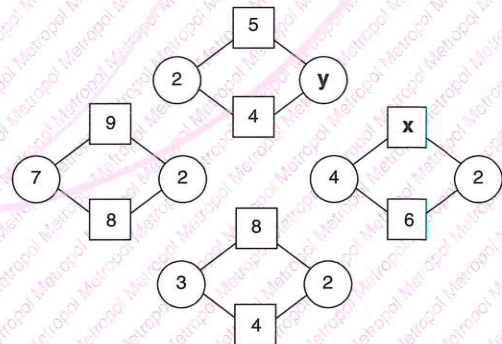
3.



$$\Rightarrow x + y = ?$$

- A) 24 B) 25 C) 26 D) 27 E) 28

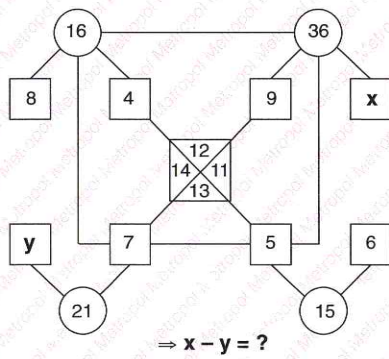
4.



$$\Rightarrow x \cdot y = ?$$

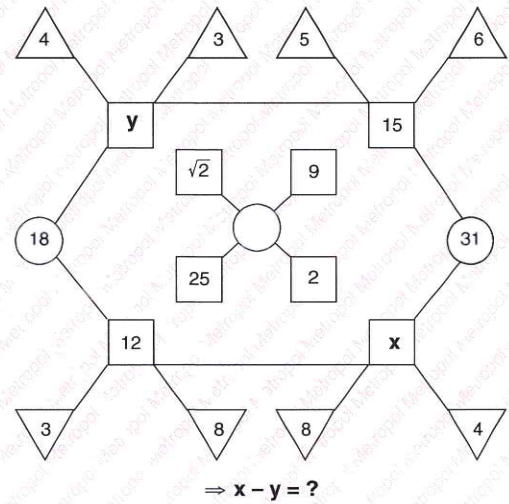
- A) 0 B) 1 C) 2 D) 3 E) 4

5.



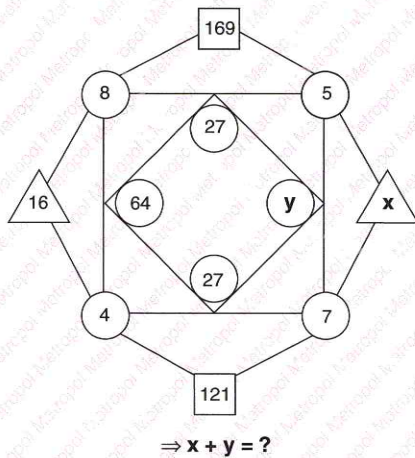
- A) 1 B) 2 C) 3 D) 4 E) 5

7.



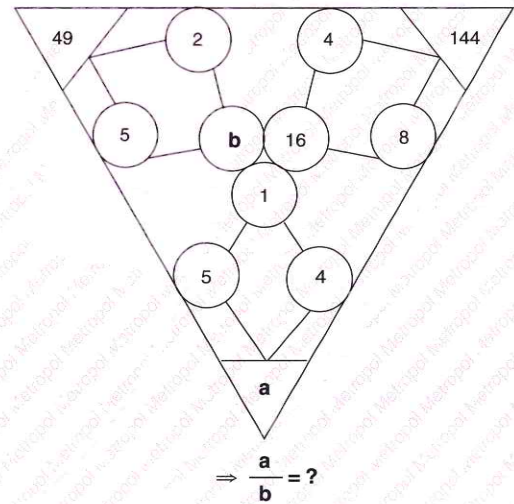
- A) 10 B) 11 C) 12 D) 13 E) 14

6.



- A) 10 B) 11 C) 12 D) 13 E) 14

8.



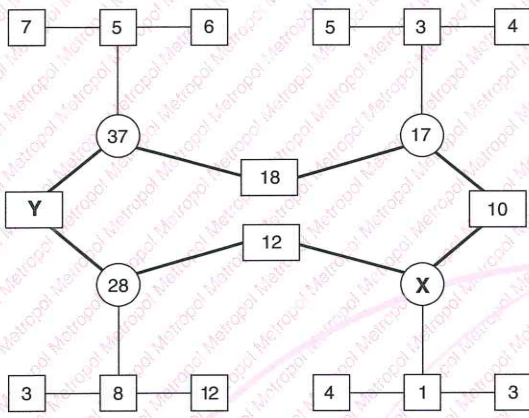
- A) 8 B) 9 C) 10 D) 11 E) 12



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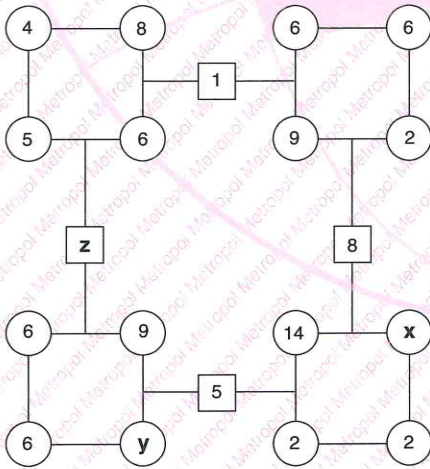
1	B	3	B	5	B	7	A
2	B	4	A	6	C	8	B

1.


$$\Rightarrow X + Y = ?$$

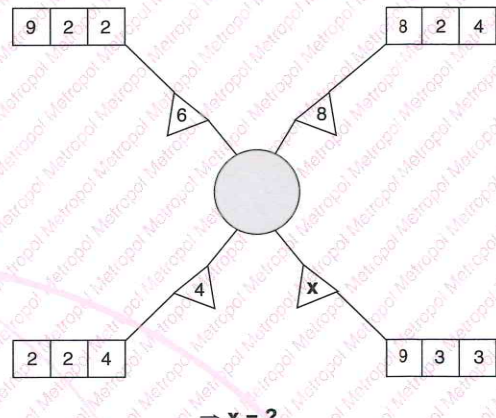
- A) 29 B) 30 C) 31 D) 32 E) 33

2.


$$\Rightarrow x + y - z = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

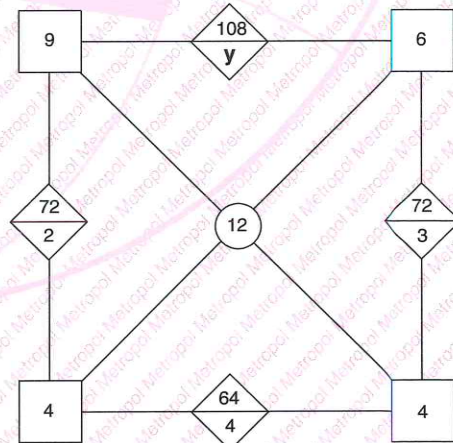
3.


$$\Rightarrow \mathbf{x} = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

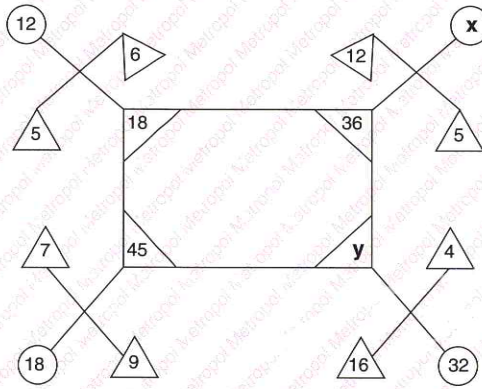
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4.


$$\Rightarrow y = ?$$

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

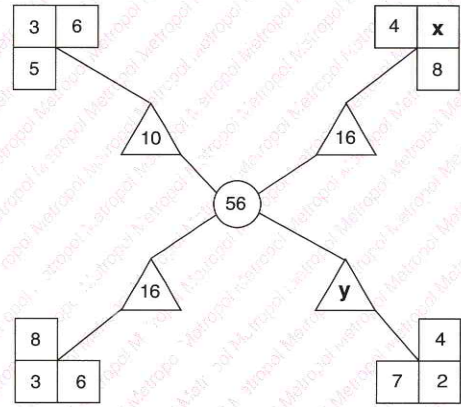
5.



$$\Rightarrow y - x = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

7.

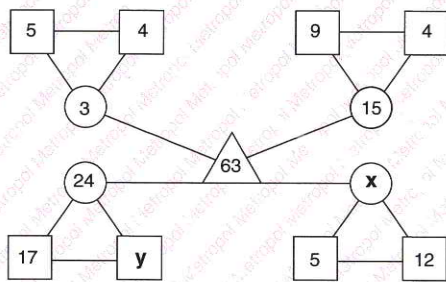


$$\Rightarrow x + y = ?$$

- A) 14 B) 15 C) 16 D) 18 E) 19

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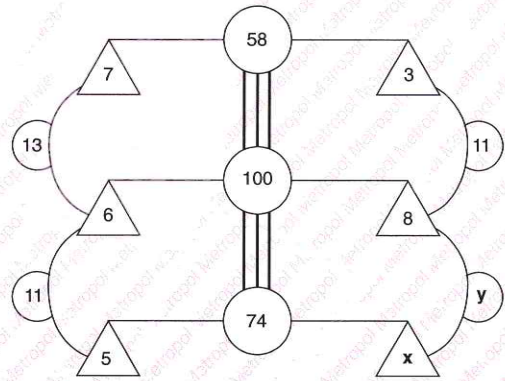
6.



$$\Rightarrow x = ? ; y = ?$$

- A) 21; 8 B) 20; 8 C) 22; 9 D) 21; 9 E) 21; 10

8.



$$\Rightarrow x = ? ; y = ?$$

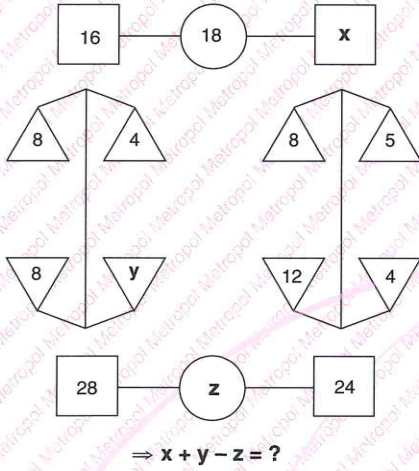
- A) 15; 8 B) 7; 15 C) 14; 7 D) 14; 6 E) 14; 8



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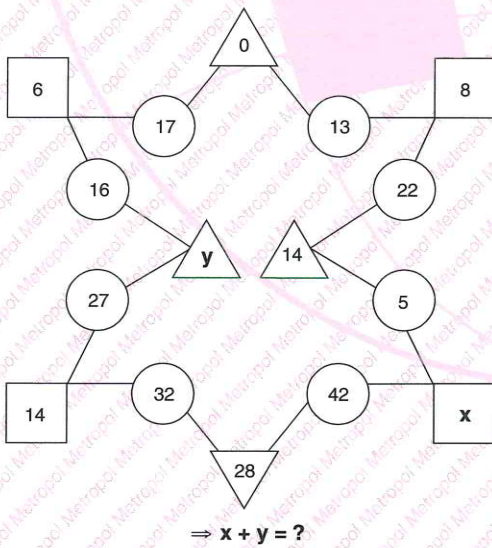
1	C	3	B	5	C	7	C
2	D	4	A	6	D	8	B

1.



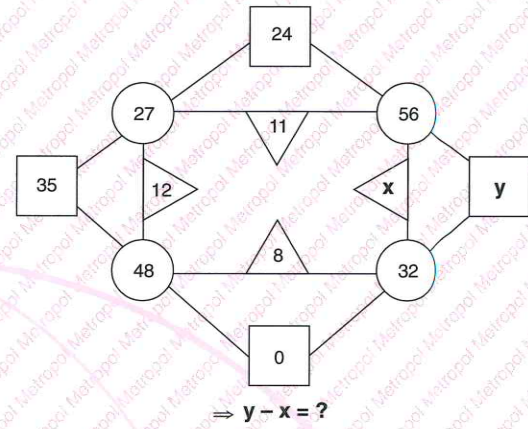
- A) 0 B) 1 C) 2 D) 3 E) 4

2.



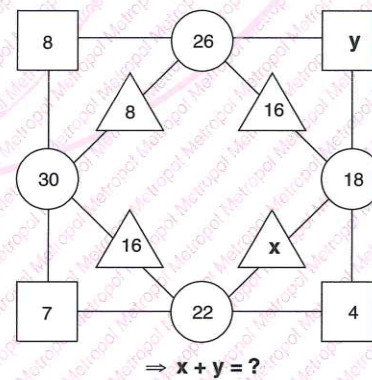
- A) 14 B) 20 C) 21 D) 22 E) 23

3.



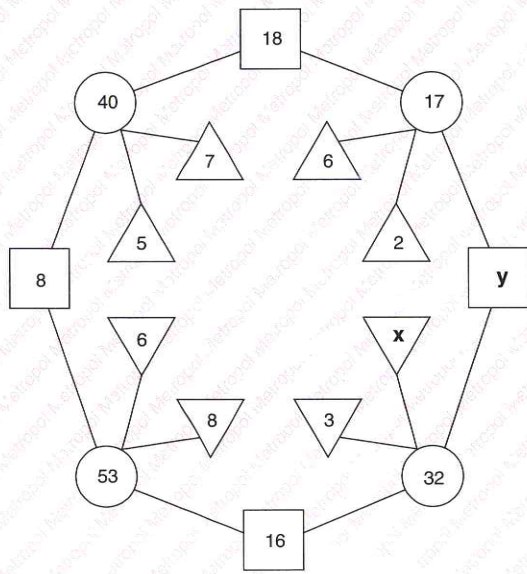
- A) 30 B) 36 C) 40 D) 46 E) 48

4.



- A) 10 B) 11 C) 12 D) 13 E) 14

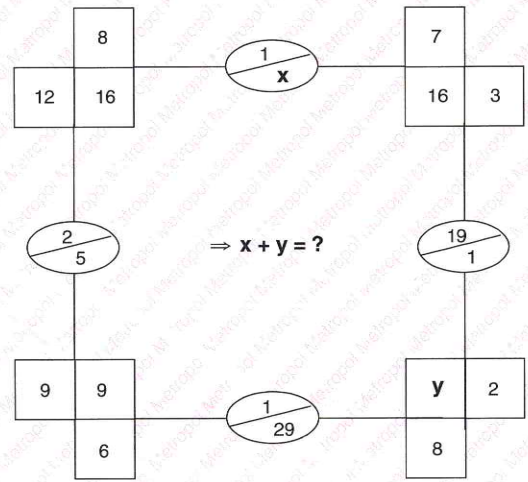
5.



$$\Rightarrow x + y = ?$$

- A) 18 B) 19 C) 20 D) 21 E) 22

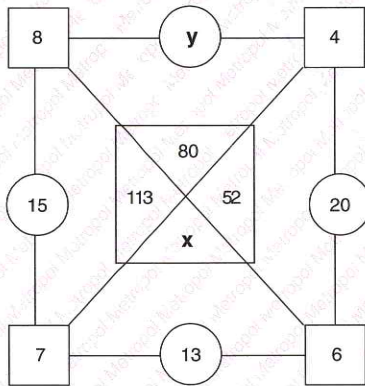
7.



$$\Rightarrow x + y = ?$$

- A) 37 B) 38 C) 39 D) 40 E) 41

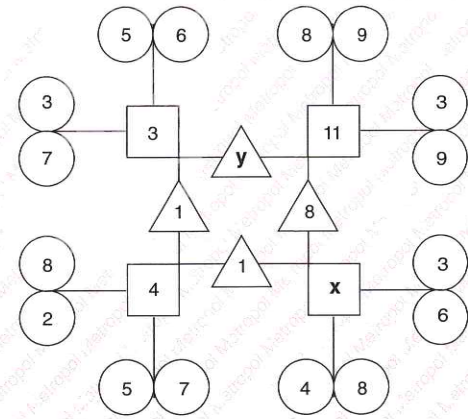
6.



$$\Rightarrow x - y = ?$$

- A) 34 B) 36 C) 37 D) 39 E) 41

8.



$$\Rightarrow x + y = ?$$

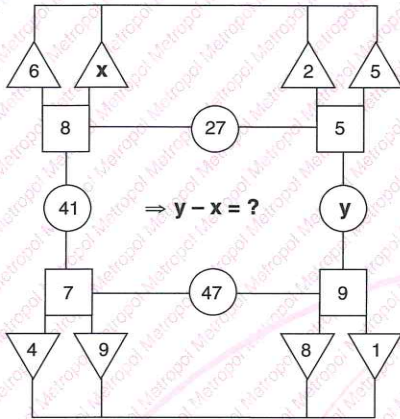
- A) 10 B) 11 C) 12 D) 14 E) 15



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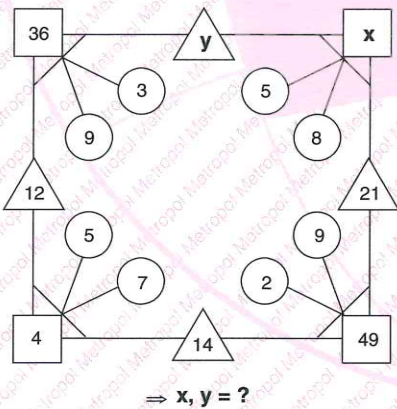
1	B	3	E	5	B	7	A
2	E	4	D	6	C	8	B

1.



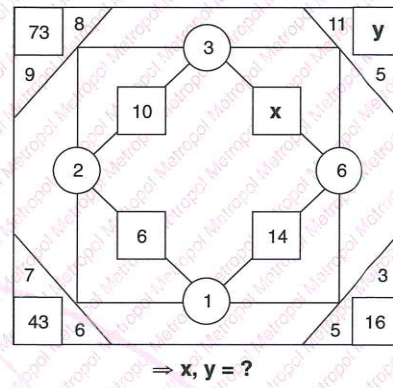
- A) 26
B) 27
C) 28
D) 29
E) 30

2.



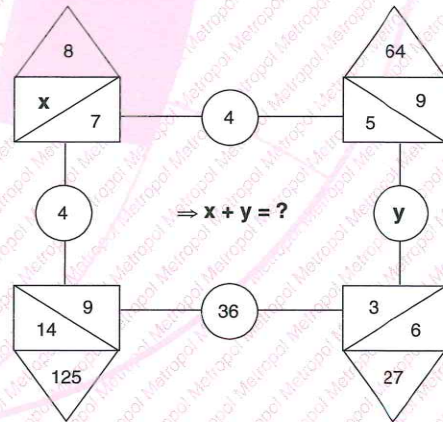
- A) 9, 19
B) 9, 18
C) 10, 20
D) 9, 20
E) 8, 19

3.



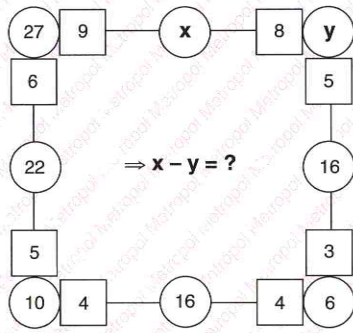
- A) 18, 56
B) 16, 56
C) 14, 57
D) 18, 58
E) 16, 55

4.



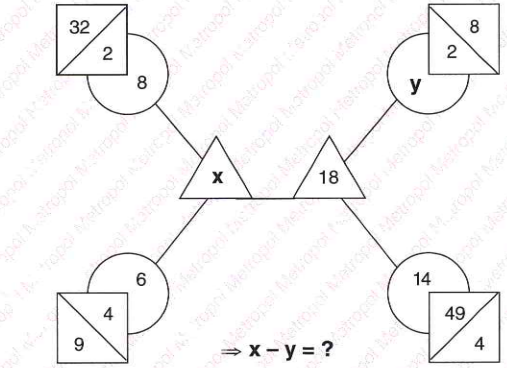
- A) 13
B) 14
C) 15
D) 16
E) 17

5.



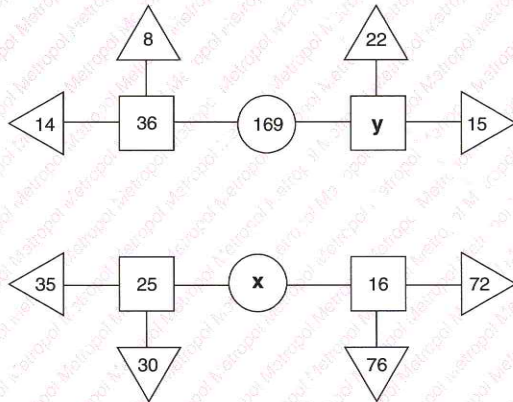
- A) 10 B) 11 C) 12 D) 13 E) 14

7.



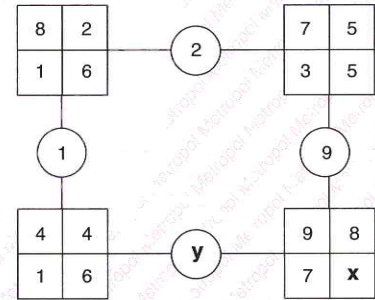
- A) 10 B) 11 C) 12 D) 13 E) 14

6.



- A) 30 B) 31 C) 32 D) 33 E) 34

8.



- A) 8
B) 7
C) 6
D) 5
E) 4

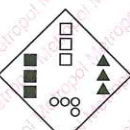
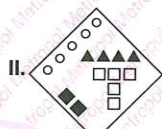
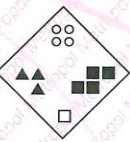


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1	B	3	A	5	E	7	A
2	B	4	A	6	C	8	E

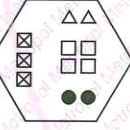
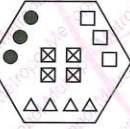
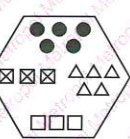
- 1.
- I.  → 2; 3; 2; 2
- II.  → 1; 1; 4; 3
- III.  → ?; ?; ?; ?

- A) 2; 3; 2; 1
B) 3; 2; 1; 2
C) 2; 2; 3; 1
D) 3; 2; 2; 1
E) 2; 3; 1; 2

- 3.
- I.  → 3; 4; 3; 3
- II.  → 5; 5; 4; 2
- III.  → ?; ?; ?; ?

- A) 1; 3; 4; 4
B) 1; 4; 3; 4
C) 3; 1; 4; 4
D) 4; 1; 3; 4
E) 4; 3; 4; 1

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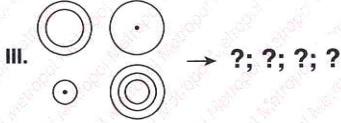
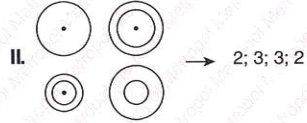
- 2.
- I.  → 2; 2; 3; 4
- II.  → 4; 3; 4; 3
- III.  → ?; ?; ?; ?

- A) 5; 5; 3; 3
B) 5; 3; 5; 3
C) 5; 3; 3; 5
D) 3; 3; 5; 5
E) 3; 5; 3; 5

- 4.
- I.  → 5; 3; 4; 3
- II.  → 2; 1; 2; 3
- III.  → ?; ?; ?; ?

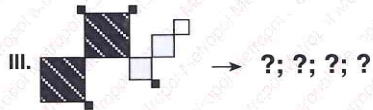
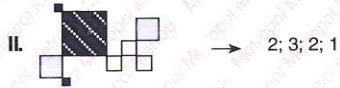
- A) 3; 4; 3; 1
B) 3; 1; 4; 3
C) 3; 3; 4; 1
D) 1; 4; 3; 3
E) 1; 3; 4; 3

5.



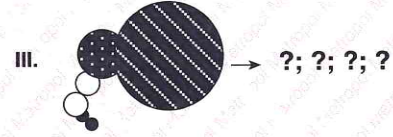
- A) 2; 2; 2; 2
B) 2; 2; 2; 3
C) 2; 3; 2; 2
D) 2; 2; 3; 2
E) 3; 2; 2; 2

6.



- A) 4; 1; 2; 2
B) 4; 2; 1; 2
C) 4; 2; 2; 1
D) 2; 4; 2; 1
E) 2; 2; 1; 4

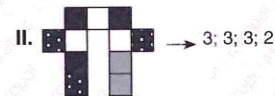
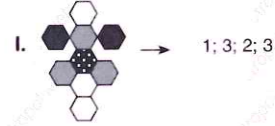
7.



- A) 2; 1; 1; 2
B) 2; 2; 1; 1
C) 1; 1; 2; 2
D) 2; 1; 2; 1
E) 1; 2; 1; 1

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8.



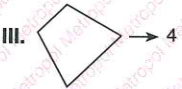
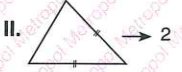
- A) 4; 2; 4; 3
B) 4; 2; 3; 4
C) 4; 3; 2; 4
D) 3; 4; 2; 4
E) 3; 2; 4; 4



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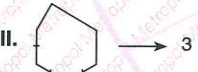
1	D	3	B	5	C	7	C
2	A	4	C	6	A	8	B

1.



- A) 1
B) 2
C) 3
D) 5
E) 6

2.



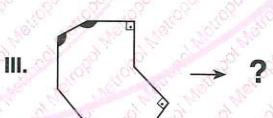
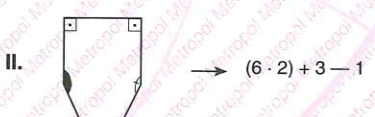
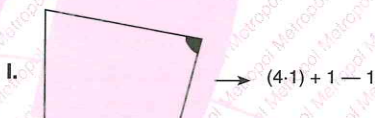
- A) 2
B) 3
C) 4
D) 5
E) 6

3.



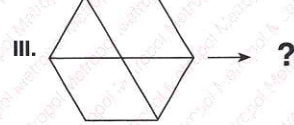
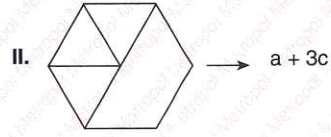
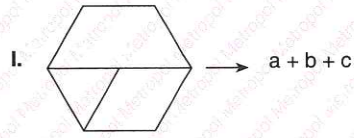
- A) 31
B) 33
C) 35
D) 37
E) 39

4.



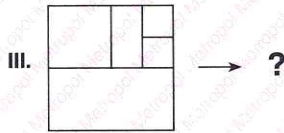
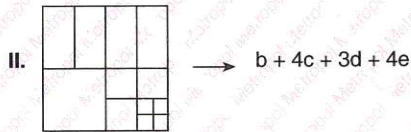
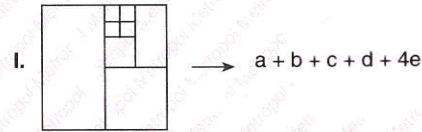
- A) 17
B) 18
C) 19
D) 20
E) 21

5.



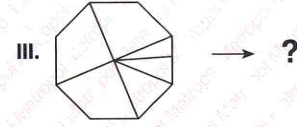
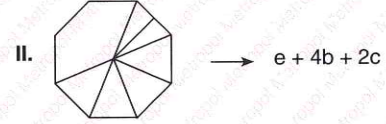
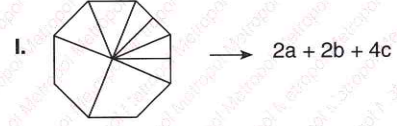
- A) $2a + 2b$
 B) $2a + 2c$
 C) $2b + 2c$
 D) $2b + 2c + a$
 E) $a + 2b + c$

6.



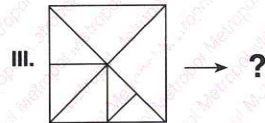
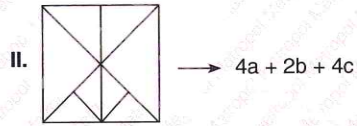
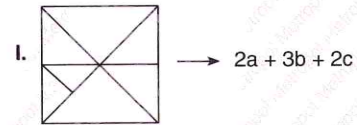
- A) $a + b + c + d$
 B) $a + 2b + 2c + d$
 C) $a + b + 2c + d$
 D) $2a + 2b + c + d$
 E) $a + b + c + 2d$

7.



- A) $3a + b + 2c$
 B) $3a + 2c + 2b$
 C) $3a + b + c$
 D) $2a + b + 3c$
 E) $2a + 3b + c$

8.



- A) $2a + 2b + c$
 B) $2a + 3b + 3c$
 C) $2a + 3b + 2c$
 D) $2a + b + c$
 E) $a + 3b + 2c$

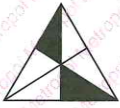


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1	C	3	D	5	C	7	A
2	C	4	B	6	E	8	C

1.

I.



$$\rightarrow 2 \cdot 4 = 8$$

II.



$$\rightarrow 15$$

III.



$$\rightarrow ?$$

- A) 1
B) 2
C) 3
D) 4
E) 5

2.

I.



$$\rightarrow \frac{8}{5} + 3$$

II.



$$\rightarrow \frac{11}{3}$$

III.



$$\rightarrow ?$$

- A) $\frac{13}{4}$
B) $\frac{13}{3}$
C) $\frac{7}{4}$
D) $\frac{7}{3}$
E) 3

3.

I.



$$\rightarrow \frac{12}{4} + 8$$

II.



$$\rightarrow 10$$

III.



$$\rightarrow ?$$

- A) $\frac{32}{3}$
B) $\frac{34}{3}$
C) 12
D) $\frac{38}{3}$
E) 14

4.

I.



$$\rightarrow \frac{2 \cdot 6}{8} = \frac{3}{2}$$

II.



$$\rightarrow \frac{21}{10}$$

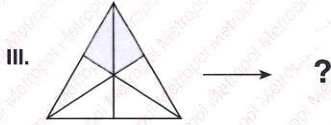
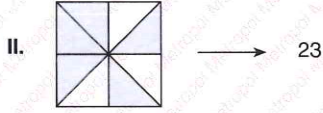
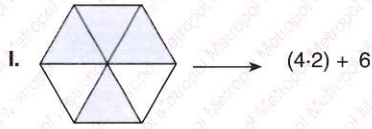
III.



$$\rightarrow ?$$

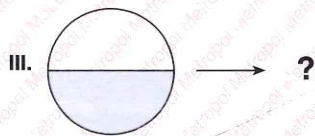
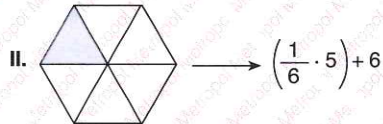
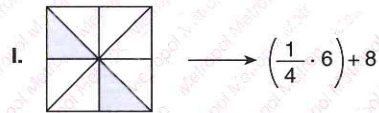
- A) $\frac{1}{2}$ B) $\frac{3}{2}$ C) $\frac{4}{3}$
D) $\frac{5}{4}$ E) $\frac{6}{5}$

5.



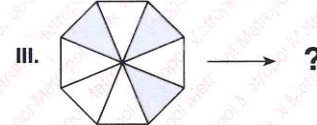
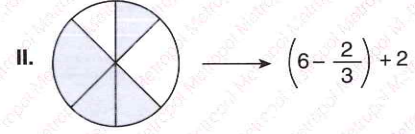
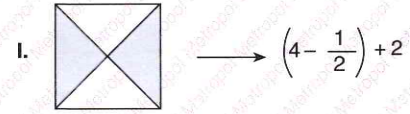
- A) 9
B) 12
C) 14
D) 18
E) 24

6.



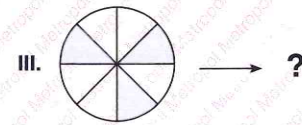
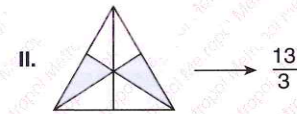
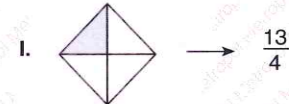
- A) $\frac{1}{2}$
B) 1
C) $\frac{3}{2}$
D) 2
E) $\frac{5}{2}$

7.



- A) 6
B) $\frac{49}{8}$
C) $\frac{25}{2}$
D) $\frac{101}{8}$
E) $\frac{51}{4}$

8.



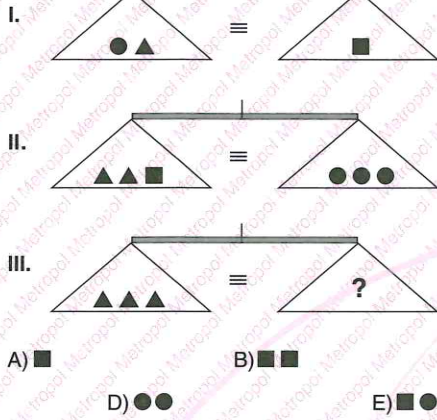
- A) $\frac{39}{8}$
B) 5
C) $\frac{41}{8}$
D) $\frac{21}{4}$
E) $\frac{43}{8}$



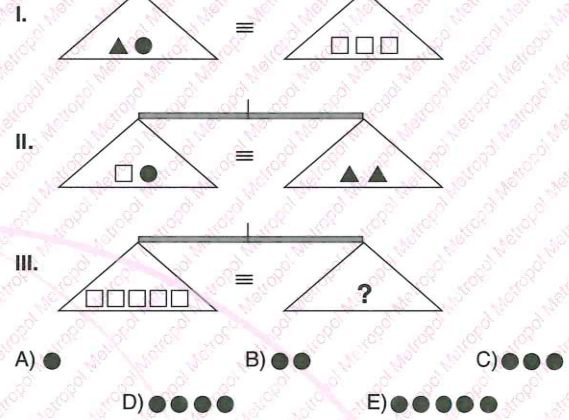
YANITLAR / ANSWERS

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

1.

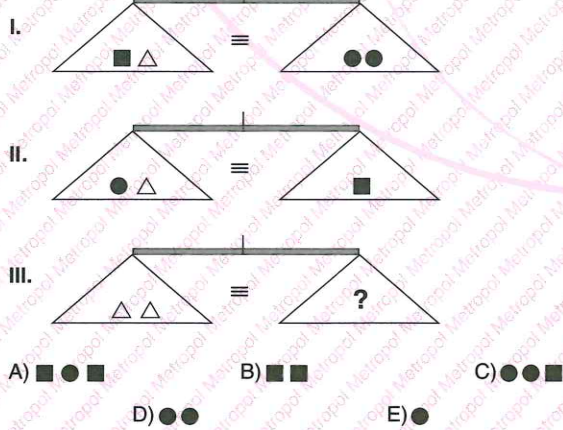


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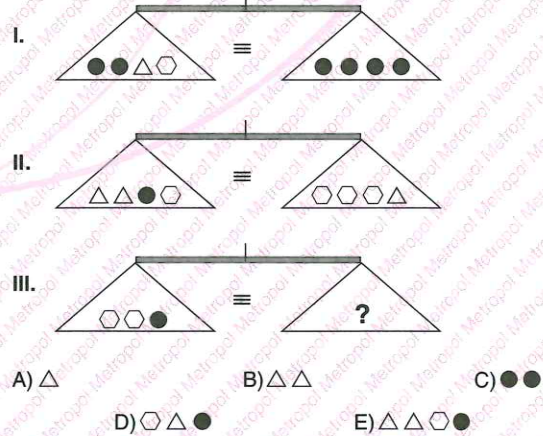


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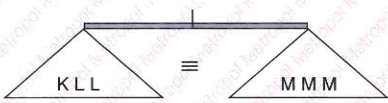
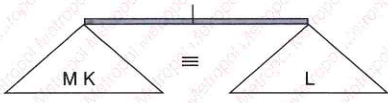
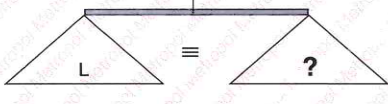
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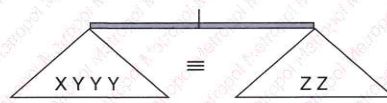
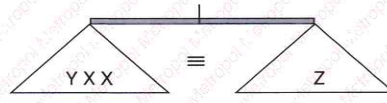
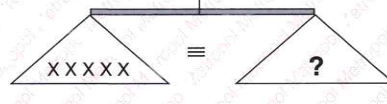
4.



5.

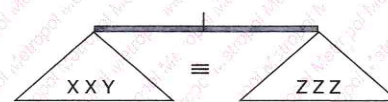
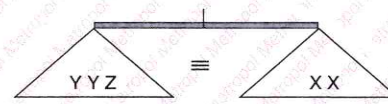
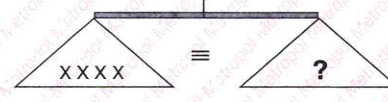
- I. 
- II. 
- III. 
- A) K B) KK C) KKK
D) KKKK E) KKKKK

7.

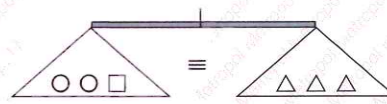
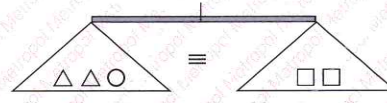
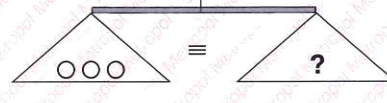
- I. 
- II. 
- III. 
- A) YXX B) YYYX C) YXXX
D) YYX E) YYYX

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6.

- I. 
- II. 
- III. 
- A) YYYYYZ B) YYYZZ C) YYZZ
D) ZZZYY E) ZZZY

8.

- I. 
- II. 
- III. 
- A) □□ B) △△ C) □△
D) □□△△ E) △△□

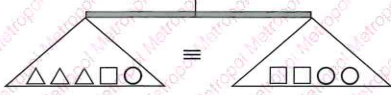


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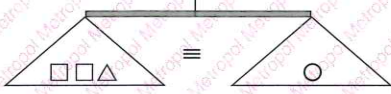
1	D	3	C	5	D	7	A
2	E	4	D	6	E	8	C

1.

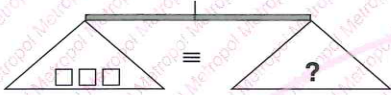
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II.

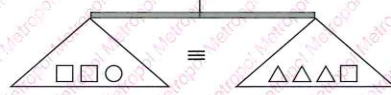


III.

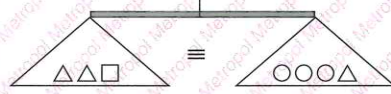
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3.

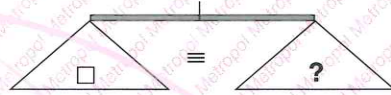
I.



II.



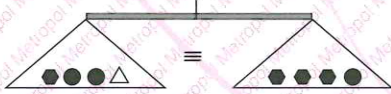
III.

A) $\bigcirc \triangle$ B) $\bigcirc \bigcirc \triangle$ C) $\triangle \triangle \bigcirc$ D) $\bigcirc \bigcirc \triangle \triangle$ E) $\triangle \triangle \triangle \bigcirc$

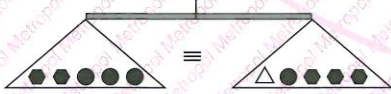
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2.

I.



II.



III.

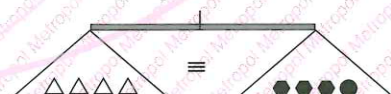
A) $\bullet \bullet \bullet$ B) $\bullet \bullet \bullet \triangle$ C) $\bullet \bullet$ D) $\bullet \bullet \bullet \bullet \bullet$ E) $\triangle \triangle \bullet \bullet \bullet$

4.

I.



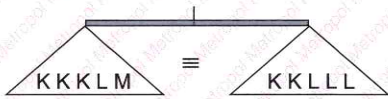
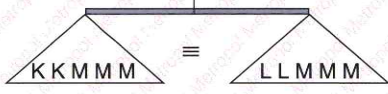
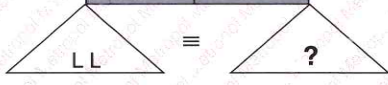
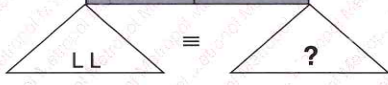
II.



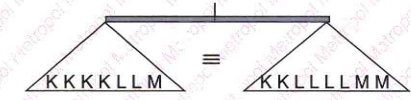
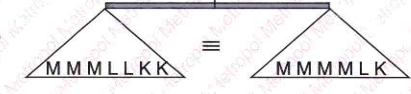
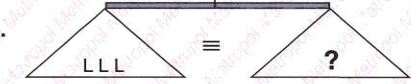
III.

A) $\triangle \triangle$ B) $\bullet \bullet \bullet$ C) $\triangle \bullet$ D) $\triangle \triangle \bullet$ E) $\bullet \bullet \bullet \triangle$

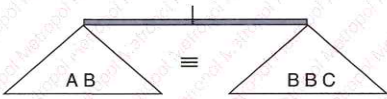
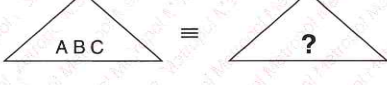
5.

- I.  I. 
- II. 
- III. 
- A) M B) MM C) MMM
D) MMMM E) MMMMM

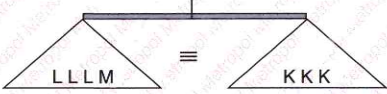
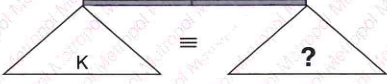
6.

- I. 
- II. 
- III. 
- A) K B) KK C) M
D) MM E) KM

7.

- I. 
- II. 
- III. 
- A) CCC B) AAA C) BBB
D) BB E) CC

8.

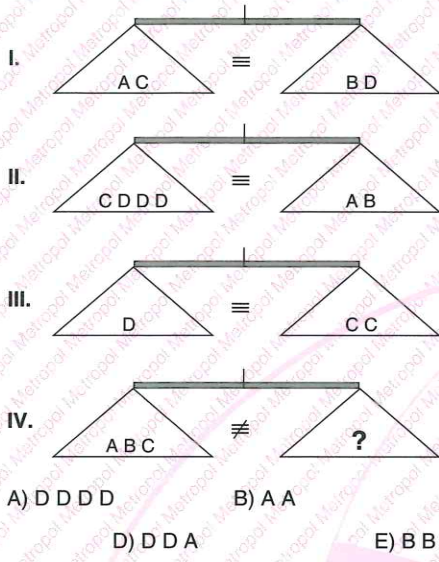
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- II. 
- III. 
- A) L B) M C) LM
D) MMM E) LLLL



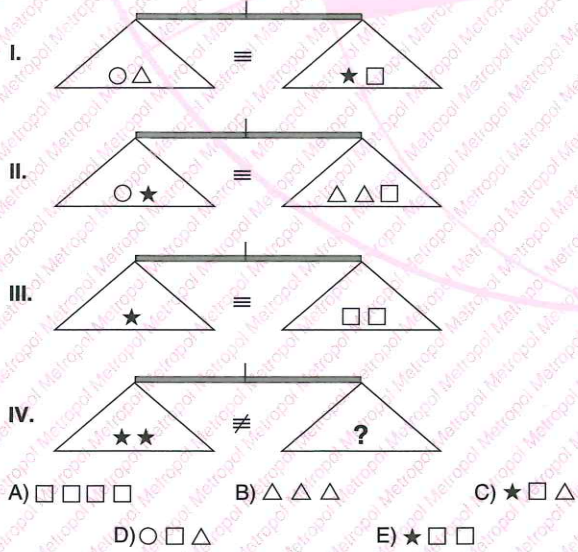
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1	B	3	A	5	B	7	C
2	B	4	C	6	A	8	E

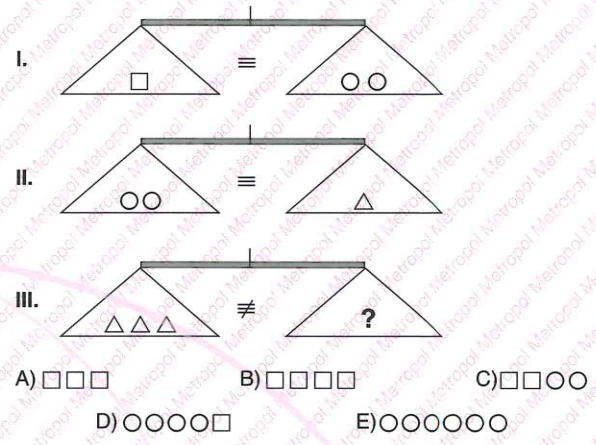
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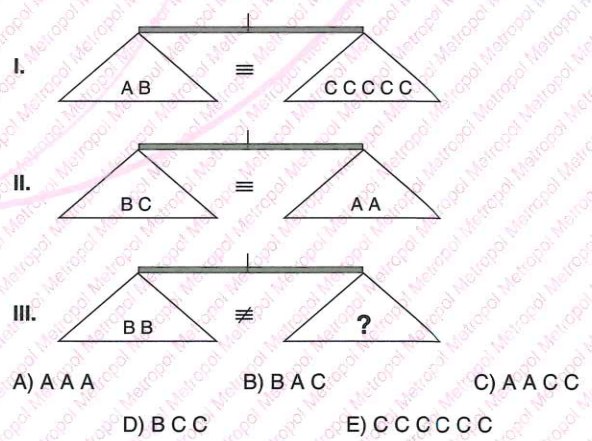
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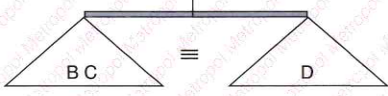
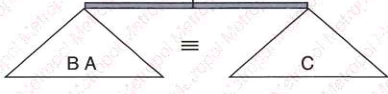
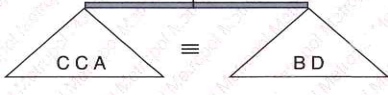
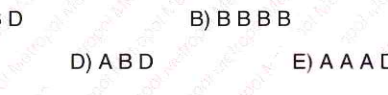
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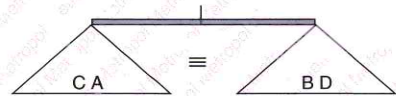
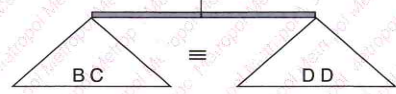
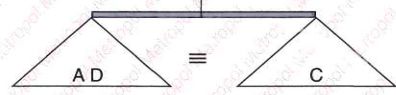
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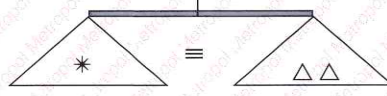
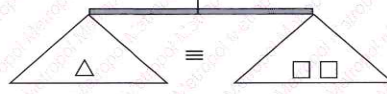
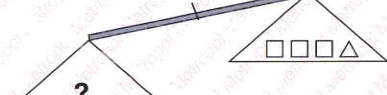
5.

- I.  I. 
- II. 
- III. 
- IV. 
- A) B D B) B B B B C) D D
D) A B D E) A A A D

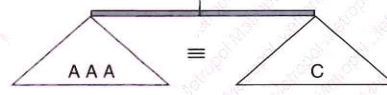
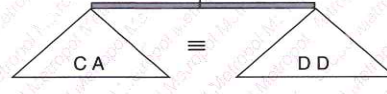
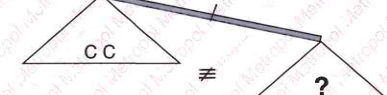
6.

- I. 
- II. 
- III. 
- IV. 
- A) B B D B) B B B A C) C B A
D) B B C E) A B

7.

- I. 
- II. 
- III. 
- A) △ △ □ B) * * C) □ △
D) △ △ E) * □

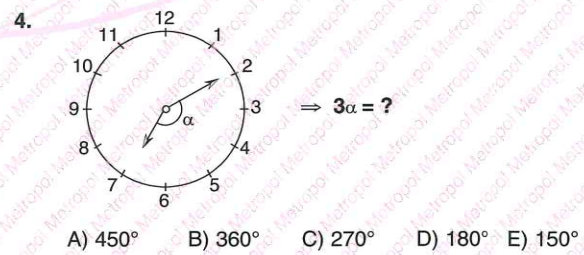
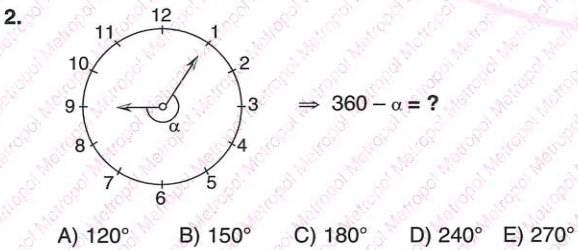
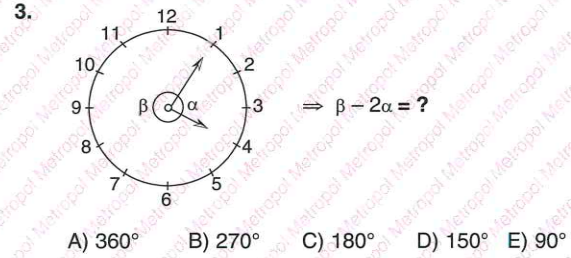
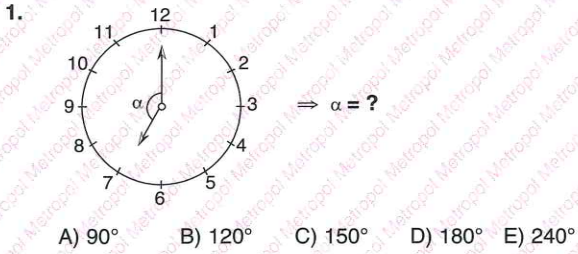
8.

- I. 
- II. 
- III. 
- A) D D D B) A A A A C) D D A
D) A A A D E) D D D A

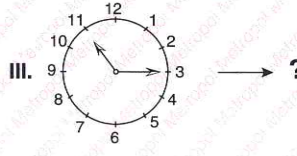
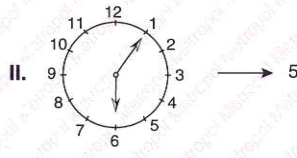
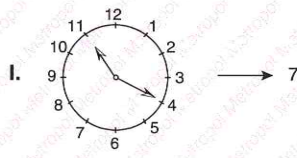


YANITLAR / ANSWERS

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

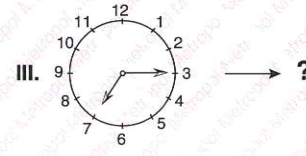
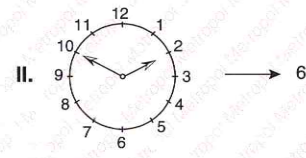
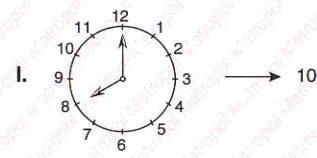


5.



A) 5 B) 6 C) 7 D) 8 E) 9

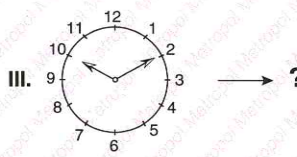
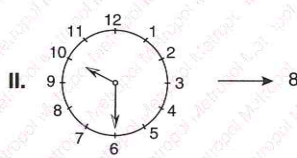
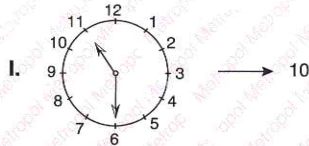
7.



A) 1 B) 2 C) 3 D) 4 E) 5

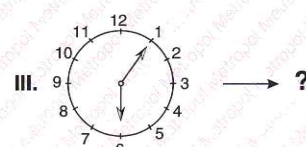
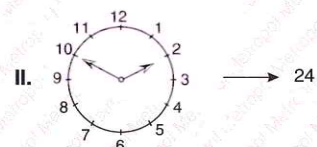
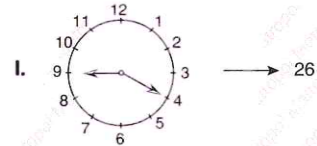
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6.



A) 10 B) 12 C) 12 D) 16 E) 18

8.



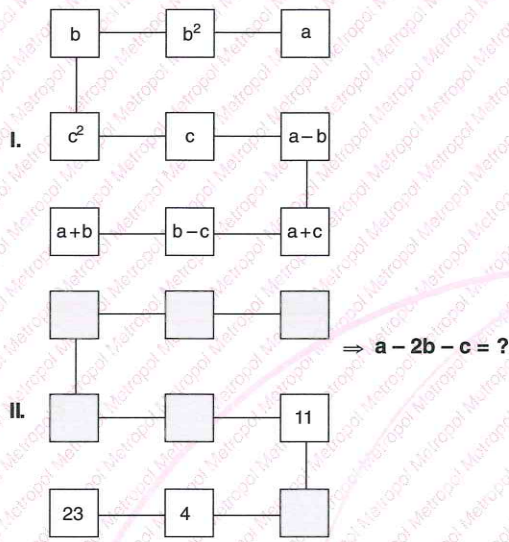
A) 12 B) 13 C) 14 D) 15 E) 16



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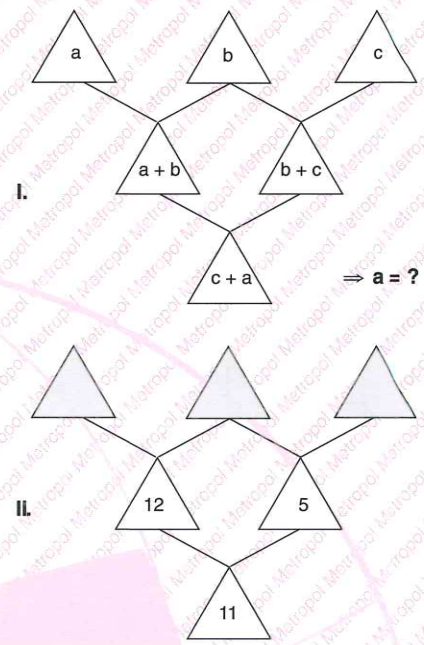
1	C	3	E	5	D	7	E
2	A	4	A	6	D	8	C

1.



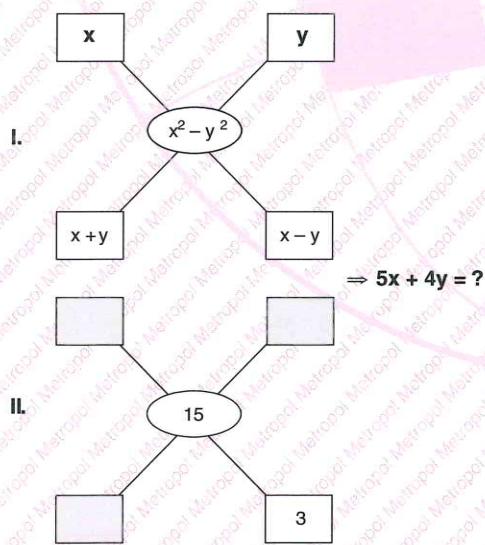
- A) 1 B) 2 C) 3 D) 4 E) 5

3.



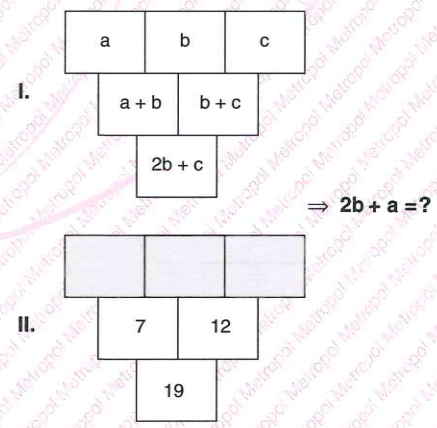
- A) 1 B) 3 C) 5 D) 7 E) 9

2.



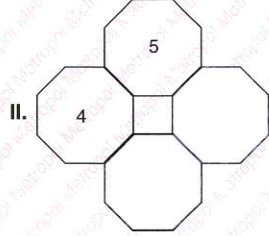
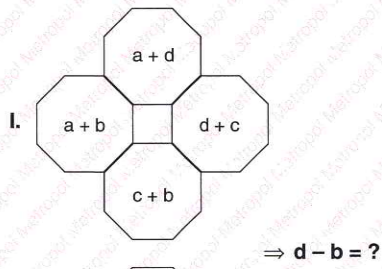
- A) 20 B) 22 C) 24 D) 26 E) 28

4.



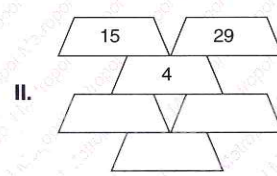
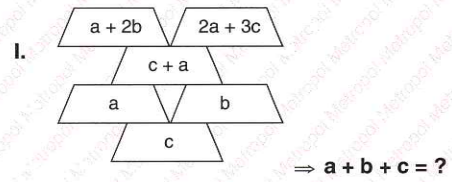
- A) 10 B) 11 C) 12 D) 13 E) 14

5.



- A) 0 B) 1 C) 2 D) 3 E) 4

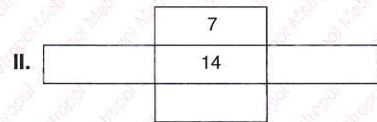
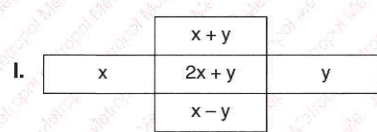
7.



- A) 20 B) 21 C) 22 D) 23 E) 24

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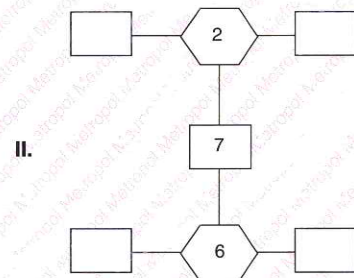
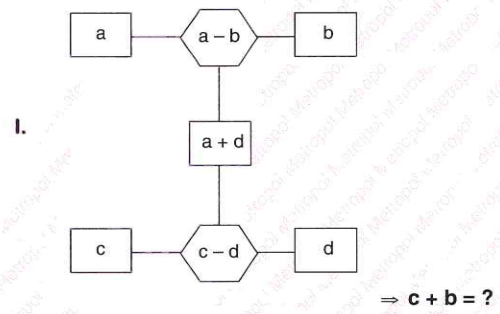
6.



$\Rightarrow x - 3y = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

8.



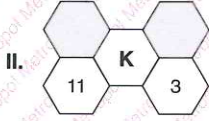
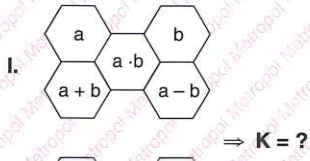
- A) 10 B) 11 C) 12 D) 13 E) 14



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

1.

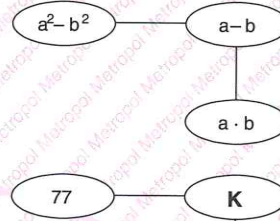


- A) 21
B) 24
C) 28
D) 32
E) 36

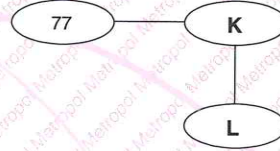
3.

$a, b \in \mathbb{Z}^+$
 $a - b \neq 1$

I.



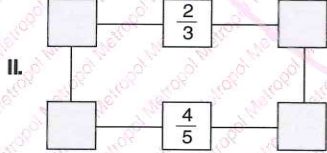
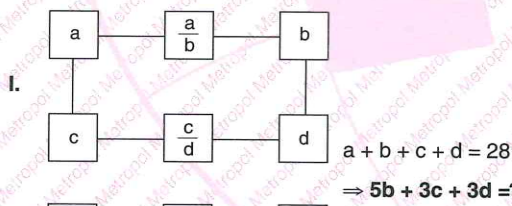
II.



- A) 120
B) 124
C) 126
D) 128
E) 130

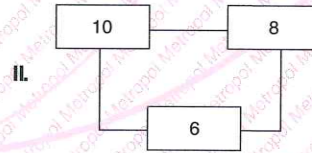
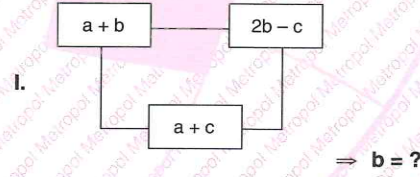
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2.



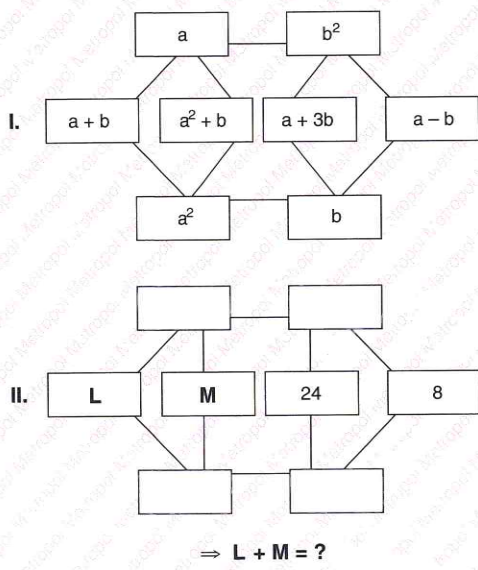
- A) 52
B) 66
C) 78
D) 84
E) 92

4.



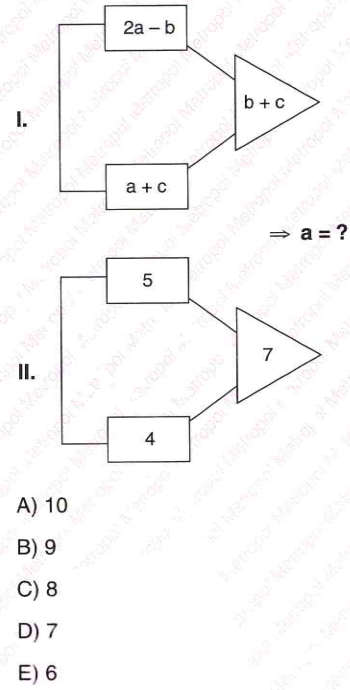
- A) 1
B) 2
C) 3
D) 4
E) 5

5.



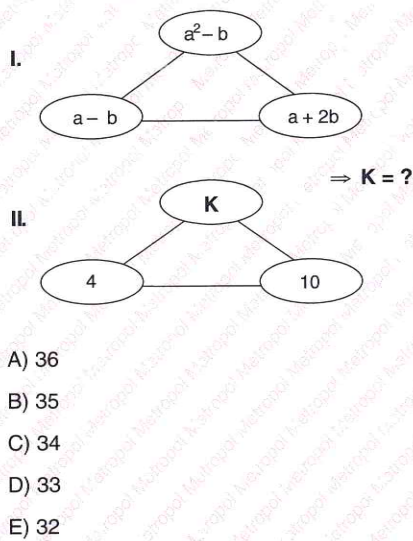
- A) 162 B) 164 C) 166 D) 168 E) 170

7.



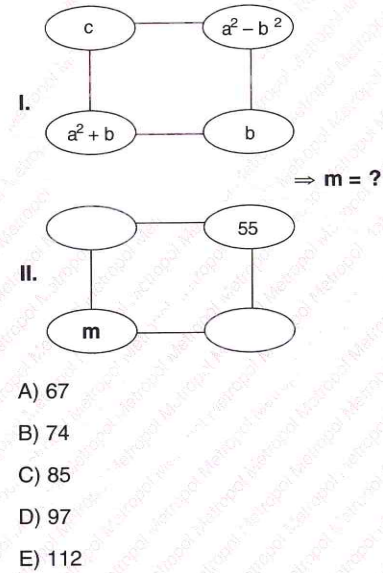
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6.



8.

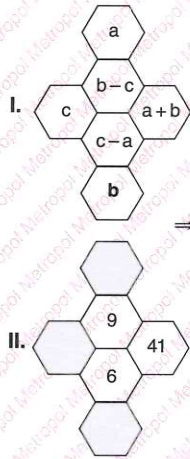
$a, b \in \mathbb{Z}^+$
 $a - b \neq 1$



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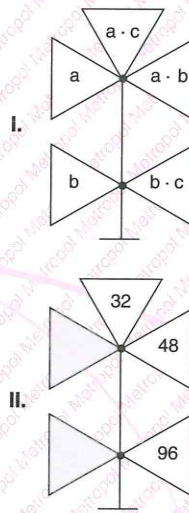
1	C	3	C	5	B	7	C
2	D	4	D	6	C	8	A

1.

 $\Rightarrow b = ?$

- A) 8 B) 11 C) 19 D) 24 E) 28

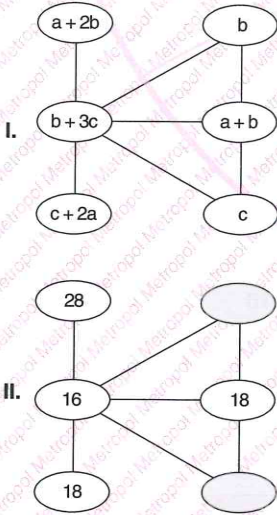
3.

 $\Rightarrow a + b + c = ?$

- A) 23 B) 24 C) 25 D) 26 E) 27

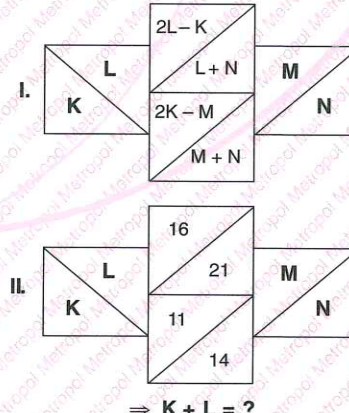
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2.

 $\Rightarrow a + b + c = ?$

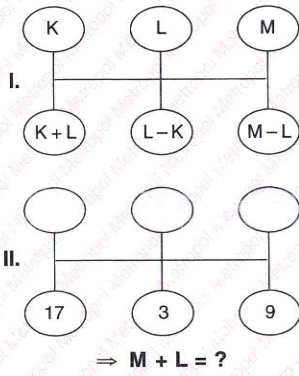
- A) 16 B) 18 C) 20 D) 22 E) 24

4.

 $\Rightarrow K + L = ?$

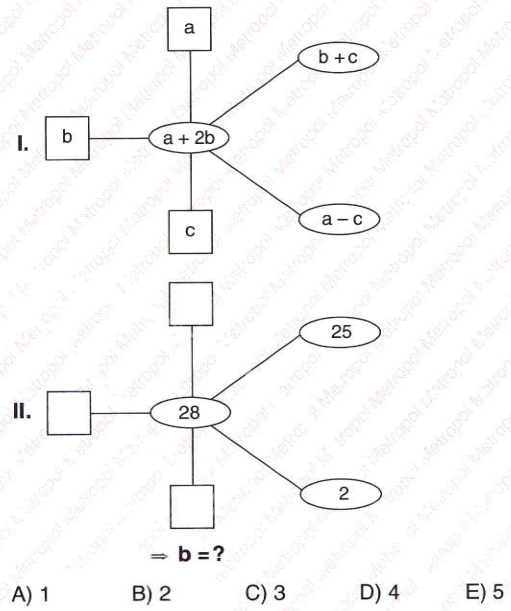
- A) 18 B) 19 C) 20 D) 21 E) 22

5.

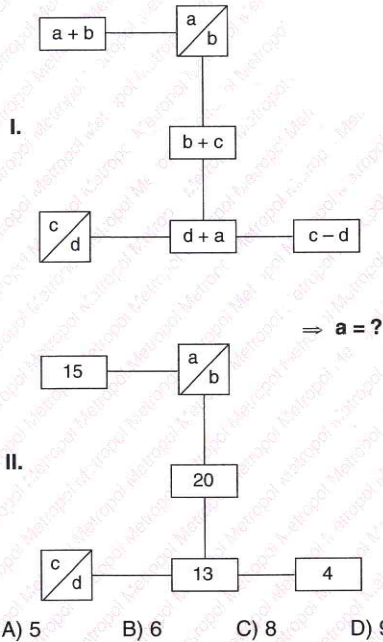


- A) 26
B) 27
C) 28
D) 29
E) 30

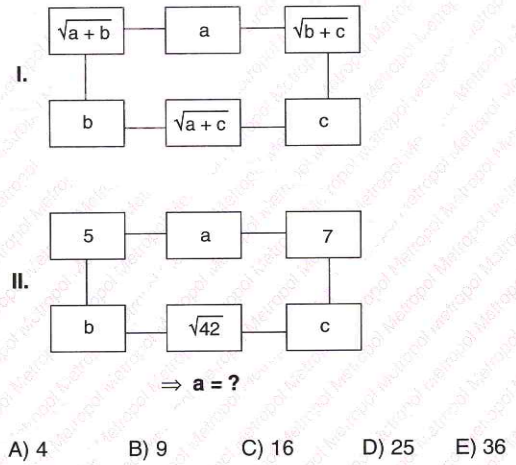
7.



6.



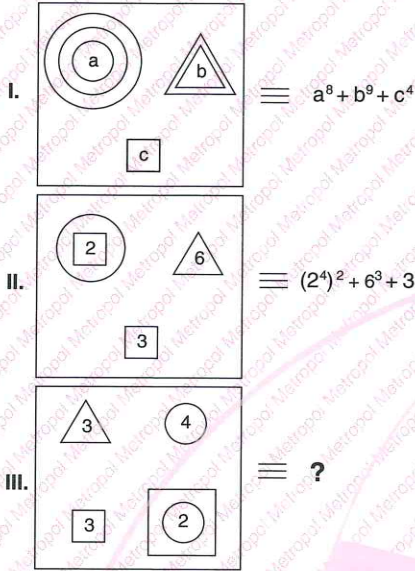
8.



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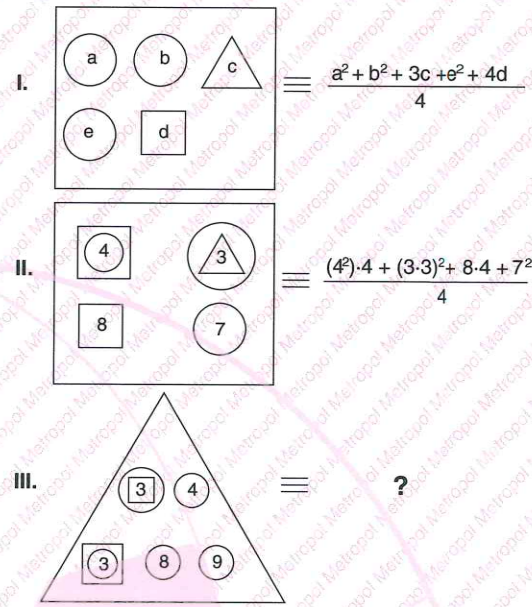
1	E	3	B	5	D	7	A
2	C	4	C	6	B	8	B

1.



- A) 380 B) 381 C) 382 D) 383 E) 384

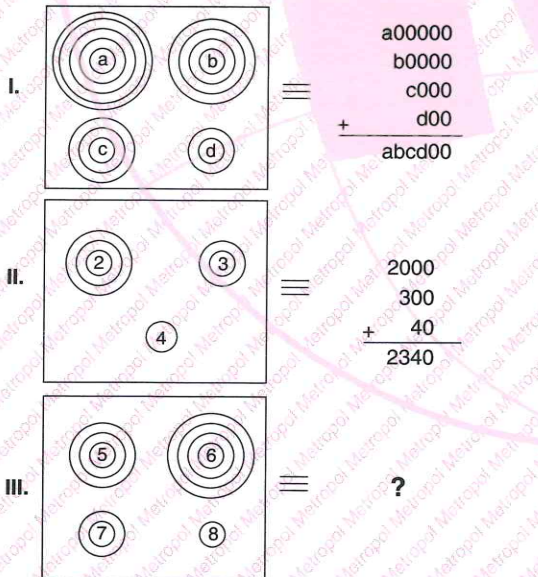
3.



- A) $\frac{345}{3}$ B) $\frac{344}{3}$ C) $\frac{342}{3}$ D) $\frac{341}{3}$ E) $\frac{361}{3}$

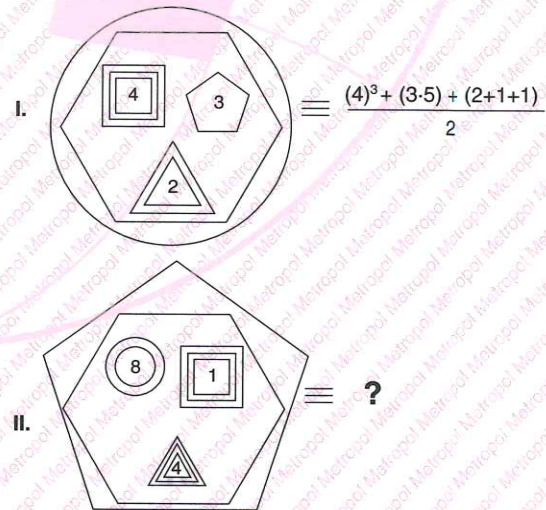
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2.



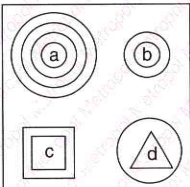
- A) 65780 B) 65880 C) 65982
D) 64852 E) 65954

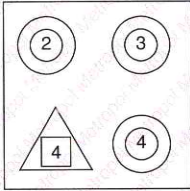
4.

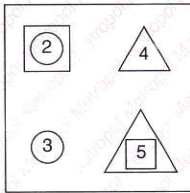


- A) 40 B) 50 C) 60 D) 70 E) 80

5.

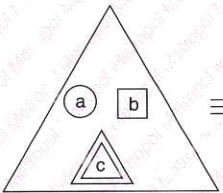
I.  $\equiv \frac{a^5 + b^3 + 4 \cdot 4 \cdot c + (d \cdot 3)^2}{4}$

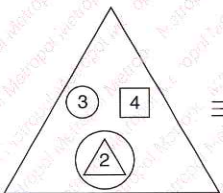
II.  $\equiv \frac{147}{4}$

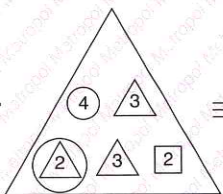
III.  $\equiv ?$

- A) $\frac{97}{4}$ B) $\frac{99}{4}$ C) $\frac{101}{4}$ D) $\frac{115}{4}$ E) $\frac{123}{4}$

6.

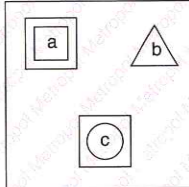
I.  $\equiv \frac{a^2 + b^4 + (c^3)^3}{3}$

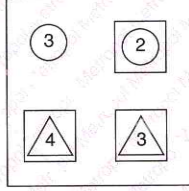
II.  $\equiv \frac{3^2 + 4^4 + (2^3)^2}{3} = \frac{329}{3}$

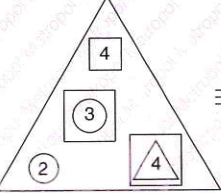
III.  $\equiv ?$

- A) 42 B) 46 C) 48 D) 50 E) 55

7.

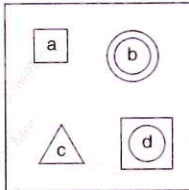
I.  $\equiv (4 \cdot 4 \cdot a + 3 \cdot b + (c^2) \cdot 4) \cdot 4$

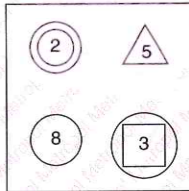
II.  $\equiv 109 \cdot 4$

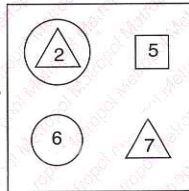
III.  $\equiv ?$

- A) 310 B) 311 C) 312 D) 313 E) 314

8.

I.  $\equiv 4a + b^3 + 3c + 4d^2$

II.  $\equiv 2^3 + 3 \cdot 5 + 8^2 + (3 \cdot 4)^2$

III.  $\equiv ?$

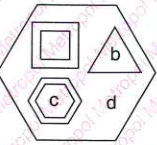
- A) 110 B) 111 C) 112 D) 113 E) 114

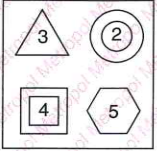


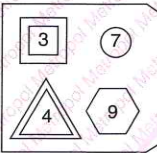
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1	A	3	D	5	A	7	C
2	A	4	B	6	D	8	D

1.

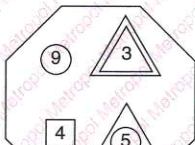
I.  $\equiv \frac{(a + 4 + 4) + (b \cdot 3) + (c \cdot 6 \cdot 6) + (d)^2}{6}$

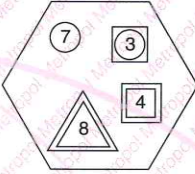
II.  $\equiv \frac{(3 \cdot 3) + (2^2)^2 + (4 + 4 + 4) + (5 \cdot 6)}{4}$

III.  $\equiv ?$

- A) 29 B) 30 C) 31 D) 32 E) 33

3.

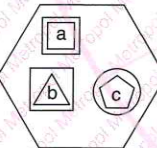
I.  $\equiv \frac{9^2 + 3 \cdot 3 \cdot 3 + 4 \cdot 4 + (5^2) \cdot 3}{8}$

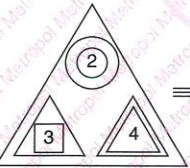
II.  $\equiv ?$

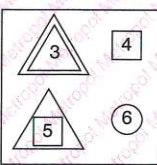
- A) $\frac{220}{7}$ B) $\frac{221}{6}$ C) $\frac{222}{7}$ D) $\frac{225}{6}$ E) $\frac{223}{6}$

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2.

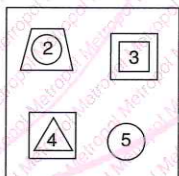
I.  $\equiv ((a \cdot 4 \cdot 4) + (b \cdot 3 \cdot 4) + (c \cdot 5)^2) \cdot 6$

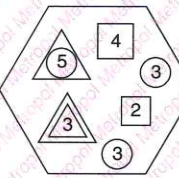
II.  $\equiv [(2^2)^2 + (3 \cdot 4 \cdot 3) + (4 \cdot 3 \cdot 3)] \cdot 3$

III.  $\equiv ?$

- A) 553 B) 554 C) 556 D) 557 E) 558

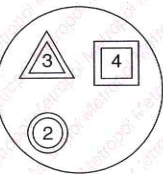
4.

I.  $\equiv \frac{[(2^2) \cdot 4] + (3 \cdot 4 \cdot 4) + 5^2 + (4 \cdot 3 \cdot 4)}{4}$

II.  $\equiv ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

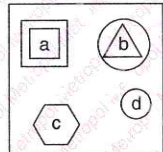
5.

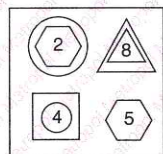
I.  $\equiv (3+3+3) + (4+4+4) + (2+1+1) = 52$

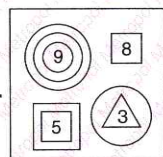
II.  $\equiv ?$

- A) 27 B) 28 C) 29 D) 30 E) 31

6.

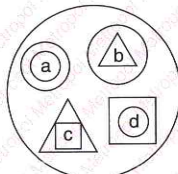
I.  $\equiv (4+4+a) + (2+3+b) + (6+c) + (2+d)$

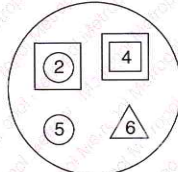
II.  $\equiv (2+6+2) + (3+3+8) + (4+2+4) + (6+5) = 45$

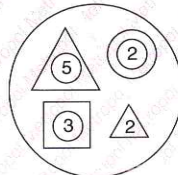
III.  $\equiv ?$

- A) 45 B) 46 C) 47 D) 48 E) 49

7.

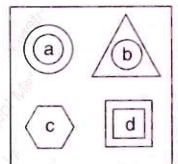
I.  $\equiv (a^2)^2 + (3b)^2 + 3 \cdot 4 \cdot c + 4d^2$

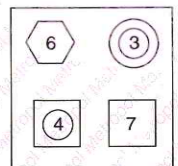
II.  $\equiv 4 \cdot 2^2 + 4 \cdot 4 \cdot 4 + 5^2 + 3 \cdot 6$

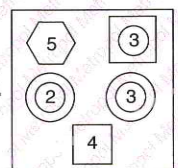
III.  $\equiv ?$

- A) 130 B) 131 C) 132 D) 133 E) 134

8.

I.  $\equiv a^3 + 3b^2 + 6c + 4 \cdot 4 \cdot d$

II.  $\equiv 6 \cdot 6 + 3^3 + 4 \cdot 4^2 + 4 \cdot 7$

III.  $\equiv ?$

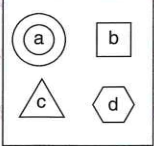
- A) 110 B) 113 C) 117 D) 119 E) 121

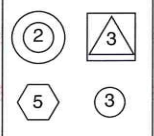


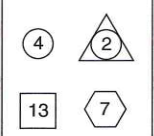
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1	B	3	B	5	E	7	D
2	C	4	E	6	D	8	C

1.

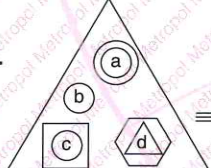
I.  $\equiv (a^2)^2 + 4b + 3c + 6d$

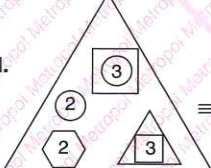
II.  $\equiv (2^2)^2 + 3 \cdot 3 \cdot 4 + 5 \cdot 6 + 3^2$

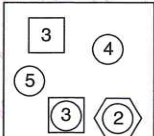
III.  $\equiv ?$

- A) 121 B) 122 C) 124 D) 125 E) 127

2.

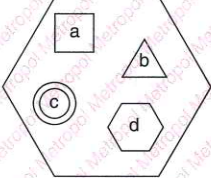
I.  $\equiv (a^2)^2 + b^2 + c^2 \cdot 4 + (3d) \cdot 6$

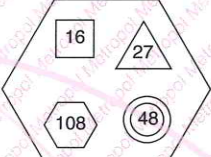
II.  $\equiv 2^2 + (3^2) \cdot 4 + 2 \cdot 6 + 3 \cdot 4 \cdot 3$

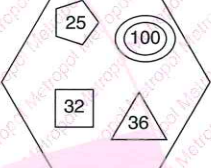
III.  $\equiv ?$

- A) 110 B) 111 C) 112 D) 113 E) 114

3.

I.  $\equiv \frac{a}{4} + \frac{b}{3} + \frac{c}{2} + \frac{d}{6}$

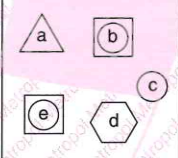
II.  $\equiv \frac{16}{4} + \frac{27}{3} + \frac{108}{6} + \frac{48}{2}$

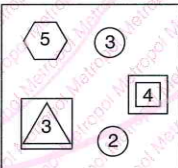
III.  $\equiv ?$

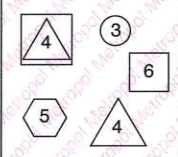
- A) 47 B) 48 C) 49 D) 50 E) 51

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4.

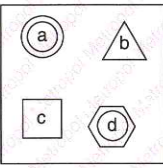
I.  $\equiv 3a + 4b^2 + 4e^2 + c^2 + 6d$

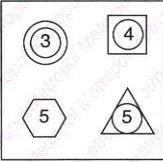
II.  $\equiv 2^2 + 5 \cdot 6 + 3^2 + 4 \cdot 4 + 3 \cdot 3 \cdot 4$

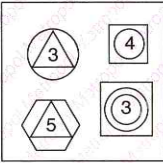
III.  $\equiv ?$

- A) 120 B) 123 C) 125 D) 127 E) 129

5.

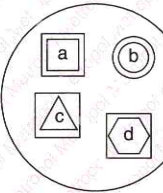
I.  $\equiv 2 \cdot 2 \cdot a + 3b + 4c + (2d) \cdot 6$

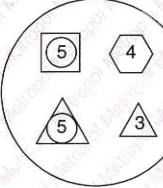
II.  $\equiv 2 \cdot 2 \cdot 3 + 2 \cdot 4 \cdot 4 + 6 \cdot 5 + 3 \cdot 2 \cdot 5$

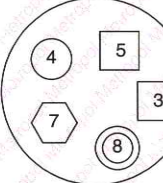
III.  $\equiv ?$

- A) 180 B) 183 C) 185 D) 186 E) 188

6.

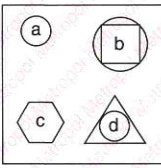
I.  $\equiv (4 + 4 + a) + (2 + 2 + b) + (4 + 3 + c) + (4 + d + 6)$

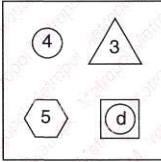
II.  $\equiv (5 + 2 + 4) + (4 + 6) + (3 + 2 + 5) + (3 + 3)$

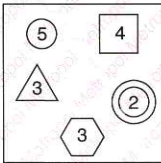
III.  $\equiv ?$

- A) 44 B) 45 C) 46 D) 47 E) 48

7.

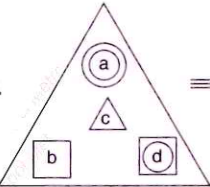
I.  $\equiv a^2 + (4b)^2 + 6c + 3d^2$

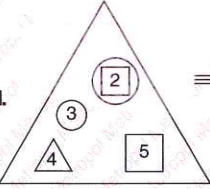
II.  $\equiv 4^2 + 3 \cdot 3 + 6 \cdot 5 + 4 d^2$

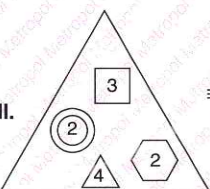
III.  $\equiv ?$

- A) 80 B) 81 C) 82 D) 83 E) 84

8.

I.  $\equiv (a^2)^2 + (b)^4 + c^3 + (d^2)^4$

II.  $\equiv 3^2 + (2^4)^2 + 4^3 + 5^4$

III.  $\equiv ?$

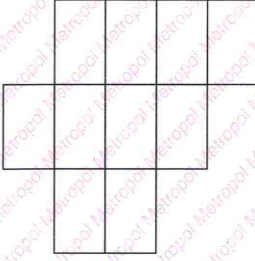
- A) 220 B) 221 C) 222 D) 224 E) 225



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

1.



Şekilde kaç tane dikdörtgen vardır?

- A) 23 B) 27 C) 30 D) 33 E) 37

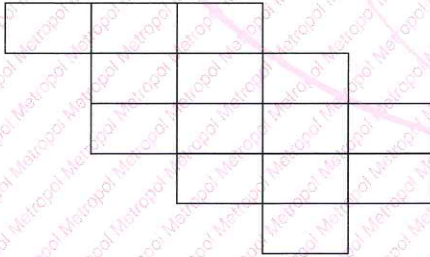
3.



Şekilde kaç tane dikdörtgen vardır?

- A) 45 B) 48 C) 51 D) 54 E) 57

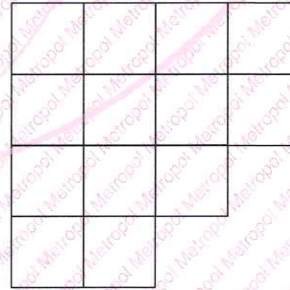
2.



Şekilde kaç tane dikdörtgen vardır?

- A) 43 B) 45 C) 47 D) 50 E) 53

4.

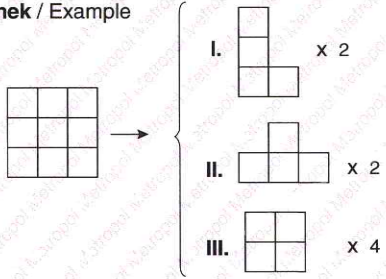


Şekilde kaç tane kare vardır?

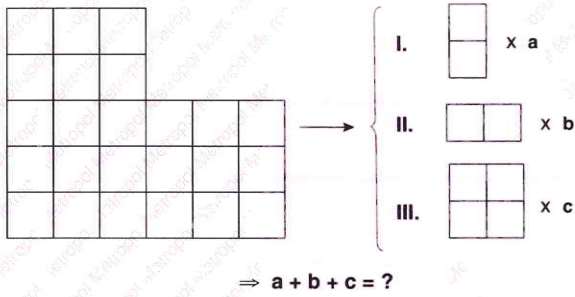
- A) 15 B) 18 C) 20 D) 22 E) 25

5 - 8. soruları aşağıdaki örnekte verilen ilişkiye göre cevaplayınız.
Answer questions 5 - 8, in accordance with the relation established in the example below.

Örnek / Example

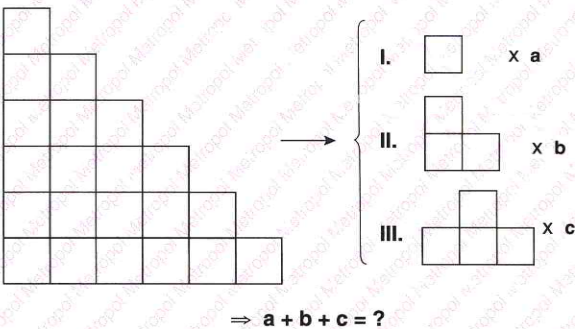


5.



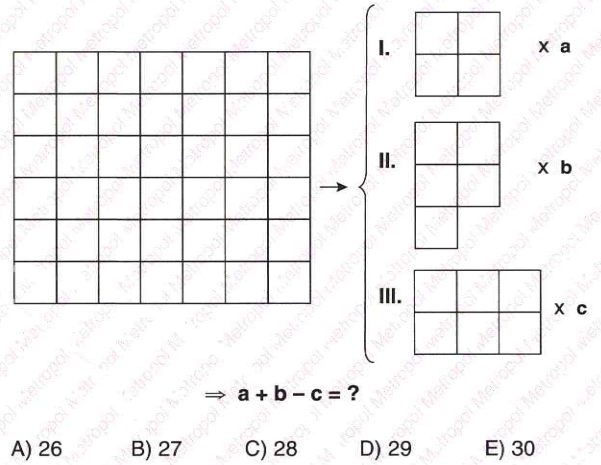
- A) 50 B) 51 C) 52 D) 53 E) 54

6.

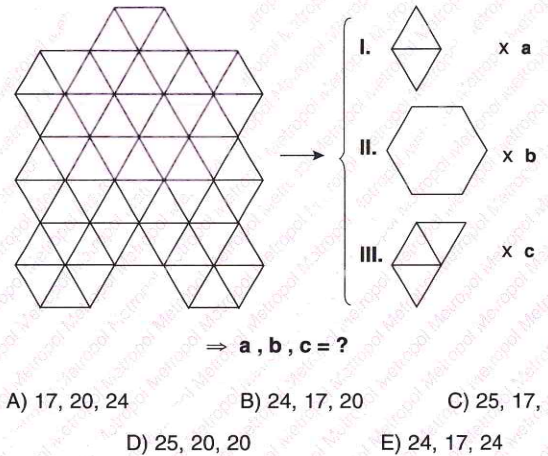


- A) 46 B) 47 C) 48 D) 49 E) 50

7.



8.



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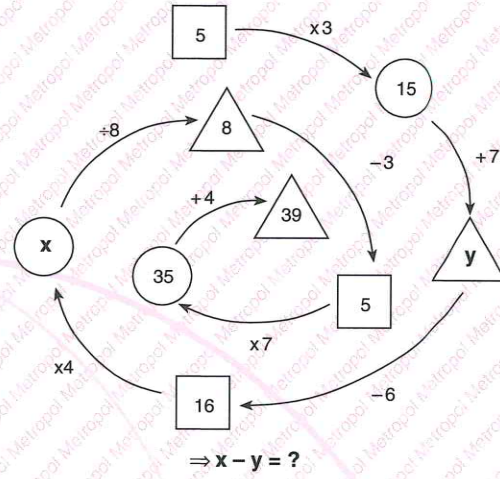
1	D	3	B	5	B	7	D
2	C	4	C	6	A	8	B

1.

10	7	9
5	8	6
4	?	13
11		2
12	14	8
3	1	7

- A) 9
B) 3
C) 8
D) 8
E) 7

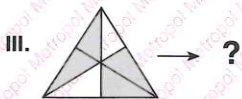
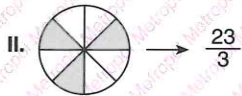
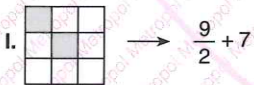
3.



- A) 40
B) 42
C) 44
D) 46
E) 47

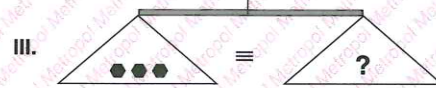
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2.



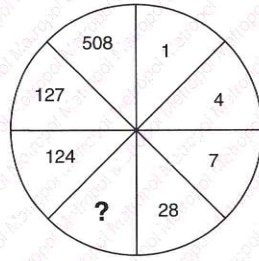
- A) $\frac{5}{2}$ B) 3 C) $\frac{7}{2}$ D) 4 E) $\frac{9}{2}$

4.



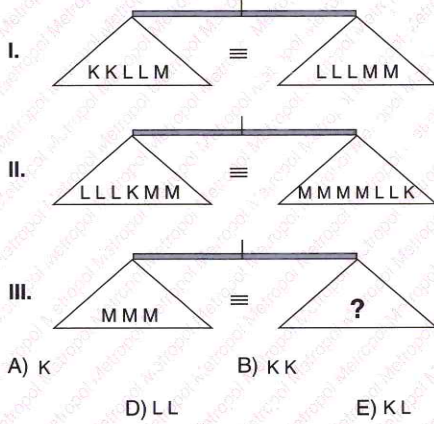
- A) ● B) ●● C) ●●●
D) ●●●● E) ●●●●●

5.

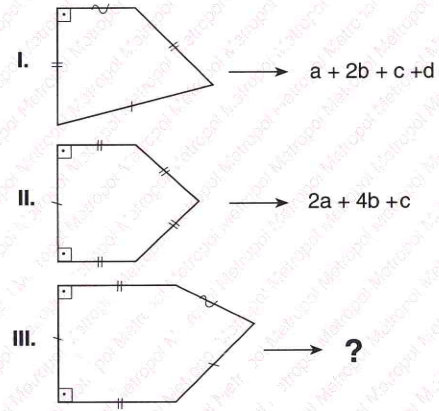


- A) 29
B) 30
C) 31
D) 32
E) 33

6.

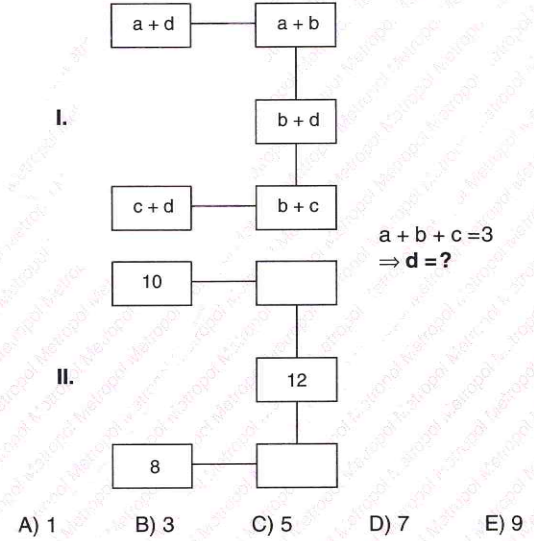


7.



- A) $2a + 2b + 2c$
B) $2a + 2b + 2c + d$
C) $2a + 3b + 3c + d$
D) $2a + 3b + 3c$
E) $2a + 2b + c + d$

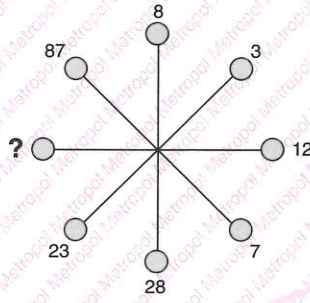
8.



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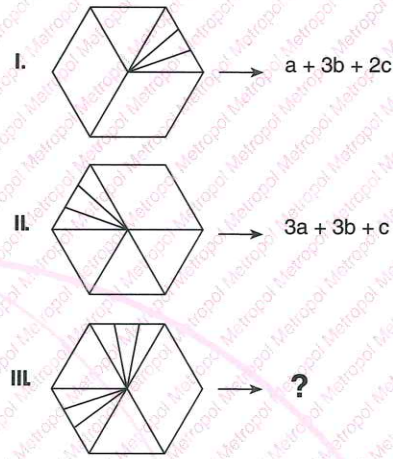
1	D	3	B	5	C	7	B
2	C	4	A	6	B	8	E

1.



- A) 86
B) 87
C) 89
D) 90
E) 92

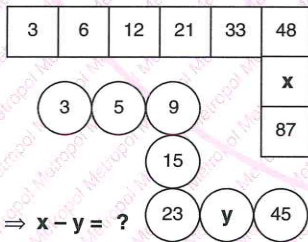
3.



- A) $2a + b + 6c$
B) $a + 2b + 6c$
C) $2a + 6b + c$
D) $a + 6b + 2c$
E) $6a + b + 2c$

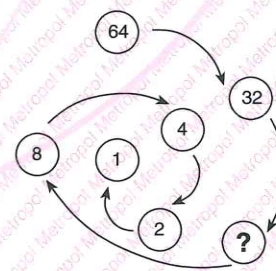
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2.



- A) 30
B) 31
C) 33
D) 35
E) 37

4.



- A) 14
B) 16
C) 18
D) 20
E) 22

5.

	128	108
125		48
	16	N
25		8
	2	3
5	4	



	M		18
5		6	
	8		2
5		2	



	64		36
K		12	

$$\Rightarrow K - (M + N) = ?$$

A) 11

B) 10

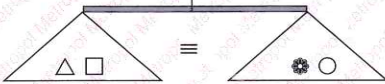
C) 9

D) 8

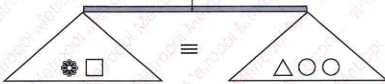
E) 7

6.

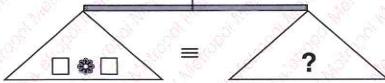
I.



II.

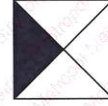


III.

A) $\triangle$ $\odot$ B) $\circ$ $\odot$ C) $\square$ $\triangle$ D) $\circ$ $\circ$ $\circ$ E) $\circ$ $\circ$ $\circ$ $\odot$

7.

I.



$$\rightarrow \frac{1}{4} + 3$$

II.



$$\rightarrow \frac{7}{2}$$

III.



$$\rightarrow ?$$

A) $\frac{7}{12}$ B) $\frac{2}{3}$ C) $\frac{9}{4}$ D) $\frac{13}{6}$ E) $\frac{13}{3}$

8.

5	3	7	2	1	3	2	4	2
	1	2	3	8	5	5	x	
		4	4	3	5	13		
			13	8	8			
				29				

$$\Rightarrow x = ?$$

A) 0

B) 1

C) 2

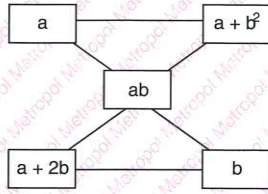
D) 3

E) 5

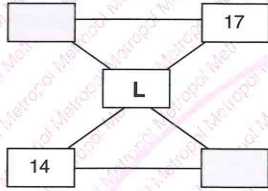


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1	E	3	C	5	A	7	E
2	C	4	B	6	E	8	E

1. $a, b \in \mathbb{Z}^+$ 

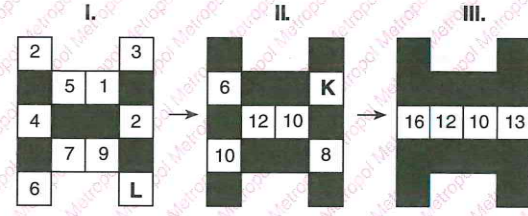
I.

 $\Rightarrow L = ?$ 

II.

- A) 12 B) 18 C) 24 D) 36 E) 48

3.



I.

II.

III.

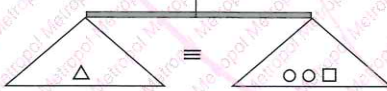
 $\Rightarrow K + L = ?$

- A) 7
B) 8
C) 9
D) 10
E) 11

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2.

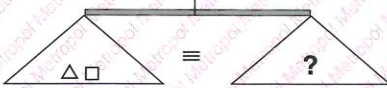
I.



II.

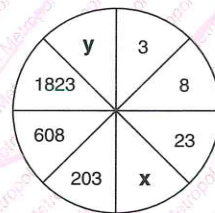


III.



- A) ○ □ B) □ □ □ □ C) ○ ○ ○
D) ○ ○ □ □ □ E) ○ ○ □

4.

 $\Rightarrow x = ?$ $\Rightarrow y = ?$

- A) 67, 5467
B) 68, 5468
C) 69, 5467
D) 71, 5469
E) 72, 5468

5.

I.  $\rightarrow \frac{8}{3} + 5$

II.  $\rightarrow 4$

III.  $\rightarrow ?$

A) $\frac{7}{2}$

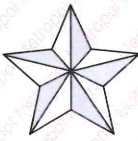
B) 4

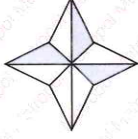
C) $\frac{9}{2}$

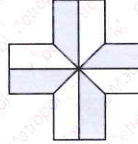
D) 5

E) $\frac{11}{2}$

7.

I.  $\rightarrow \left(\frac{10}{5}\right) + 5$

II.  $\rightarrow \frac{23}{5}$

III.  $\rightarrow ?$

A) 4

B) 6

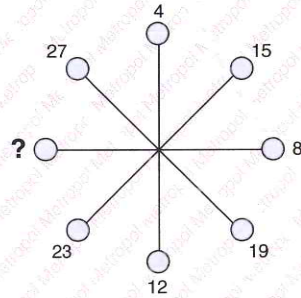
C) 8

D) 10

E) 12

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6.



A) 13

B) 14

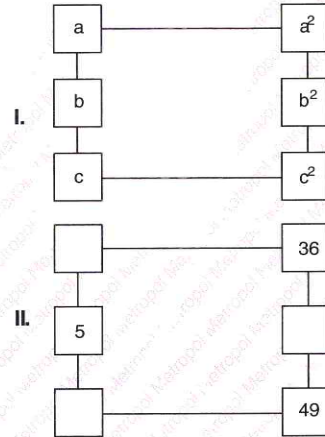
C) 15

D) 16

E) 17

8.

a, b, c $\in \mathbb{Z}^+$



$\Rightarrow b^2 + 3a - 4c = ?$

A) 5

B) 10

C) 15

D) 20

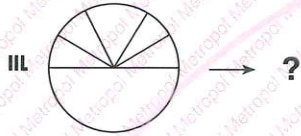
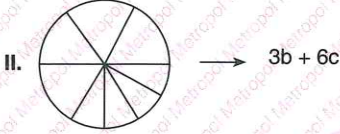
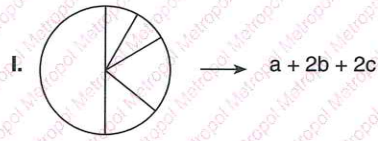
E) 25



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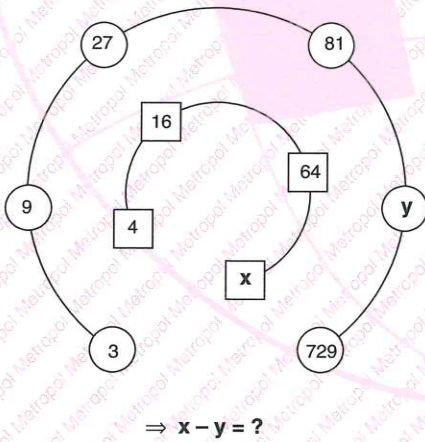
1	C	3	E	5	C	7	B
2	C	4	B	6	D	8	C

1.



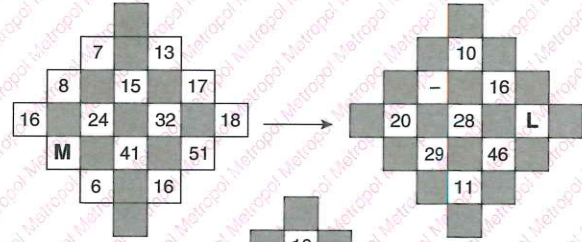
- A) $4a + b + c$
 B) $a + 4b + 2c$
 C) $a + 2b + 2c$
 D) $a + b + 4c$
 E) $a + 2b + 4c$

2.



- A) 10
 B) 11
 C) 12
 D) 13
 E) 14

3.

 $\Rightarrow M, K, L = ?$

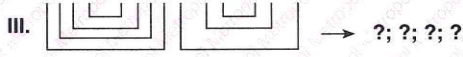
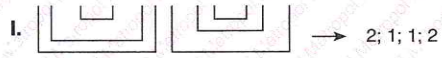
- A) 17, -, 24
 B) 25, -, 17
 C) 24, -, 11
 D) 17, -, 25
 E) 17, -, 11

4.



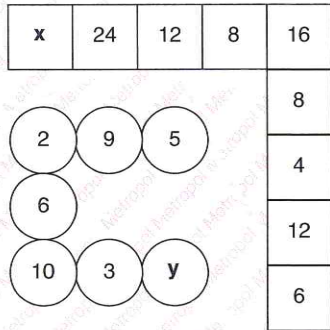
- A) 1
 B) 2
 C) 3
 D) 5
 E) 6

5.



- A) 2; 2; 1; 2
B) 2; 2; 2; 1
C) 1; 2; 2; 2
D) 2; 2; 2; 2
E) 2; 1; 2; 2

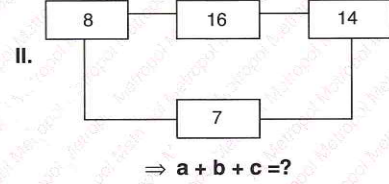
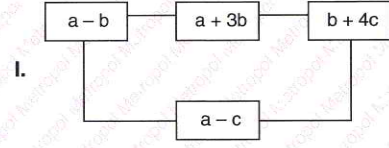
6.



$$\Rightarrow x - y = ?$$

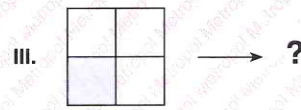
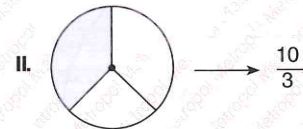
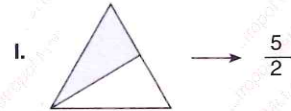
- A) 4
B) 5
C) 6
D) 7
E) 8

7.



- A) 12
B) 13
C) 14
D) 15
E) 16

8.

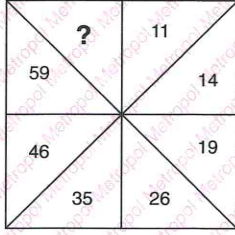


- A) $\frac{13}{4}$ B) 4 C) $\frac{17}{4}$ D) $\frac{9}{2}$ E) $\frac{19}{4}$

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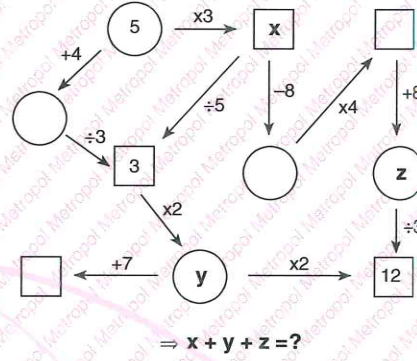
1	D	3	D	5	E	7	D
2	D	4	E	6	D	8	C

1.



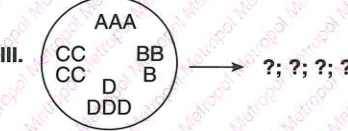
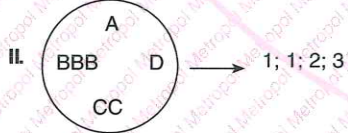
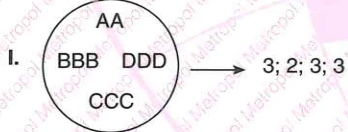
- A) 70
B) 71
C) 72
D) 73
E) 74

3.



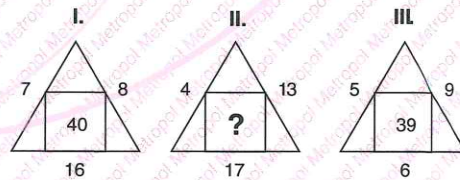
- A) 53
B) 54
C) 55
D) 56
E) 57

2.



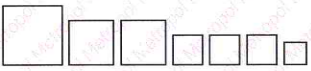
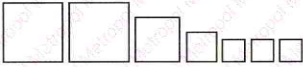
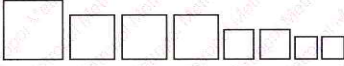
- A) 4; 4; 3; 3
B) 4; 3; 4; 3
C) 3; 4; 3; 4
D) 4; 3; 3; 4
E) 3; 4; 4; 3

4.



- A) 30
B) 31
C) 32
D) 34
E) 35

5.

I.  → 2; 1; 3; 1II.  → 1; 3; 1; 2III.  → ?; ?; ?; ?

- A) 3; 2; 1; 2
 B) 3; 1; 2; 2
 C) 2; 1; 3; 2
 D) 2; 3; 1; 2
 E) 3; 2; 2; 1

7.

3	3	6	4
	27	36	?
3	1	2	1

- A) 45
 B) 46
 C) 47
 D) 48
 E) 49

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6.

39	y	67		
28	2	4	3	9
19	12	7	4	8
				x
			63	

$x - y = ?$

- A) 8
 B) 10
 C) 11
 D) 12
 E) 14

8.

2	6	4	12
x	244	732	10
82	y	28	30

$$\Rightarrow x - y = ?$$

- A) 140
 B) 153
 C) 162
 D) 172
 E) 179

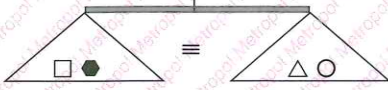


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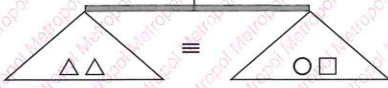
1	E	3	E	5	E	7	D
2	B	4	E	6	D	8	C

1.

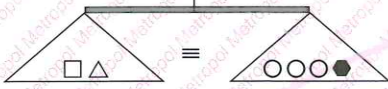
I.



II.



III.



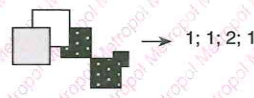
IV.



- A) ○○ B) ○○○ C) ○○○○
D) ○○○○○ E) ○○○○○○

3.

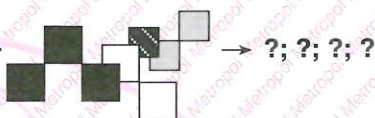
I.



II.



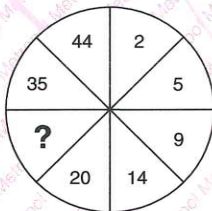
III.



- A) 3; 1; 2; 2
B) 3; 2; 2; 1
C) 2; 3; 1; 2
D) 2; 2; 1; 3
E) 3; 2; 1; 2

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2.



- A) 25
B) 27
C) 29
D) 31
E) 33

4.

I.

2		3		4
	4		2	
5		3		1
	2		4	
3		5		2



II.

	6		12	
		K		
	15		3	
		8		
	15		10	

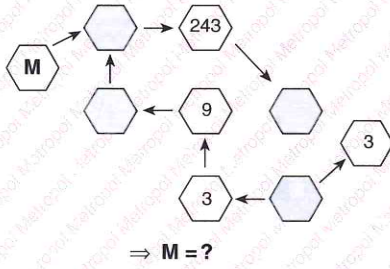
III.

		72		
		8		
		L		
		8		
		150		

⇒ K + L = ?

- A) 49 B) 50 C) 51 D) 52 E) 53

5.



- A) 3
B) 9
C) 27
D) 81
E) 108

7.

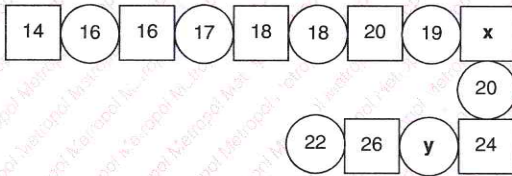
12	14	28	30	y
6				62
4				124
2				x
				252
				254

$$\Rightarrow x - y = ?$$

- A) 60
B) 62
C) 64
D) 66
E) 68

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6.



- A) 1
B) 2
C) 3
D) 4
E) 5

8.

15	14	x	41
5			
6	159	79	y
2	3	1	
			9
			4

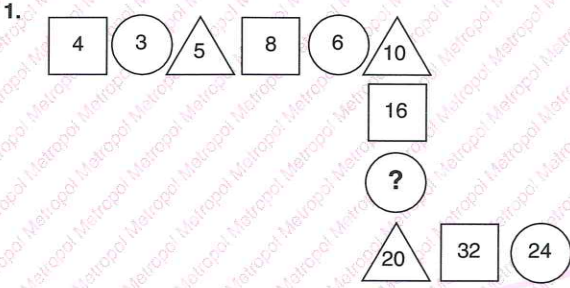
$$\Rightarrow x - y = ?$$

- A) 1
B) 2
C) 3
D) 4
E) 5

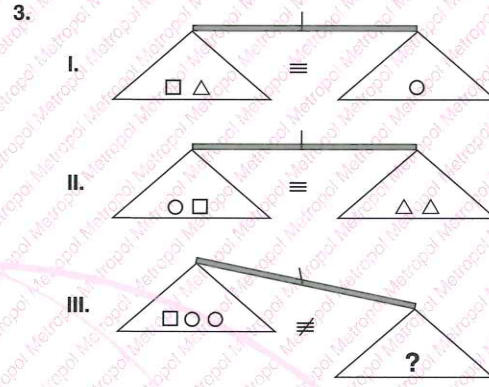


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1	D	3	E	5	C	7	D
2	B	4	E	6	A	8	C

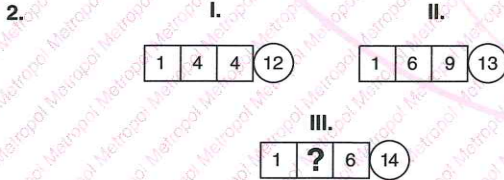


- A) 12
B) 14
C) 16
D) 17
E) 18

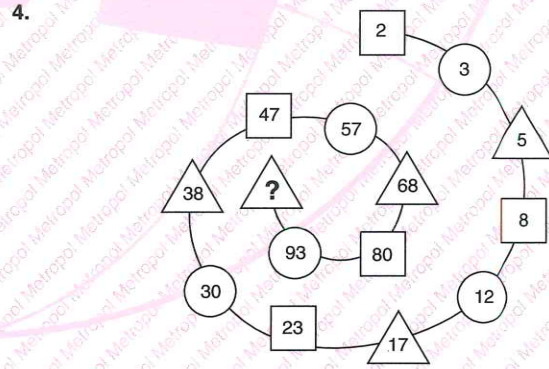


- A) $\triangle \square$ B) $\circ \circ$ C) $\triangle \square \square \triangle$
D) $\triangle \triangle \square$ E) $\triangle \triangle \circ \square$

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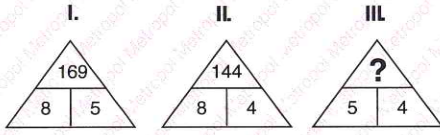


- A) 5
B) 6
C) 7
D) 8
E) 9



- A) 101
B) 103
C) 104
D) 107
E) 109

5.



- A) 80
B) 81
C) 82
D) 83
E) 84

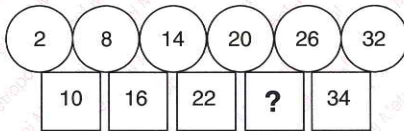
7.

I.	II.	III.												
<table><tr><td>3</td><td>27</td></tr><tr><td>12</td><td>9</td></tr></table>	3	27	12	9	<table><tr><td>4</td><td>64</td></tr><tr><td>16</td><td>16</td></tr></table>	4	64	16	16	<table><tr><td>5</td><td>?</td></tr><tr><td>20</td><td>25</td></tr></table>	5	?	20	25
3	27													
12	9													
4	64													
16	16													
5	?													
20	25													

- A) 100
B) 125
C) 150
D) 175
E) 200

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6.



- A) 24
B) 25
C) 26
D) 27
E) 28

8.

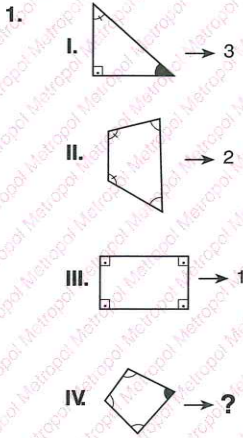
3	6	11	4	8
36	41	34		13
?				6
25	20	10	17	12

- A) 15 B) 16 C) 18 D) 20 E) 21

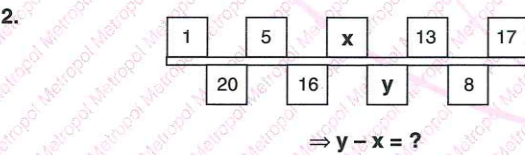


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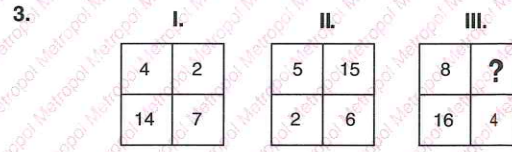
1	A	3	E	5	B	7	B
2	E	4	D	6	E	8	C



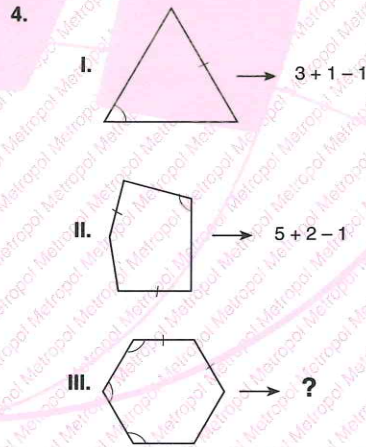
- A) 1 B) 2 C) 3 D) 4 E) 5



- A) 1
B) 2
C) 3
D) 4
E) 5



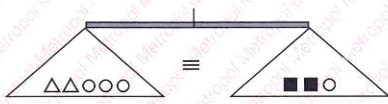
- A) 1
B) 2
C) 3
D) 4
E) 5



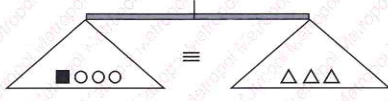
- A) 2
B) 3
C) 4
D) 5
E) 6

5.

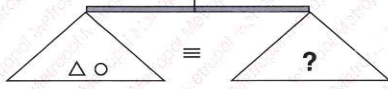
I.



II.



III.



A) ■■

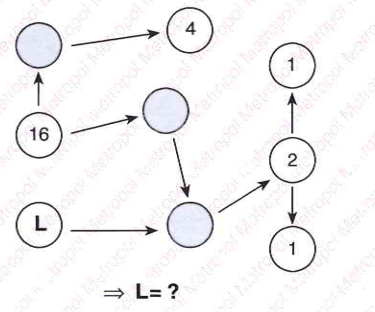
B) △△△

C) ○○○

D) ■△

E) ■○

7.



A) 1

B) 2

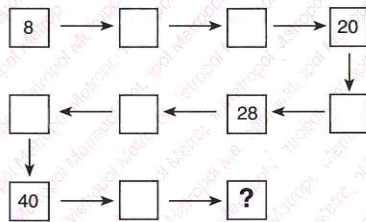
C) 4

D) 8

E) 16

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6.



A) 41

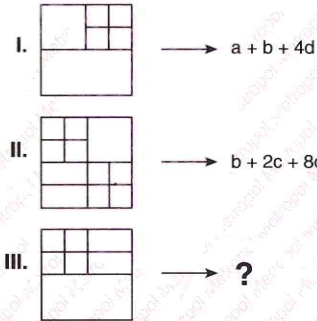
B) 43

C) 47

D) 48

E) 49

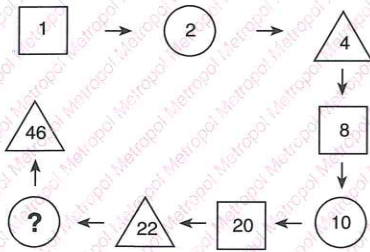
8.

A) $a + 2b + 4c$ B) $a + 2c + 4b$ C) $a + 2c + 4d$ D) $2a + c + 4b$ E) $2a + 4c + d$ 

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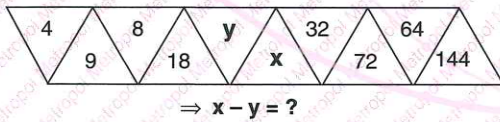
1	B	3	B	5	C	7	D
2	C	4	D	6	D	8	C

1.



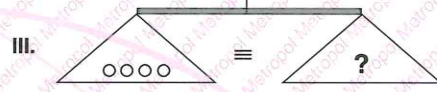
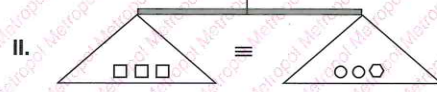
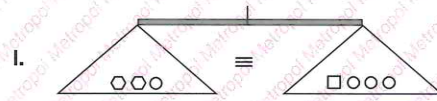
- A) 40
B) 41
C) 42
D) 43
E) 44

2.



- A) 20
B) 21
C) 22
D) 23
E) 24

3.



A) ○□

B) ○○○

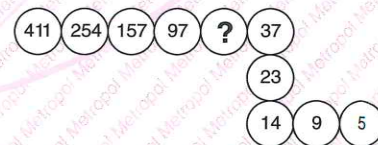
C) □□□

D) ○○○□

E) ○○○□□

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4.



- A) 58
B) 59
C) 60
D) 62
E) 63

5.

I.

7	6
4	2

II.

9	7
6	3

III.

8	6
4	?

- A) 7
B) 8
C) 9
D) 10
E) 11

7.

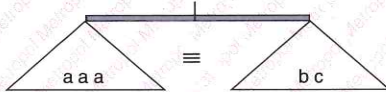
3	5	7	13	11	21	15	29
							19
							37
31	?	27	45	23			

- A) 50
B) 51
C) 52
D) 53
E) 54

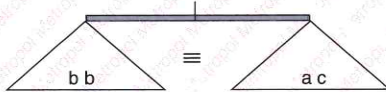
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6.

I.



II.



III.



- A) aaaabb B) aabcc C) 5b
D) bbbcca E) aabbcc

8.

2	6	4	12	10
12	15	21	30	30
			42	28
			57	y
				96

$$\Rightarrow x + y = ?$$

- A) 140
B) 148
C) 150
D) 155
E) 159



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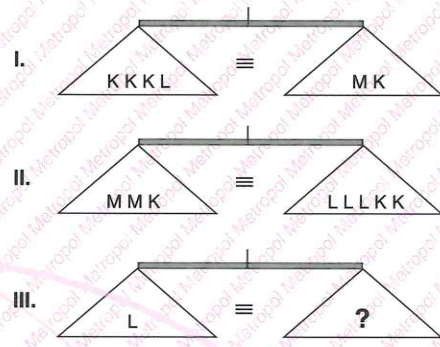
1	E	3	C	5	B	7	D
2	A	4	C	6	E	8	E

1.

7	8	11
?		16
43	32	23

- A) 53
B) 54
C) 55
D) 56
E) 57

3.



- A) K B) M C) MM
D) K K K E) M K K

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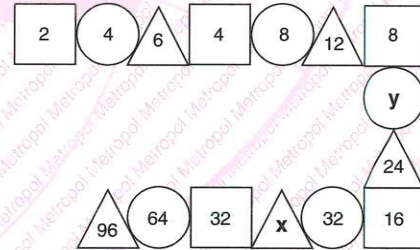
2.

2	4	6	x
6	10	14	
16	24		
40			

 $\Rightarrow x = ?$

- A) 5
B) 7
C) 8
D) 9
E) 10

4.

 $\Rightarrow x - y = ?$

- A) 30
B) 31
C) 32
D) 33
E) 34

5.

2	3	5	9	17	33	x
---	---	---	---	----	----	---

2	5	11	23	47	95	y
---	---	----	----	----	----	---

$$\Rightarrow y - x = ?$$

- A) 120
B) 123
C) 125
D) 126
E) 128

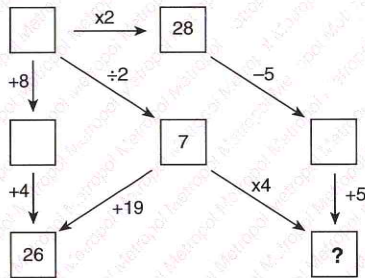
7.

4	5	7	10
8	?	14	20

- A) 7
B) 8
C) 9
D) 10
E) 11

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6.



- A) 28 B) 29 C) 30 D) 31 E) 32

8.

I.

5	3
	6

II.

6	4
	9

III.

7	?
	4

- A) 1
B) 3
C) 5
D) 6
E) 7

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

BÖLÜM 6 CHAPTER

TABLULAR TABLES

Bölüm / Chapter 6

Toplama Tabloları / Addition Tables

Test 1

1.

+	x	y	z
x			12
y			
z			

$$x + y + z = 18$$

$$\Rightarrow y = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

4.

+	a	b	c
a		10	
b			9
c	5		

$$\Rightarrow a + b + c = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

2.

+	x	y	z
x		a	
y			
z		b	

$$\Rightarrow a - b = ?$$

- A) $x + z$ B) $x - z$ C) $y - z$ D) $x - y$ E) $z - y$

5.

+	a-1	b-2	c-3
a	3		
b		4	
c			5

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 13 C) 11 D) 9 E) 7

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3.

+	a	b	c
a		14	
b			8
c			

$$\Rightarrow a + 2b + c = ?$$

- A) 20 B) 21 C) 22 D) 23 E) 24

6.

+	a	b	c
a		10	12
b			14
c			

$$\Rightarrow b = ?$$

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

7.

+	a	b	c
a		12	
b			9
c			

$$a + b + c = 16$$

$$\Rightarrow a + c = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

8.

+	x	y	z
x			
y	21		
z			28

$$\Rightarrow x + y + z = ?$$

- A) 30 B) 35 C) 40 D) 45 E) 50

9.

+	a	b	c
a			15
b	21		
c		10	

$$\Rightarrow a + b + c = ?$$

- A) 25 B) 24 C) 23 D) 22 E) 21

10.

+	a	b	c
a		11	b
b			
c		10	

$$\Rightarrow 2a + 2c + b = ?$$

- A) 13 B) 15 C) 17 D) 19 E) 21

11.

+	a	b	c
a	2c		
b			
c		10	

$$\Rightarrow a + b = ?$$

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

12.

+	a	b	c
a		c	
b	8		
c			

$$\Rightarrow a + b + c = ?$$

- A) 18 B) 16 C) 14 D) 12 E) 10

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

1.

+	a	b	c	d
a		5	L	N
b	M		7	8
c	6	P		9
d	7	K	R	

$$\begin{matrix} KLM \\ - NPR \\ \hline ??? \end{matrix}$$

- A) 86 B) 196 C) 256 D) 316 E) 406

4.

+	a	b	c
a		xy	
b			
c	xz	yz	

$$a + b + c = 18$$

$$\Rightarrow xy + yz + xz = ?$$

- A) 72 B) 36 C) 18 D) 9 E) 3

2.

+	a	b	c
a		$a^2 - b^2$	
b			
c			

$$\Rightarrow a - b = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

5.

+	x	y	z
x			z
y			$x+z-3$
z			

$$\Rightarrow 2x - z = ?$$

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

3.

+	x	y	z
x		-5	
y			-3
z	-4		

$$x, y, z \in \mathbb{Z}^+$$

$$\Rightarrow x + y + z = ?$$

- A) -6 B) -3 C) 0 D) 3 E) 6

6.

+	x	y	z
x		K	
y			M
z	L		

$$x + y + z = 8$$

$$\Rightarrow K + L + M = ?$$

- A) 32 B) 24 C) 16 D) 8 E) 4

7.

+	x	y	z
x		K	
y			L
z	M		

$$\Rightarrow K + L - M = ?$$

A) $2y$

B) y^2

C) y

D) $x^2 - z^2$

E) $x^2 + y^2$

8.

+	a	b	c
a		13	
b			11
c			

$$a + b + c = 18$$

$$\Rightarrow \frac{a+c}{b} = ?$$

A) 5

B) 4

C) 3

D) 2

E) 1

9.

+	a	b	c
a		0	
b			3
c	1		

$$a < 0 < b < c$$

$$\Rightarrow (a + b + c)^{a+b} = ?$$

A) 25

B) 16

C) 9

D) 4

E) 1

10.

+	4	P	12
6		15	
9			
N	15		

$$\Rightarrow N - P = ?$$

A) 0

B) 1

C) 2

D) 3

E) 4

11.

+	a	b	c
a			27
b		18	
c			

$$a + c = 3k$$

$$\Rightarrow k = ?$$

A) a

B) c

C) b

D) $a - c$

E) $3b$

12.

+	a	b	c
a		19	
b			16
c	13		

$$\Rightarrow \frac{a+b+c}{b+c} = ?$$

A) $\frac{1}{2}$

B) 1

C) $\frac{3}{2}$

D) 2

E) $\frac{5}{2}$

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

1.

+	4	5	K
9			
L		x	19
12			y

$$\Rightarrow x + y = ?$$

- A) 32 B) 33 C) 34 D) 35 E) 36

4.

+	a	b	c
a		17	
b			15
c	16		

$$\Rightarrow a + b + c = ?$$

- A) 20 B) 22 C) 24 D) 26 E) 28

2.

+	a	b	c	d
a				f
b			e	
c		g		
d	h			

$$f + g = 12 \Rightarrow e + h = ?$$

- A) 6 B) 8 C) 10 D) 12 E) 14

5.

+	a	b	c
a			7
b	5		
c			

$$\Rightarrow c - b = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

3.

+	a	b	c
a	b		
b			13
c	9		

$$\Rightarrow c = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

6.

+	a	b	c
a		6	
b			8
c	10		

$$\Rightarrow \frac{c+b}{a} = ?$$

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

7.

+	a	b	c
a	b		
b		a^2	15
c			

 $\Rightarrow c = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

8.

+	a	b	c
a		18	
b			22
c	34		

 $\Rightarrow a + b + c = ?$

- A) 35 B) 36 C) 37 D) 38 E) 39

9.

+	a	b	c
a		12	
b			
c	16	18	

 $\Rightarrow c - b = ?$

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

10.

+	a	b	c
a			18
b		36	
c			

 $\Rightarrow a + b + c = ?$

- A) 35 B) 36 C) 37 D) 38 E) 39

11.

+	a	b	c
a			18
b		$8a$	
c			$16a$

 $\Rightarrow a - b + c = ?$

- A) 6 B) 8 C) 10 D) 12 E) 16

12.

+	a	b	c
a			14
b	12		
c		16	

 $\Rightarrow a^2 = ?$

- A) 9 B) 16 C) 25 D) 36 E) 49

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

1.

+	a	b	c
a			20
b	18		
c			16

$$\Rightarrow \frac{a \times b}{c} = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

2.

+	a	b	c
a			3x
b	6x		
c		5x	

$$\Rightarrow \frac{a+b+c}{x} = ?$$

- A) 3 B) 4 C) 6 D) 7 E) 8

3.

+	a	b	c
a		3c+3	
b			8
c	3b+5		

$$\Rightarrow a = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

4.

+	a	b	c
a		18	
b			13
c	35		

$$\Rightarrow a+b+c = ?$$

- A) 30 B) 31 C) 32 D) 33 E) 34

5.

+	a	b	c
a			17
b	3c		
c		3a	

$$\Rightarrow b = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

6.

+	a	b	c
a		10	
b			7
c	9		

$$\Rightarrow (a+b+c)^2 = ?$$

- A) 12 B) 13 C) 14 D) 169 E) 144

7.

+	a	b	c
a		42	
b			34
c	28		

$$\Rightarrow a + 2b - 3c = ?$$

- A) 12 B) 24 C) 36 D) 48 E) 60

8.

+	a	b	c
a			
b	$3c + 3$		$3a + 7$
c			

$$\Rightarrow b - c - a = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

+	a	b	c
a		7	
b			8
c	5		

$$\Rightarrow ab + ac - bc = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

10.

+	K	L	M
K	$3M$		
L		$8K$	
M			

$$\Rightarrow M = ?$$

- A) $L/2$ B) $L/4$ C) $L/6$ D) $L/8$ E) $L/16$

11.

+	a	b	c
a	$6b$	bc	
b			
c			

$$\Rightarrow c = ?$$

- A) 4 B) 3 C) 2 D) 1 E) 0

12.

+	K	L	M
K			$8y$
L	$6z$		
M		$2x$	

$$\Rightarrow x + 4y + 3z = ?$$

- A) $K + 2L + M$ B) $K + L + M$ C) $2K + L - M$
D) $3K + 2L + M$ E) $K + L - M$



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

1.

+	a	b	c
a		KL	
b			KM
c	ML		

$$(K+L)(L+M)=L^2+42$$

$$\Rightarrow a+b+c=?$$

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

4.

+	K+L	L+M	K+M
K		z	
L			y
M	x		

$$K+L+M=23$$

$$\Rightarrow x+y+z=?$$

- A) 92 B) 69 C) 46 D) 36 E) 29

2.

+	a	b	c
a		34	
b			28
c	42		

$$\Rightarrow 2c - (a+b) = ?$$

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

5.

+	a	b	c
a		c+2	
b			16
c	2b-1		

$$\Rightarrow 4b - c = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

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3.

+	a	b	c
K	12		
L			7
M		6	

$$a+b+c=14$$

$$\Rightarrow K+L+M=?$$

- A) 14 B) 13 C) 12 D) 11 E) 10

6.

+	a	b	c
a		2K	2M
b			
c		2L	

$$a+b+c=t$$

$$\Rightarrow K+L+M=?$$

- A) t B) 2t C) t² D) 2t-1 E) t+1

7.

+	x	y	z	p
a		c+p		
b		a+y+m		
c				y+b

$\Rightarrow m = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

8.

+	a	b	c
a			18
b	21		
c		15	

$\Rightarrow \frac{ac}{b} = ?$

- A) 15 B) 12 C) 8 D) 4 E) 2

9.

+	x	y	z
x		6	
z			9-x
z		12	

$\Rightarrow y + xz = ?$

- A) -2 B) -1 C) 0 D) 1 E) 2

10.

+	a	b	c
a		8	
b			11
c	9		
d		14	

$\Rightarrow d = ?$

- A) 3 B) 5 C) 7 D) 9 E) 11

11.

+	K	L	M
K		34	
L			
M		37	

$\Rightarrow M - K = ?$

- A) 4 B) 3 C) 2 D) 1 E) 0

12.

+	7	K	L
8			
M		22	25
17		26	

$\Rightarrow L = ?$

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



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

1.

+	K	L	M
K			
L		3M	
M			K

$$\Rightarrow \frac{K}{L} = ?$$

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{4}$ D) $\frac{4}{3}$ E) $\frac{5}{2}$

2.

+	5	9	15
7		K	
11	L		
17			M

$$\Rightarrow \frac{K+L}{M} = ?$$

- A) $\frac{K}{M}$ B) $\frac{M}{K}$ C) $\frac{M}{L}$ D) $\frac{L}{M}$ E) $\frac{L}{K}$

3.

+	x	y	z
x		2B	
y			2A
z	2C		

$$\begin{aligned} A + B + C &= 35 \\ \Rightarrow \frac{x+y+z}{5} &= ? \end{aligned}$$

- A) 7 B) 5 C) 3 D) 1 E) 0

4.

+	a	b	c
a		13	
b			
c	15		24

$$\Rightarrow b = ?$$

- A) 1 B) 3 C) 7 D) 10 E) 13

5.

+	x	y	z
x		23	
y			12
z	15		

$$\Rightarrow x + y + z = ?$$

- A) 22 B) 23 C) 24 D) 25 E) 26

6.

+	a	b	c
a	12		
b		16	
c			10

$$\Rightarrow bc - a = ?$$

- A) 34 B) 35 C) 36 D) 37 E) 38

7.

+	x	y	z
x			21
y			
z	3z		

$$\Rightarrow x = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

8.

+	K	L	M
K		13	
L			4K
M	11	16	

$$\Rightarrow K \cdot L \cdot M = ?$$

- A) 64 B) 125 C) 162 D) 212 E) 252

9.

+	a	b	c
a			27
b			
c	9b		

$$\Rightarrow \frac{a+c}{b} = ?$$

- A) 3 B) 6 C) 9 D) 12 E) 15

10.

+	a	b	c
a	11		
b		20	
c			17

$$\Rightarrow a + b + c = ?$$

- A) 48 B) 36 C) 24 D) 12 E) 6

11.

+	a	b	c
a		2c	
b			
c			

$$a + b + c = 30$$

$$\Rightarrow c = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

12.

+	a	b	c
a	4c		
b			
c			8b

$$\Rightarrow a = ?$$

- A) b B) 2b C) 4b D) 8b E) 16b



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

1.

+	a	b	c
a		12	
b			14
c	8		
d		15	

$$\Rightarrow d = ?$$

A) 6

B) 5

C) 4

D) 3

E) 2

2.

+	a	b	c	d
a				17
b			17	
c	20			19
d				

$$\Rightarrow b + d = ?$$

A) 18

B) 16

C) 14

D) 12

E) 10

3.

+	a	b	c
a		K	L
b	P		S
c	R	M	

$$K + L + M = X$$

$$\Rightarrow P + R + S = ?$$

A) x

B) 2x

C) 3x

D) x^2 E) $x/2$

4.

+	P	R	S
K	22		
L		15	
M			19

$$K + L + M = 28$$

$$\Rightarrow P + R + S = ?$$

A) 22

B) 24

C) 26

D) 28

E) 30

5.

+	K	L	M
K		P	
L			S
M	R		

$$K + L + M = A$$

$$\Rightarrow P + R + S = ?$$

A) $A/2$

B) A

C) 2A

D) A^2

E) 3A

6.

+	a	b	c
a			
b		$\frac{c}{2}$	
c			16

$$\Rightarrow a = ?$$

A) 1

B) 2

C) 3

D) 4

E) 5

7.

+	a	b	c
a		14	
b			20
c	24		

$$\Rightarrow c = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

8.

+	a	b	c
a	$b+4$		
b		$2c-2$	
c			30

$$\Rightarrow a \cdot b - 2c = ?$$

- A) 94 B) 95 C) 96 D) 97 E) 98

9.

+	a	b	c
a		28	
b			24
c	26		

$$\Rightarrow a + b + c = ?$$

- A) 36 B) 39 C) 42 D) 45 E) 50

10.

+	a	b	c	d
a				17
b				
c		5		
d				

$$\Rightarrow a \cdot c + b \cdot a + c \cdot d + b \cdot d = ?$$

- A) 70 B) 75 C) 80 D) 85 E) 90

11.

+	a	b	c
a		$c+3$	b
b			
c		$a+1$	

$$\Rightarrow \frac{b}{2} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

12.

+	a	b	c
a		c	
b		$2c$	
c		20	

$$\Rightarrow a = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8



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

1.

+	a	b	c
a		35	48
b			53

$$\Rightarrow a = ?$$

- A) 9 B) 15 C) 20 D) 23 E) 37

4.

+	a	b	c
a		13	
b			12
c	11		

$$\Rightarrow a + b + c = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

2.

+	a	b	c	d
a				
b	c+5			
c		d+6		a-7
d				

$$\Rightarrow c - 2d + 5 = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

5.

+	a	b	c
a			20
b	18		
c		24	

$$\Rightarrow b + c - 2a = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

3.

+	a	b	c
a	4c		
b		a ³	
c		x	$\frac{b}{2}$

$$\Rightarrow x = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

6.

+	a	b	c
a		5b	
b			2c
c			

$$\Rightarrow \frac{a}{c} = ?$$

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

7.

+	a	b	c
a		$c+7$	
b			$2a$
c	9		

$$\Rightarrow a + b - c = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

8.

+	a	b	c
a			35
b	30		
c			

$$\Rightarrow c - b = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

+	a	b	c
a		$c+4$	
b			$a+20$
c	$b+10$		

$$\Rightarrow b = ?$$

- A) 4 B) 7 C) 10 D) 12 E) 15

10.

+	a	b	c
a	$4-c$	12	
b			
c			

$$\Rightarrow \frac{2c+b}{2} = ?$$

- A) 4 B) 6 C) 8 D) 10 E) 12

11.

+	a	b	c
a		34	
b			37
c	31		

$$\Rightarrow b = ?$$

- A) 14 B) 17 C) 20 D) 23 E) 26

12.

+	a	b	c
a		30	
b			40
c	32		

$$\Rightarrow a + b + c = ?$$

- A) 50 B) 51 C) 52 D) 53 E) 54



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

1.

+	x	y	z
x			$z+1$
y			
z		$x+3$	

$$\Rightarrow y = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

2.

+	a	b	c
a			
b			a
c	$b+2$		

$$\Rightarrow c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3.

+	a	b	c
a		$a^2 - b^2$	
b	T		
c			

$$\Rightarrow T = ?$$

- A) $a+1$ B) $a+b+1$ C) $2a-1$
D) $2a+b-1$ E) $a-b+1$

4.

+	x	y	z	P
x			14	
y		24		21
z				
P	12			

$$\Rightarrow x + y + z + p = ?$$

- A) 20 B) 25 C) 30 D) 35 E) 40

5.

+	K	L	M	N
x	19			13
y		21		
z			18	

$$x + y + z = 37$$

$$K + L + M + N = 29$$

$$\Rightarrow x = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

+	a	b	c
a			$b+3$
b	$c-1$		
c		$a+5$	

$$\Rightarrow a + b + c = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

7.

+	a	b	c
a		$a^2 - b^2$	
b			
c		$b^2 - c^2$	

$$\Rightarrow a - c = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

8.

+	a	b	c
a		12	
b			16
c	22		

$$\Rightarrow a - b = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

9.

+	a	b	c
a			8
b	10		
c		6	

$$\Rightarrow a + c - b = ?$$

- A) 2 B) 4 C) 6 D) 7 E) 8

10.

+	a	b	c
a		13	
b			26
c			

$$\Rightarrow c - a = ?$$

- A) 13 B) 11 C) 10 D) 9 E) 7

11.

+	a	b	c
a			14
b	13		
c		11	

$$\Rightarrow a = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

12.

+	a	b	c
a			7
b	5		4
c			

$$\Rightarrow \frac{(a+b+c)^2}{8} = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9



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

1.

x	K	L	M
K	16	12	
L			
M	24		

$$\Rightarrow L \cdot M = ?$$

- A) 9 B) 12 C) 15 D) 18 E) 21

4.

x	x	y	z
x		8	
y		4	
z		12	

$$\Rightarrow x = ?$$

- A) y B) $y^2 + z^2$ C) y^2 D) z^2 E) $y^2 - z^2$

2.

x	a	b	c	d
a	k			
b	2	4k		
c			16k	
d				9k

$$\Rightarrow k = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

5.

x	K	L	M
K		Y	
L			18
M	27		81

$$\Rightarrow Y = ?$$

- A) 30 B) 24 C) 18 D) 12 E) 6

3.

x	a	b	c
a	b	27	
b			18
c			

$$\Rightarrow c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

x	a	b	c
a			
b	13		26
c			

$$\Rightarrow a + c = ?$$

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

7.

x	K	L	M
K	64		
L	56		35
M			

$$\Rightarrow K \cdot M = ?$$

- A) 72 B) 49 C) 40 D) 25 E) 15

8.

x	a	b	c
a			
b			2ab
c	32		

$$\Rightarrow c = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

9.

x	K	L	M
K		B	
L			A
M	C		

$$\Rightarrow \frac{ABC}{KLM} = ?$$

- A) K^2M B) KLM C) M^2L^2
D) $K \cdot ML^2$ E) $K \cdot M \cdot 2L$

10.

x	a	b	c
a		K	
b			M
c	L		

$$(a + c)(b + c) = c^2$$

$$\Rightarrow K + L + M = ?$$

- A) 4 B) 3 C) 2 D) 1 E) 0

11.

x	K	L	M
K		35	
L			
M	40		

$$\Rightarrow L + M = ?$$

- A) 11 B) 13 C) 15 D) 17 E) 19

12.

x	a	b	c	d
a		b		
b			c	
c				d
d				

$$\Rightarrow f = ?$$

- A) a^{12} B) a^{14} C) a^{16} D) a^{18} E) a^{20}



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

1. $a, b, c \in \mathbb{Z}^+$

x	a	b	c
a	4		
b		9	
c			16

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 12 B) 24 C) 36 D) 48 E) 96

2.

x	a	b	c
a		8	
b			
c	10		

$$\Rightarrow b + c = ?$$

- A) 3 B) 6 C) 9 D) 12 E) 15

3.

x	a	b	c
a		35	
b			42
c	30		

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

4.

x	a	b	c
a			2
b			
c		8	

$$c > a$$

$$\Rightarrow \frac{b-c}{a} = ?$$

- A) -2 B) -1 C) 0 D) 1 E) 2

5.

x	a	b	c
a			5c
b	4a		
c		2b	

$$\Rightarrow a + b + c = ?$$

- A) 7 B) 9 C) 11 D) 13 E) 15

6.

x	a	b	c
a		56	
b			
c	63		

$$\Rightarrow b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

7.

x	a	b	c
a		b	
b			0
c	8		

$$\Rightarrow a + b + c = ?$$

- A) 4 B) 5 C) 7 D) 8 E) 9

8.

x	a	b	c
a		3b	
b			5c
c	24		

$$\Rightarrow b \times c = ?$$

- A) 28 B) 30 C) 32 D) 36 E) 40

9.

x	a	b	c	d
a		15		35
b			12	
c	20			28
d				

$$\Rightarrow a + b + c + d = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

10.

x	a	b	c
a		15	
b			12
c			

$$\Rightarrow a - c = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

11.

x	a	b	c
a		12	
b			24
c	32		

$$\Rightarrow a - c + b = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

12.

x	a	b	c
a		3c	
b			4a
c	5b		

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 30 B) 40 C) 47 D) 53 E) 60



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

1.

x	a	b	c
a			18
b	36		
c			

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

4.

x	a	b	c
a		8	
b			6
c	12		

$$\Rightarrow a^2 + b^2 + c^2 = ?$$

- A) 14 B) 29 C) 37 D) 42 E) 59

2.

x	a	b	c
a			c^3
b			a^3
c	b^3		

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 24 B) 16 C) 8 D) 2 E) 1

5.

x	a	b	c
a			24
b	18		
c		12	

$$\Rightarrow (a+c)(b+c) = ?$$

- A) 35 B) 47 C) 59 D) 63 E) 70

3.

x	a	b	c
a			
b	$4xy$		$9xy$
c	xz		

$$\Rightarrow \frac{a}{c} = ?$$

- A) 1/3 B) 2/3 C) 3/4 D) 5/6 E) 4/9

6.

x	K	L	M
K			9
L			
M		18	

$$\Rightarrow L = ?$$

- A) M B) 2M C) M - K D) 4K E) 2K

7.

x	a	b	c
a		21	
b			
c	15		

$$\Rightarrow bc = ?$$

- A) 14 B) 28 C) 35 D) 42 E) 49

8.

÷	4	6	8
4			
6	x-z		x+y
8			

$$\Rightarrow \frac{x^2 + 2xy + y^2}{x^2 - 2xz + z^2} = ?$$

- A) 8 B) 6 C) 4 D) 2 E) 1

9.

x	a	b	c
a			
b			
c		18	

$$a \in \mathbb{Z}^+ \\ \Rightarrow \frac{bxc}{a} = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

10.

x	a	b	c
a			28
b	12		
c		21	
d			14

$$\Rightarrow d = ?$$

- A) $a/2$ B) a C) $2a$ D) $3a$ E) $4a$

11.

x	K	L	M
K		16	
L			72
M	18		

$$\Rightarrow K + L + M = ?$$

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

12.

x	a	b	c
a	16		32
b			
c		24	

$$\Rightarrow a + b + c = ?$$

- A) 19 B) 18 C) 17 D) 16 E) 15



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

1.

x	a	b	c
a		42	L
b	K		18
c	21	M	

$$\Rightarrow \sqrt{K+L+M} = ?$$

- A) 9 B) 12 C) 14 D) 16 E) 18

2.

x	a	b	c
a		24	
b	K		
c		K/2	

$$\Rightarrow a/c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3. $L \in \mathbb{Z}^+$

x	K	L	M
K			
L		81	
M	30	54	

$$\Rightarrow K = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

4.

x	K	L	M
K			12
L	8		
M		6	

$$\Rightarrow \sqrt{K+L+M} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

x	K	L	M
K	64		
L			N
M	24		

$$K, L, M, N \in \mathbb{Z}$$

$$\Rightarrow N = ?$$

- A) 5 B) 10 C) 15 D) 20 E) 25

6.

x	a	b	c
a	b		
b		c	
c			256

$$\Rightarrow a \cdot b = ?$$

- A) 4 B) 8 C) 16 D) 64 E) 96

7.

x	a	b	c
a	b^4		
b			$8b$
c		$2c$	

$$\Rightarrow \frac{a+c}{b} = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

8.

x	a	b	c
a		192	
b			64
c	48		

$$\Rightarrow b = ?$$

- A) 12 B) 16 C) 20 D) 24 E) 28

9.

x	a	b	c
a			12
b	28		
c		21	

$$\Rightarrow a + b - c = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

10.

x	a	b	c
a		15	
b			12
c	20		

$$\Rightarrow \frac{a+c}{b} = ?$$

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

11.

x	a	b	c
a		$2c$	
b			27
c	54		

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

12.

x	K	L	M
K		24	
L			32
M	12		

$$\Rightarrow \frac{L+M}{K} = ?$$

- A) K B) L C) M D) $\frac{L}{M}$ E) $\frac{M}{K}$



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

1.

x	a	b	c
a			$64 \cdot b$
b	c		
c		a^4	

$$\Rightarrow a = ?$$

- A) 1 B) 4 C) 8 D) 16 E) 32

4.

x	a	b	c
a			$4b$
b	$16c$		
c			

$$\Rightarrow \frac{b}{c} = ?$$

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

2.

x	a	b	c
a		30	
b			42
c	35		

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 180 B) 190 C) 200 D) 210 E) 220

5.

x	a	b	c
a			b
b			
c		d	

$$\Rightarrow b^2 = ?$$

- A) a^2 B) $a \cdot d$ C) $\frac{d}{a}$ D) $c^2 \cdot d$ E) $\frac{d \cdot c}{a}$

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3.

x	a	b	c
a		42	
b			35
c	30		

$$\Rightarrow c = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

6.

x	a	b	c
a		156	
b			221
c	204		

$$\Rightarrow a + b + c = ?$$

- A) 40 B) 41 C) 42 D) 43 E) 44

7.

x	a	b	c
a		108	
b			168
c	126		

$$\Rightarrow a + b + c = ?$$

- A) 34 B) 35 C) 36 D) 37 E) 38

8.

x	a	b	c
a		8	
b			c
c			

$$\Rightarrow b + c = ?$$

- A) 16 B) 18 C) 20 D) 22 E) 24

9.

x	a	b	c
a			18
b	24		
c		48	

$$\Rightarrow a = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

10.

x	a	b	c
a		35	
b			28
c	20		

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 100 B) 110 C) 120 D) 130 E) 140

11.

x	a	b	c
a			42
b	63		
c		54	

$$\Rightarrow a + b + c = ?$$

- A) 21 B) 22 C) 23 D) 24 E) 25

12.

x	a	b	c
a		3	
b			
c	6	2	

$$\Rightarrow ab + bc + ac = ?$$

- A) 11 B) 10 C) 9 D) 8 E) 7



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

1.

x	a	b	c
a	b		
b		c	
c			256

$$\Rightarrow a = ?$$

- A) 2 B) 4 C) 8 D) 10 E) 12

4.

x	a^2	b^2	c^2
a^2		64	
b^2			
c^2			81

$$a > c > b \neq 1$$

$$\Rightarrow a^2 + b^2 + c^2 = ?$$

- A) 9 B) 19 C) 29 D) 39 E) 49

2.

x	ab	bc	ac
$\frac{1}{a}$	a^2		
$\frac{1}{b}$		b^2	
$\frac{1}{c}$			2

$$\Rightarrow c = ?$$

- A) 24 B) 22 C) 20 D) 18 E) 16

5.

x	a	b	c
a			2
b		4	
c			4

$$c < a < 0 < b$$

$$\Rightarrow a = ?$$

- A) 2 B) 1 C) 0 D) -1 E) -2

3.

x	K	L
M	8	
N	6	3

$$\Rightarrow (K+L) \cdot (N-M) = ?$$

- A) 6 B) 3 C) 0 D) -3 E) -6

6.

x	a	b	c
a			
b			$4a$
c	$8b$		

$$\Rightarrow c = ?$$

- A) $\sqrt{2}$ B) $2\sqrt{2}$ C) $4\sqrt{2}$ D) $8\sqrt{2}$ E) $16\sqrt{2}$

7.

x	K	L	M	N
P		21		42
R	40		16	
S		15		
T			18	

$$\Rightarrow K = ?$$

- A) S B) P C) R D) T E) M

8.

x	a	b	c
a			
b	8c		
c	8b	2a	

$$\Rightarrow a \times b \times c = ?$$

- A) 124 B) 128 C) 132 D) 136 E) 140

9.

x	a	b	c
a		b^2	
b			
c		4	

$$b > c$$

$$\Rightarrow a = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.

x	a	b	c
a			72
b	54		
c		48	

$$\Rightarrow a + b + c = ?$$

- A) 20 B) 21 C) 22 D) 23 E) 24

11.

x	a	b	c
a	4a		
b		5b	
c			6c

$$\Rightarrow a + b - c = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

12.

x	a	b	c
a	64		144
b	120		
c			

$$\Rightarrow c^2 - b^2 = ?$$

- A) 1 B) 45 C) 99 D) 32 E) 256

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

1.

+	a	b	c
a	k		
b			
c			

x	a	b	c
a	k		
b			
c			

$$a \neq 0 \Rightarrow k = ?$$

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

4.

+	K	L	M
K			
L	7		
M			

x	K	L	M
K			
L			20
M	15		

$$\Rightarrow M = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

2.

+	a	b	c
a		7	
b			5
c			

x	a	b	c
a			8
b			
c			

$$\Rightarrow a + b + c = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

5.

+	4	5	6
K	a		
L			
M			

+	K	L	M
a	8		
b			
c			

$$\Rightarrow K = ?$$

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

3.

+	a	b	c
a			
b			5
c			

x	a	b	c
a		16	24
b			
c			

$$\Rightarrow b = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

+	a	b	c	d
x	6	7	8	9
y	7	8	9	10
z	8	9	10	11

+	x	y	z
a	L	N	
b		K	
c	K		
d	M		

$$\Rightarrow (L + M) - (K + N) = ?$$

- A) 12 B) 8 C) 4 D) 2 E) 0

7.

+	a	b
a		19
b		24

+	x	y	z
a	11	2z	
b			17
c		30	

 $\Rightarrow c = ?$

- A) 30 B) 27 C) 24 D) 21 E) 18

8.

+	a	b	c
a			8
b	3		
c			

x	a	b	c
a			7
b	2		
c			

 $\Rightarrow a \times b \times c = ?$

- A) 13 B) 14 C) 15 D) 16 E) 17

9.

+	a	b	c
a	2d		
b		4e	
c			6f

x	a	b	c
a	d		
b		e	
c			f

 $\Rightarrow 6(a + b + c) = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

10.

x	a	b	c
a	25	35	40
b	35	49	56
c	40	56	64

+	a	b	c
a	d		
b		e	
c			f

 $\Rightarrow d + e + f = ?$

- A) 36 B) 38 C) 40 D) 42 E) 44

11.

+	a	b	c
a			
b			4b
c			

+	a	b	c
a			36
b	c		
c			

 $\Rightarrow a + b + c = ?$

- A) 16 B) 17 C) 18 D) 19 E) 20

12.

x	a	b	c
a		b^3	
b			b^4
c			

+	a	b	c
a		12	
b			30
c			

 $\Rightarrow \frac{a+c}{b} = ?$

- A) 9 B) 10 C) 11 D) 12 E) 15



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

1.

+	a	b	c
a			15
b			
c			

x	a	b	c
a		35	
b			40
c			

$$\Rightarrow a + b + c = ?$$

- A) 18 B) 19 C) 20 D) 22 E) 24

2.

+	a	b	c
a		5	3
b			
c		4	

x	a	b	c
a		$x+y$	
b			$y+z$
c	$x+z$		

$$\Rightarrow x + y + z = ?$$

- A) 5/2 B) 7/2 C) 9/2 D) 11/2 E) 13/2

3.

+	M	N	P
M		P	
N			
P			

x	M	N	P
M			
N			
P			$M+N$

$$\Rightarrow P = ?$$

- A) 8 B) 4 C) 2 D) 1 E) -1

4.

x	K	L
K		M
L		

x	M	N
M		
N	KL	

$$\Rightarrow N = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

+	A	B
A		64
B	8K	

+	A	B	C
A			
B	20		
C	2K	28	

$$\Rightarrow A + B + C = ?$$

- A) K B) 2K C) 4K D) 8K E) 16K

6.

+	a	b	c	d
a				L
b				
c		K		
d				

x	K	L
K		128
L		

$$\Rightarrow ab + cd + ac + bd = ?$$

- A) 32 B) 64 C) 128 D) 256 E) 512

7.

x	K	L	M
K	A		
L			
M			B

+	K	L	M
K			16
L			
M			

$$A - B = 96 \Rightarrow K - M = ?$$

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

8.

x	K	L	M
K		A	
L			B
M	C		

x	A	B
A		C
B		

$$\Rightarrow B = ?$$

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

9.

+	a	b	c
a			
b		220	
c			

x	a	b	c
a	a+b		
b			
c			

$$\Rightarrow a = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

10.

+	a	b
a		
b		a

x	a	b
a	b ⁴	
b		$\frac{c}{4}$

$$\Rightarrow c = ?$$

- A) 12 B) 16 C) 20 D) 24 E) 28

11.

+	a	b	c
a			10
b		a	
c			

x	a	b	c
a			24
b			
c			

$$a > c \Rightarrow b = ?$$

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

12.

+	a	b	c
a		15	
b			11
c	10		

x	a	b	c
a		x	
b			z
c	y		

$$\Rightarrow x + y - z = ?$$

- A) 49 B) 50 C) 51 D) 52 E) 53



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

1.

x	a	b	c
a		40	
b			
c	56		

+	a	b	c
a			
b			12
c			

$\Rightarrow a = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

4.

+	a	b	c
a			7
b			9

x	a	b	c
a			
b	15		

$\Rightarrow a \cdot b \cdot c = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

2.

+	a	b	c
a			
b	d^2		
c			

x	a	b	c
a			
b			42
c	54		

$\Rightarrow d = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

5.

+	a	b
a		c
b		

x	a	b	c
a			
b			42

$\Rightarrow \frac{a \cdot b}{c} = ?$

- A) 3 B)
- $\frac{7}{6}$
- C)
- $\frac{27}{14}$
- D)
- $\frac{33}{14}$
- E) 7

3.

+	a	b	c
a			11
b	7		

x	a	b	c
a			28
b			

$b > 0 \Rightarrow a + b + c = ?$

- A) 11 B) 12 C) 13 D) 14 E) 15

6.

+	a	b	c
a		12	
b			
c		9	

x	a	b	c
a			
b	32		20
c			

$\Rightarrow a + b + c = ?$

- A) 15 B) 16 C) 17 D) 18 E) 19

7.

+	a	b	c
a		a^2	20
b	c		

x	a	b	c
a	c		
b			

$$\Rightarrow c + b = ?$$

- A) 26 B) 28 C) 30 D) 32 E) 34

8.

+	a	b	c	d
a		x		z
b	K			
c				y
d	M		L	

+	x	y	z
x	10	14	12
y			
z			

$$\Rightarrow K + L + M = ?$$

- A) 21 B) 19 C) 17 D) 15 E) 13

9.

+	x	y	z
x		5	
y			
z	7	6	

x	x	y	z
x		6	
y			
z			

$$\Rightarrow x^2 + y^2 = ?$$

- A) 15 B) 14 C) 13 D) 12 E) 11

10.

+	a	b
a		$3\sqrt{2}$
b		

x	a	b
a		4
b		

$$a - b = \sqrt{2} \Rightarrow a^3 + b^3 = ?$$

- A) $18\sqrt{2}$ B) $9\sqrt{2}$ C) $3\sqrt{2}$
D) $\sqrt{2}$ E) $5\sqrt{2}$

11.

x	x	y	z
x			a+b
y	b+c		
z		a+c	

+	a	b	c
a		K	M
b			
c		L	

$$\Rightarrow \frac{K \cdot M}{L} = ?$$

- A) x^2 B) y^2 C) z^2
D) $x^2 + y^2 + z^2$ E) $x^2 + y^2 - z^2$

12.

+	a	b	c
a		2K	
b			L
c			

x	a	b
K	a+b	
L	16	

$$\Rightarrow a + b + c = ?$$

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



YANITLAR / ANSWERS

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

1.

$\square$	a	b	c
K	9	10	22
L	31	18	7
M	41	12	5

$$\Rightarrow (a \square L) + (b \square M) - (K \square c) = ?$$

- A) 19 B) 20 C) 21 D) 22 E) 23

2.

$\star$	A	B	C
x	3	8	7
y	5	9	4
z	6	1	2

$$\Rightarrow (x \star A) + (y \star c) + (z \star c) = ?$$

- A) 7 B) 9 C) 11 D) 13 E) 15

3.

$*$		
	22	
		14

$$\Rightarrow (\text{hexagon} * \text{square}) + (\text{hexagon} * \text{pentagon}) = ?$$

- A) 22 B) 32 C) 42 D) 52 E) 62

4.

$\bullet$	4	6	8
14	20		
11		?	6
8	8		

- A) 5 B) 8 C) 10 D) 12 E) 15

5.

$\bullet$	12	9	5
8	40		
11		40	
14	?	46	

- A) 52 B) 53 C) 54 D) 55 E) 56

6.

	7	12	13
5	?		18
3		—	
1	8	—	14

- A) — B) 12 C) 13 D) 14 E) 15

7.

☛	2	5	9
13	□	•	L
11	K	•	•
7	□	•	M

 $\Rightarrow K, L, M = ?$

- A) •, •, □ B) □, •, • C) □, □, •
D) •, □, □ E) □, •, □

8.

▲	4	6	3
8			
5		61	
2			

 $\Rightarrow a \blacktriangle b = ?$

- A) $(a + b)^2$ B) $a^2 - b^2$ C) $\sqrt{a + b}$
D) $a^2 + b^2$ E) $a^3 - b^3$

9.

+	12	9	3
18	36		
15		36	
7	?	4	16

- A) 9 B) 15 C) 18 D) 25 E) 42

10.

□	7	12	18
21			39
13	—	25	?
5	—	17	

- A) 29 B) 30 C) 31 D) 32 E) —

11.

•	3	5	9
2	3		21
7		6	
8	15	?	

- A) 3 B) 6 C) 9 D) 12 E) 15

12.

*	11	5	3
7		2	
13	?		6
20	3	10	

- A) 5 B) 6 C) 7 D) 8 E) 9



YANITLAR / ANSWERS

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

1.

*	32	43	57
2	7		
4		11	7
5	10		?

A) 6

B) 8

C) 10

D) 12

E) 14

2.

*	5	9	13
8	—	A	—
6	B	—	—
3	4	6	C

⇒ C, B, A = ?

A) 16, —, —

B) —, 8, —

C) 8, —, —

D) —, —, 16

E) —, —, 8

3.

●	13	17	24
8	—		?
6		—	9
3	5	7	

A) 6

B) 7

C) 8

D) 9

E) —

4.

●	33	28	19
15		26	
24	18		
35	?		32

A) 4

B) 12

C) 25

D) 36

E) 49

5.

?	12	5	2
4	?	—	3
7		6	
14	13		8

A) —

B) 5

C) 6

D) 7

E) 8

6.

♥	15	9	4
28		46	
45	75		
63	?		71

A) 42

B) 58

C) 64

D) 85

E) 93

7.

□	7	5	2
12	2		
10	4	?	
5		5	—

- A) 0 B) 1 C) 2 D) 3 E) 4

8.

▲	7	12	15
8		0	
4	1		
2	9	?	7

- A) 3 B) 4 C) 5 D) 6 E) 7

9.

*	24	19	11
2	20		
7	?	5	—
13	—	—	

- A) 8 B) 9 C) 10 D) 11 E) 12

10.

♦	5	12	13
7	19		
3		18	19
1	7		?

- A) 15 B) 16 C) 17 D) 18 E) 19

11.

☼	12	21	34
5	13	4	
7			15
9	69		?

- A) 23 B) 38 C) 47 D) 59 E) 61

12.

●	4	8	11
3	—	K	*
7	M	—	*
10	*	*	L

⇒ K, L, M = ?

- A) —, —, * B) *, —, — C) —, —, —
D) *, *, * E) *, —, *



YANITLAR / ANSWERS

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

1.

$\triangle$	4	7
5	9	
8		15

$\square$	2	5
3		
6	4	1

$$\Rightarrow (8 \square 7) \triangle (6 \triangle 5) \square (8 \triangle 4) = ?$$

- A) 4 B) 3 C) 2 D) 1 E) 0

4.

$\bullet$	12	34	51
88	19		
64		17	16
42		X	12

$$\Rightarrow X = ?$$

- A) 9 B) 11 C) 13 D) 15 E) 17

2.

$\blacktriangle$	3	6	8
13	18		
17		25	?
16	21		26

- A) 27 B) 26 C) 25 D) 24 E) 23

5.

$\bullet$	4	5
3	1	
2	2	

$\blacktriangle$	1	6
7		13
8	9	

$$\Rightarrow (5 \bullet 3) \blacktriangle [(8 \blacktriangle 6) \bullet (7 \blacktriangle 1)] = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

3.

$\blacktriangle$	3	7	9
6	-	13	
4			
1	8		K

$$\Rightarrow K = ?$$

- A) 8 B) 10 C) 40 D) 68 E) 80

6.

$\bullet$	3	4
2	13	L
5	K	41

$$\Rightarrow K - L = ?$$

- A) 20 B) 16 C) 14 D) 12 E) 6

7.

●	2	3	4
2	x		
3			49
4	36		y

$$\Rightarrow y - x = ?$$

- A) 12 B) 24 C) 36 D) 48 E) 64

8.

▲	1	2	3
1	2	K	28
2		L	
3		35	M

$$\Rightarrow K + L + M = ?$$

- A) 59 B) 69 C) 79 D) 89 E) 99

9.

●	3	4
3		25
4		

■	2	5
2		21
5		

$$\Rightarrow (5 \bullet 2) - (4 \blacksquare 3) = ?$$

- A) 14 B) 16 C) 18 D) 20 E) 22

10.

♣	21	34	42
25		A	
29		25	
38			16

$$\Rightarrow A = ?$$

- A) 81 B) 64 C) 49 D) 36 E) 25

11.

□	4	K	8
L	8		
6		21	24
9	18		

$$\Rightarrow K \square L = ?$$

- A) 16 B) 14 C) 12 D) 10 E) 8

12.

◆	13	47	81
67	40		74
78		—	—
91	P		

$$\Rightarrow P = ?$$

- A) 51 B) 52 C) 53 D) 54 E) —



YANITLAR / ANSWERS

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

1.

Δ	2	3
6	6	9
8	8	

$\square$	1	5
7	14	70
9	18	

$$\Rightarrow \frac{(6\square 2)}{(8\Delta 3)} = ?$$

A) 2

B) 3

C) 4

D) 5

E) 6

4.

$\bullet$	5	7	9
11	A	2	C
13	4	B	2

$$\Rightarrow A, B, C = ?$$

A) 3, 3, 1

B) 3, 1, 3

C) 1, 3, 3

D) 1, 3, 1

E) 3, 3, 3

2.

$\star$	12	21	30
13	1	—	M
29	L	8	—
41	29		K

$$\Rightarrow K, L, M = ?$$

A) —, 17, 11

B) —, 11, 17

C) 17, —, 11

D) 11, 17, —

E) 17, 11, —

5.

$\square$	3	7	K	13
4	1			81
5		4	9	64

$$\Rightarrow K = ?$$

A) 5

B) 6

C) 7

D) 8

E) 9

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3.

$\bullet$	21	14	7
9	12		K
18		14	
27	12		16

$$\Rightarrow K = ?$$

A) 9 $\bullet$ 14B) 18 $\bullet$ 21C) 27 $\bullet$ 14D) 18 $\bullet$ 7E) 14 $\bullet$ 18

6.

$\blacksquare$	3	4	5	6
4			11	14
5		K		
6			19	
7	11	M		L

$$\Rightarrow K + L + M = ?$$

A) 37

B) 47

C) 57

D) 67

E) 77

7.

■	24	32	43
11	8	R	
28			17
43	13	12	P

$$\Rightarrow P - R = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

8.

■	4	6	8
3	10		
5			18
7		20	x

$$\Rightarrow x = ?$$

- A) 16 B) 18 C) 20 D) 22 E) 24

9.

◆	71	63	42
7	8	—	—
14	—	K	—
26	—	—	4

$$\Rightarrow K = ?$$

- A) — B) 4 C) 5 D) 6 E) 7

10.

●	5	6	7
8	y		225
7	144	x	196
6			169

$$\Rightarrow \sqrt{x \cdot y} = ?$$

- A) 169 B) 144 C) 96 D) 25 E) 13

11.

▲	21	38	41
23			10
67	16		18
81	X	20	

$$\Rightarrow X = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

12.

■	1	2	3	4
5		23		L
6	35		M	
7		K	46	

$$\Rightarrow K, L, M = ?$$

- A) 47, 33, 21 B) 33, 47, 21 C) 21, 33, 47
D) 47, 21, 33 E) 21, 47, 33



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

1.

●	4	5
6		61
7		

■	9	8
7		
6		28

$$\Rightarrow (7 \bullet 4) - (9 \blacksquare 7) = ?$$

A) 13

B) 23

C) 33

D) 43

E) 53

2.

◆	17	21	81
48	41		B
56	A		48
73		71	

$$\Rightarrow \sqrt{A - B} = ?$$

A) 1

B) 2

C) 3

D) 4

E) 5

3.

	3	4	8	11
4			$2\sqrt{3}$	
5		K	—	4
8	—		4	

$$\Rightarrow K = ?$$

A) —

B) 2

C) 3

D) 4

E) 5

4.

●	8	B	12
A		144	225
4	144		
8			400

$$\Rightarrow B = ?$$

A) 3

B) 6

C) 9

D) 12

E) 15

5.

■	8	9	10
2			40
3		54	
4	64		X

$$\Rightarrow X = ?$$

A) 56

B) 64

C) 72

D) 80

E) 88

6.

☆	4	6	7
5	18		
8		28	?

A) 24

B) 26

C) 28

D) 30

E) 32

7.

●	8	12	20
4	16	L	
7		26	M
10	K		40

$$\Rightarrow K + L + M = ?$$

- A) 72 B) 74 C) 78 D) 80 E) 82

8.

●	6	8	12
7	8	A	
8	B	8	
10		12	C

$$\Rightarrow A + C - B = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

*	3	5	7
8	1	17	?
14	—	11	35
21	—	4	28

- A) 21 B) 31 C) 41 D) 51 E) 61

10.

●	4	K	12
5		6	14
8	8		
L		8	

$$L < 5 < K$$

$$\Rightarrow K + L = ?$$

- A) 12 B) 18 C) 20 D) 22 E) 24

11.

●	4	7	9
11	5	?	0
14	8	2	6
17	2	8	12

- A) 8 B) 7 C) 6 D) 5 E) 4

12.

●	2	4	5
3	125		
4	216		729
6		?	

- A) 10 B) 100 C) 110 D) 1000 E) 1100



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

1.

★	5	8	9
3	4	?	
4	1	16	
7			4

- A) 10 B) 15 C) 20 D) 25 E) 30

4.

●	5	7
11	—	6
14	—	7
17	K	L
19	8	—

 $\Rightarrow K, L = ?$

- A) 8, — B) —, 8 C) —, —
D) 8, 8 E) 8, 9

2.

■	12	15	19
5		20	
7	?		24
8		14	

- A) 5 B) 10 C) 15 D) 20 E) 25

5.

●	5	12	17
3	1	—	7
7	1	—	?
11	3	—	3

- A) 4 B) 5 C) 6 D) 7 E) 8

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3.

●	5	7	11
8	4		
9		?	
12	8	10	5

- A) 7 B) 6 C) 5 D) 4 E) 3

6.

☆	3	4	5
2	15	18	K
8	33	L	39
3	M	21	24

 $\Rightarrow K + M - L = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

7.

▲	3	8	6
7	16	1	1
8	25	0	K
9	36	1	L

$$\Rightarrow K + L = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

8.

○	a	b	c
a	11	8	5
b	8	9	6
c	5	6	7

$$\Rightarrow \frac{(a \odot b) \times (b \odot c)}{(b \odot c)} = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

9.

▲	x	y	z
a	3	8	11
b	23	22	5
c	6	8	10

$$\Rightarrow (x \blacktriangle a) \times (a \blacktriangle y) + (b \blacktriangle z) = ?$$

- A) 27 B) 28 C) 29 D) 30 E) 32

10.

	12	18	24
2	6	18	K
3	L	27	18
4	12	M	24

$$\Rightarrow K + L + M = ?$$

- A) 55 B) 56 C) 57 D) 58 E) 59

11.

▲	2	4	8
3		x	48
6	24		y
9	z		144

$$\Rightarrow \sqrt{\frac{x \cdot y}{z}} = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

12.

●	3	6	5
4	K	10	1
8	5	L	3
7	21	1	M

$$\Rightarrow K + L + M = ?$$

- A) 50 B) 51 C) 52 D) 53 E) 54



YANITLAR / ANSWERS

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

1.

□	3	8	7
4	L	144	121
5	M	169	144
2	25	100	K

$$\Rightarrow K + L + M = ?$$

- A) 190 B) 191 C) 192 D) 193 E) 194

4.

●	8	9	12
21	18	0	9
33	4	8	20
43	5	A	25

$$\Rightarrow A = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

2.

●	16	21	28
3	1	2	1
4	2	1	2
2	2	1	2
5	1	K	L

$$\Rightarrow 3K + 2L = ?$$

- A) 6 B) 7 C) 8 D) 10 E) 11

5.

■	4	5	6
2	L	11	
3		K	15
7	25		M

$$\Rightarrow K + L + M = ?$$

- A) 41 B) 51 C) 61 D) 71 E) 81

3.

*	2	3	4
1	9	12	K
2	12	L	18
3	M	18	21

$$\Rightarrow \frac{K+L+M}{15} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

	6	9	14
21		11	
38	P		38
56		39	

$$\Rightarrow P = ?$$

- A) 10 B) 20 C) 30 D) 40 E) 50

7.

■	3	5	8	14
6		15	24	M
8	L			56
12	18		48	
17	—	K		

 $\Rightarrow K, L, M = ?$

- A) —, 24, 42 B) 24, —, 42 C) —, 12, 21
D) —, 12, 42 E) 42, 12, —

8.

●	24	43	82
5	1		
7		6	
9			-1

 $\Rightarrow a \bullet b = ?$

- A) $a^2 - b^2$ B) $a^2 + b^2$ C) $a^2 - 2b$
D) $a^2 - b$ E) $a - b^2$

9.

▲	3	K	7
6	9		21
4			14
12	18	24	

 $\Rightarrow K = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

10.

▲	2	3	4
5	A	14	
6		B	
7	11	C	23

 $\Rightarrow A + B + C = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

11.

●	12	13	14
6	6		K
7	L	5	
8		M	4

 $\Rightarrow K + L + M = ?$

- A) 10 B) 12 C) 13 D) 14 E) 15

12.

●	4	1	8
11	30	K	38
6	L	14	28
3	14	8	M

 $\Rightarrow K + L + M = ?$

- A) 66 B) 70 C) 74 D) 76 E) 78



YANITLAR / ANSWERS

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

1.

*	Δ	□	◇
3	9		A
7	C		35
9	B	36	

$$\Rightarrow A + B + C = ?$$

- A) 53 B) 56 C) 60 D) 63 E) 69

4.

A	□	△	◇	◇
□	—		—	
▽	L	9	K	M
◇		15		25

$$\Rightarrow M, L, K = ?$$

- A) 18, 12, — B) —, 12, — C) —, —, 18
D) 15, —, — E) 15, 12, 18

2.

●	□	▲	◇
▲	K		15
◇			L
□	M	12	

$$\Rightarrow K + L + M = ?$$

- A) 33 B) 43 C) 53 D) 63 E) 73

5.

☞	3	5	6	7	9	12
2	○	□	△	◇	◇	□
4	◇	△	□	□	◇	○
5	□	◇	△	○	□	◇
3	□	○	◇	△	◇	□

$$\Rightarrow (5 \text{ ☞ } 9) = ?$$

- A) 3 ☞ 12 B) 5 ☞ 5 C) 2 ☞ 3
D) 3 ☞ 9 E) 4 ☞ 7

3.

⊗	□	○	▲
5	9	25	x
6	y	36	18
7	11	z	21

$$\Rightarrow z - (x + y) = ?$$

- A) 15 B) 17 C) 19 D) 21 E) 24

6.

★	3	4	5
6	X	2 · ◇	
7	2 · ◇	Z	2 · ◇
8	—		Y

$$\Rightarrow X, Y, Z = ?$$

- A) —, 2Δ, — B) 2□, —, — C) —, —, —
D) ◇, —, — E) —, —, ◇

7.

		□	△	◇
○	A	27	125	
◇	B	18	30	

$$\Rightarrow A - B = ?$$

- A) 20 B) 30 C) 40 D) 50 E) 60

8.

	○	□	△
□	10		
△		14	12
○	K		8

$$\Rightarrow K = ?$$

- A) 4 B) 8 C) 16 D) 32 E) 64

9.

	◇	◇	□
△	M	15	12
□	24	L	16
○	6	5	K

$$\Rightarrow K + L + M = ?$$

- A) 34 B) 36 C) 38 D) 40 E) 42

10.

	5	8	11
□	20	32	K
△	L	5	8
◇	10	M	16

$$\Rightarrow K = ?$$

$$\Rightarrow L = ?$$

$$\Rightarrow M = ?$$

- A) 13, 2, 44 B) 44, 2, 13 C) 13, 44, 2
D) 2, 13, 44 E) 2, 44, 13

11.

	△	◇	□
▽	-	-	K
◇	M	30	24
◇	L	-	20

$$\Rightarrow K, L, M = ?$$

- A) 12, 15, 18 B) 12, -, 18 C) -, 15, -
D) 12, -, - E) -, -, -

12.

	△	□	◇
2	6	8	A
3	B	12	15
5	15	C	25

$$\Rightarrow A + B + C = ?$$

- A) 35 B) 39 C) 43 D) 47 E) 51



YANITLAR / ANSWERS

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

1.

	⊕	▲	●
3	6	9	9
7	A	49	C
9	18	B	27

$$\Rightarrow A + B + C = ?$$

- A) 49 B) 68 C) 82 D) 96 E) 116

4.

	A	B	C
8	23	L	8
14	41	29	M
23	K	47	23

$$\Rightarrow K - L - M = ?$$

- A) 33 B) 34 C) 35 D) 36 E) 37

2.

	★	◆	⊗
7	14	—	L
8	K	4	—
9	18	—	3

$$\Rightarrow K, L = ?$$

- A) 16, — B) —, 16 C) —, —
D) 16, 4 E) 4, 16

5.

	3	4	7
A	9	K	49
B	9	L	21
C	7	9	M

$$\Rightarrow K - M + L = ?$$

- A) 5 B) 10 C) 12 D) 13 E) 15

3.

	4	5	6
x	a	125	216
y	20	25	b
z	8	c	12

$$\Rightarrow a + b + c = ?$$

- A) 100 B) 101 C) 102 D) 103 E) 104

6.

	★	●	▲
15	6	4	z
23	5	y	6
18	x	7	8

$$\Rightarrow x + y + z = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

7.

	■	▲	●
6	7	9	c
7	8	b	13
8	a	11	15

$$\Rightarrow \frac{a+c}{b} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

8.

○	K	L	M
a	18	12	23
b	16	14	9
c	28	16	32

$$\Rightarrow \frac{(a \circ K) \times (a \circ L)}{(b \circ M)} = ?$$

- A) 18 B) 22 C) 24 D) 26 E) 28

9.

■	5	7	12
4		15	
2	9		16
1	?		14

- A) 3 B) 4 C) 5 D) 6 E) 7

10.

—	7	9	13
x	14		C
y	B	27	
z	49		A

$$\Rightarrow A - (B + C) = ?$$

- A) 24 B) 42 C) 63 D) 94 E) 122

11.

	△	□	○
7		49	C
14	28	A	
21	B		63

$$\Rightarrow A - (B + C) = ?$$

- A) 38 B) 54 C) 72 D) 93 E) 133

12.

	K	L
3	9	
5		B
9	A	729

$$\Rightarrow B - A = ?$$

- A) 18 B) 22 C) 34 D) 44 E) 58



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

1.

2	3	4	2
4	2	4	3
1	2	3	1
8	4	8	4
Sonuç (Result)	6	8	? 9

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

2.

7	9	4	4
3	8	4	3
14	4	7	5
24	3	33	12
15	11	9	? 1

- A) 9 B) 7 C) 5 D) 3 E) 1

3.

4	12	3	6
3	4	9	12
4	8	9	36
Sonuç (Result)	3	6	3 ?

- A) 1 B) 2 C) 3 D) 4 E) 5

4.

12	9	4	Sonuç (Result)
2	3	4	5
9	13	14	3
18	23	8	6
			? 7

- A) 1 B) 3 C) 5 D) 7 E) 9

5.

2	1	6	Sonuç (Result)
5	1	2	6
3	4	3	? 7
1	2	5	5
7	2	9	9

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

6.

3	?	2	Sonuç (Result)
5	1	1	25
3	1	4	49
3	4	2	64
			81

- A) 4 B) 3 C) 2 D) 1 E) 0

7.

Sonuç (Result)			
5	7	10	8
4	8	6	2
x	12	15	9
3	1	3	5

$$\Rightarrow X^2 = ?$$

- A) 9 B) 16 C) 25 D) 36 E) 49

8.

Sonuç (Result)			
2	1	6	6
0	6	4	4
1	2	5	x
7	2	9	y

$$\Rightarrow (y - x)^2 = ?$$

- A) 9 B) 16 C) 25 D) 36 E) 49

9.

4	7	8	x
5	3	4	7
3	6	4	2
2	2	4	7
14	9	16	14

$$\Rightarrow x = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

10.

Sonuç (Result)			
5	7	9	M
8	3	4	15
6	K	7	17
1	7	L	10

$$\Rightarrow K + L + M = ?$$

- A) 27 B) 30 C) 33 D) 36 E) 39

11.

Sonuç (Result)				
3	6	2	4	12
4	8	3	6	12
5	1	2	7	24
3	2	1	6	16
6	4	5	9	K

$$\Rightarrow K = ?$$

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

12.

Sonuç (Result)			
1	3	2	6
4	2	3	L
5	1	2	10
10	K	7	

$$\Rightarrow \frac{L}{K} = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4



YANITLAR / ANSWERS

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

1.

Sonuç (Result)		
5	7	35
6	2	12
8	4	K
9	3	27
Sonuç (Result)	L	16

$$\Rightarrow K + L = ?$$

- A) 40 B) 50 C) 60 D) 70 E) 80

4.

Sonuç (Result)			
3	2	7	144
4	6	3	169
8	4	3	225
7	5	2	x

$$\Rightarrow x = ?$$

- A) 166 B) 176 C) 186 D) 196 E) 206

2.

Sonuç (Result)			
4	7	12	4
5	8	11	8
7	9	2	K
Sonuç (Result)	4	L	12

$$\Rightarrow K + L = ?$$

- A) 3 B) 5 C) 7 D) 9 E) 11

5.

Sonuç (Result)		
4	5	6
2	4	3
?	61	189

- A) 36 B) 46 C) 56 D) 66 E) 76

3.

Sonuç (Result)			
3	2	1	11
2	1	9	2
6	3	3	?

- A) 30 B) 40 C) 50 D) 60 E) 70

6.

Sonuç (Result)			
3	2	6	6
5	1	5	5
8	2	4	8
9	3	3	?

- A) 9 B) 8 C) 7 D) 6 E) 5

7.

	5	7	9
	6	3	7
Sonuç (Result)	61	58	x

- A) 110 B) 120 C) 130 D) 140 E) 150

8.

	4	5	7	6
	3	8	3	4
	6	16	6	9
Sonuç (Result)	6	24	15	L

 $\Rightarrow L = ?$

- A) 14 B) 15 C) 16 D) 17 E) 18

9.

	2	1	3	4	Sonuç (Result)
	5	6	7	1	24
	2	4	5	6	K
	1	4	3	7	16
	8	9	2	1	28

 $\Rightarrow K = ?$

- A) 16 B) 17 C) 18 D) 19 E) 20

10.

	2	3	6	2	Sonuç (Result)
	5	4	1	2	22
	7	2	3	1	M
	4	3	6	2	24

 $\Rightarrow M = ?$

- A) 15 B) 17 C) 19 D) 21 E) 23

11.

	9	8	6	5
	1	2	3	4
	4	5	6	7
Sonuç (Result)	6	5	3	L

 $\Rightarrow L = ?$

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

12.

	3	4	5	Sonuç (Result)
	6	8	1	30
	7	2	6	30
	4	9	5	K

 $\Rightarrow K = ?$

- A) 34 B) 36 C) 38 D) 40 E) 42



YANITLAR / ANSWERS

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

1.

10	8	6	14
2	4	12	6
8	18	4	2
10	L	11	11

Sonuç
(Result)

- A) 9 B) 11 C) 13 D) 15 E) 17

4.

14	6	8	16
9	7	12	14
5	1	10	K
6	4	8	10

Sonuç
(Result) $\Rightarrow K = ?$

- A) 13 B) 14 C) 15 D) 16 E) 17

2.

9	5	12	3
6	7	9	6
8	14	5	13
22	25	M	21

Sonuç
(Result)

- A) 22 B) 23 C) 24 D) 25 E) 26

5.

16	18	24	10
6	9	3	12
8	14	5	17
11	14	19	L

Sonuç
(Result) $\Rightarrow L = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

3.

2	1	3	4	2	8
6	9	3	5	1	22
7	1	8	2	6	12
9	3	6	5	5	L

Sonuç
(Result) $\Rightarrow L = ?$

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

6.

4	8	3	6	14
5	6	7	4	2
9	2	3	5	3
7	8	9	4	M

Sonuç
(Result) $\Rightarrow M = ?$

- A) 18 B) 19 C) 20 D) 21 E) 22

7.

				Sonuç (Result)
3	4	1	2	N
5	6	7	1	20
1	2	4	8	16
9	1	6	2	19

 $\Rightarrow N = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

8.

				Sonuç (Result)
10	14	5	8	11
9	7	6	1	9
5	9	3	8	3
6	14	10	2	R

 $\Rightarrow R = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

9.

					Sonuç (Result)
4	12	6	6	7	
8	2	14	8	3	
6	2	16	8	5	
10	8	2	14	5	
14	12	M	18	10	

 $\Rightarrow M = ?$

- A) 18 B) 19 C) 20 D) 21 E) 22

10.

				Sonuç (Result)
6	9	12	15	L
3	3	18	21	15
6	9	6	3	8
3	3	6	12	8

 $\Rightarrow L = ?$

- A) 18 B) 17 C) 16 D) 14 E) 11

11.

				Sonuç (Result)
16	10	3	L	
2	4	8	3	
8	8	4	4	
4	5	6	9	

 $\Rightarrow L = ?$

- A) 10 B) 12 C) 14 D) 16 E) 18

12.

				Sonuç (Result)
11	12	5	3	
18	61	7	4	
15	72	21	3	
L	39	4	8	

 $\Rightarrow L = ?$

- A) 23 B) 24 C) 25 D) 26 E) 27



YANITLAR / ANSWERS

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

1.

Sonuç
(Result)

5	10	2	7	3	3
6	12	13	6	3	2
7	7	8	9	15	10
M	3	5	2	1	5

 $\Rightarrow M = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

4.

Sonuç
(Result)

7	9	9	5
1	4	4	3
8	16	12	?
9	2	5	4

- A) 3 B) 4 C) 5 D) 6 E) 7

2.

Sonuç
(Result)

3	9	12	8
7	8	13	6
15	7	5	5
5	4	2	5
15	14	16	K

 $\Rightarrow K = ?$

- A) 12 B) 13 C) 14 D) 15 E) 16

5.

Sonuç
(Result)

3	7	5	11
7	8	5	4
2	12	5	3
4	9	5	?

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

3.

Sonuç
(Result)

4	7	5	N
6	3	4	7
10	6	17	12
14	15	3	16

 $\Rightarrow N = ?$

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

6.

Sonuç
(Result)

6	3	2	6
3	9	3	?
5	5	1	5
1	7	7	7
16	2	2	8

- A) 7 B) 8 C) 9 D) 10 E) 11

7.

Sonuç (Result)			
5	7	9	5
7	11	3	7
9	6	2	9
13	5	7	?

- A) 11 B) 12 C) 13 D) 14 E) 15

8.

Sonuç (Result)			
4	2	5	8
5	6	7	2
0	2	15	?

- A) 3 B) 4 C) 5 D) 6 E) 7

9.

Sonuç (Result)			
2	9	8	
4	5	7	
7	11	3	
4	?	9	

- A) 6 B) 7 C) 8 D) 9 E) 10

10.

Sonuç (Result)			
5	7	4	8
9	3	6	?
5	12	3	10
8	4	2	7

- A) 6 B) 7 C) 8 D) 9 E) 10

11.

Sonuç (Result)				
5	4	7	2	6
8	5	9	3	13
1	9	3	2	3
7	3	4	4	?

- A) 5 B) 6 C) 7 D) 8 E) 9

12.

Sonuç (Result)				
8	1	3	2	49
7	5	4	3	32
4	9	1	5	34
6	2	5	1	?

- A) 8 B) 9 C) 10 D) 11 E) 12



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

1.

5	10	3	7
3	9	K	6
6	8	6	5
3	5	8	9

 $\Rightarrow K = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

4.

14	13	15	12
9	17	12	14
8	16	10	14
M	7	5	10

 $\Rightarrow M = ?$

- A) 8 B) 7 C) 6 D) 5 E) 4

2.

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

 $\Rightarrow L = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

5.

6	3	5	8
5	8	4	5
3	6	2	10
10	4	10	K

 $\Rightarrow K = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

3.

6	4	8	3
6	3	9	2
K	L	4	3
6	5	3	10

 $\Rightarrow K \cdot L = ?$

- A) 8 B) 9 C) 12 D) 15 E) 18

6.

1	1	2	2
1	0	1	0
2	3	1	6
3	1	1	K

 $\Rightarrow K = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

7.

4	16	8	2
5	10	8	4
8	6	3	4
K	5	10	6

 $\Rightarrow K = ?$

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

8.

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

 $\Rightarrow M = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

9.

2	13	3
1	17	4
2	M	4

 $\Rightarrow M = ?$

- A) 16 B) 18 C) 20 D) 22 E) 24

10.

4	2	4
9	3	36
5	1	K

3	2	25
2	4	36
8	1	L

 $\Rightarrow K + L = ?$

- A) 94 B) 95 C) 96 D) 97 E) 98

11.

3	4	22	5	2
1	6	27	7	3
5	2	M	2	3
4	3	19	1	7

 $\Rightarrow M = ?$

- A) 15 B) 16 C) 17 D) 18 E) 19

12.

3	2	1
4	2	8
12	9	27
8	6	8
14	10	?

- A) 27 B) 36 C) 49 D) 64 E) 81



YANITLAR / ANSWERS

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

1.

9	5	4	6
12	4	8	4
?	5	6	7
14	7	0	5

A) 8

B) 7

C) 6

D) 5

E) 4

4.

5	4	9	6	3
3	7	5	4	8
6	3	5	4	9
8	8	7	4	?

A) 4

B) 3

C) 2

D) 1

E) 0

2.

13	8	15	10	17
16	11	18	13	20
19	14	21	16	23
22	17	24	19	26
25	?	?	?	29

A) 22, 20, 27

B) 27, 22, 20

C) 22, 27, 20

D) 20, 22, 27

E) 20, 27, 22

5.

8	4	6	7
4	3	5	4
9	9	12	19
23	3	18	?

A) 9

B) 10

C) 11

D) 12

E) 13

3.

9			15
		L	
			25
K	26		M

$$\Rightarrow K + L + M = ?$$

A) 62

B) 72

C) 82

D) 92

E) 102

6.

15	8	7
4	3	1
34	13	21
21	?	8

A) 15

B) 13

C) 11

D) 9

E) 7

7.

2	6	1	2
3	9	2	7
K	5	3	5
7	3	2	1

 $\Rightarrow K = ?$

- A) 1 B) 3 C) 5 D) 7 E) 9

8.

18	24	6	?
6	4	2	2
3	6	3	8

- A) 10 B) 12 C) 14 D) 16 E) 18

9.

4	3	9	3
5	4	12	8
x	6	9	9
3	5	y	8

 $\Rightarrow x + y = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

10.

5	8	12	4	29
11	7	6	1	25
9	6	13	7	35
8	9	3	5	25
16	8	?	?	36

- A) 9, 2 B) 11, 3 C) 8, 4
D) 6, 5 E) 7, 6

11.

9	12	6
5	4	6
12	x	6

 $\Rightarrow x = ?$

- A) 15 B) 18 C) 21 D) 27 E) 30

12.

6	12	4
8	8	2
9	18	x
y	24	8

 $\Rightarrow x + y = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14



YANITLAR / ANSWERS

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

1.

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

 $\Rightarrow x = ?$

A) 0

B) 1

C) 2

D) 3

E) 4

4.

16	8	6	4
12	6	2	9
4	2	2	3
12	3	x	y

 $\Rightarrow x, y = ?$

A) 3, 4

B) 4, 5

C) 3, 5

D) 4, 6

E) 3, 2

2.

9	4	25
6	3	9
12	7	x
8	4	16

 $\Rightarrow x = ?$

A) 4

B) 25

C) 64

D) 81

E) 144

5.

1	2	5	5
0	6	4	4
2	1	6	6
0	2	7	x

 $\Rightarrow x = ?$

A) 0

B) 1

C) 2

D) 3

E) 4

3.

5	3	21	6
7	9	1	7
12	2	3	11
24	14	25	x

 $\Rightarrow x = ?$

A) 20

B) 21

C) 22

D) 23

E) 24

6.

6	4	2	7
x	1	6	y
5	1	5	3
8	3	2	4

 $\Rightarrow x, y = ?$

A) 2, 6

B) 2, 8

C) 6, 8

D) 3, 4

E) 4, 2

7.

6	8	0	0
0	3	7	0
3	2	4	24
K	7	2	42

 $\Rightarrow K = ?$

- A) 4 B) 3 C) 2 D) 1 E) 0

8.

6	7	8
5	7	9
8	x	8

 $\Rightarrow x = ?$

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

9.

6	36	12	8
5	17	18	7
4	12	12	6
x	1	y	9

 $\Rightarrow y = ?$

- A) $9x + 2$ B) $9x + 1$ C) $9x$
D) $9x - 1$ E) $9x - 2$

10.

4	3	6
2	5	3
20	34	A

 $\Rightarrow A = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

11.

2	5	6	16
1	?	9	13
2	2	5	15
1	4	4	12

- A) 5 B) 6 C) 7 D) 8 E) 9

12.

11	9	8
18	36	12
42	?	38

- A) 10 B) 12 C) 14 D) 16 E) 18

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

1.

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

- A) 4 B) 3 C) 2 D) 1 E) 0

4.

6	5	8	5
9	10	6	5
4	6	10	9
8	6	3	K

 $\Rightarrow K = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

2.

8	2	1	6
4	3	1	2
K	5	3	5
2	L	1	8

 $\Rightarrow L - K = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

5.

1	1	64
2	4	8
16	2	2
4	4	4
8	1	K

 $\Rightarrow K = ?$

- A) 2 B) 4 C) 6 D) 8 E) 16

3.

5	2	2	5
6	2	3	6
3	3	2	7
4	3	6	K

 $\Rightarrow K = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

6.

4	8	3	6
5	7	9	3
6	9	8	1
14	47	19	K

 $\Rightarrow K = ?$

- A) 16 B) 17 C) 18 D) 19 E) 20

7.

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

- A) 1 B) 2 C) 3 D) 4 E) 5

8.

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

$$\Rightarrow K + L = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

9.

12	3	5	2
16	2	0	4
?	8	0	13

- A) 4 B) 3 C) 2 D) 1 E) 0

10.

4	3	6	6
5	2	7	3
6	3	6	12
4	5	14	?

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

11.

3	5	9	3
2	11	3	?
5	7	2	6
4	2	9	5

- A) 4 B) 5 C) 6 D) 7 E) 8

12.

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

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



YANITLAR / ANSWERS

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

Şekillerdeki karelere 1'den 9'a kadar olan rakamlar yazılacaktır. Köşegenin sağında verilen sayı o karenin sağındaki sayıların toplamını, solunda verilen sayı ise o karenin altındaki sayıların toplamını verir. Bir toplamı oluşturan rakamlar birbirinden farklı olmalıdır.

The squares in figures number of 1 to 9 will be written. The number to the right of the corners gives the sum of the numbers to the right of the square and the number to left gives the sum under that squares. The numbers that make up a sum must be different form each other.

Testi yukarıda verilen kurala göre cevaplayınız.

Answer this test according to the rules given above.

1.

	12	6
10		x
8	3	

⇒ x = ?

- A) 1 B) 2 C) 4 D) 5 E) 6

2.

	14	5
12	x	
7		3

⇒ x = ?

- A) 8 B) 9 C) 10 D) 11 E) 12

3.

	13	7
6		
x		

⇒ x = ?

- A) 10 B) 11 C) 12 D) 13 E) 14

4.

	12	14	16
11			
15			
x			

⇒ x = ?

- A) 10 B) 12 C) 14 D) 16 E) 18

5.

	10	14	18
16	1		8
15		x	
11	2		4

⇒ x = ?

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

	20	18	11
16		7	4
18		x	
15	6		3

$\Rightarrow x = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

7.

	20	16	22
22	8	z	9
19	x		8
17	5	y	5

$\Rightarrow x + y + z = ?$

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

8.

	20	22	x
16			
19			
y			

$\Rightarrow y - x = ?$

- A) 7 B) 6 C) 5 D) 4 E) 3

9.

	15	18	18
14	5		1
18		x	9
19		4	

$\Rightarrow x = ?$

- A) 1 B) 2 C) 4 D) 6 E) 8

10.

	22	18	30	24
20				
26				
18				
x				

$\Rightarrow x = ?$

- A) 27 B) 28 C) 29 D) 30 E) 31

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YANITLAR / ANSWERS

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

Şekilde verilen 3 x 3 kareye 1'den 9'a kadar sayılar birer kez kullanılarak yerleştirildiğinde her satırın ve sütunun toplamı eşittir.

When the numbers from 1 to 9 are placed into the square with 3 x 3 in the figure given by used once, sum of every line and column is equal.

1.

K	L	M

$$\Rightarrow K + L + M = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

2.

K	L	M

$$\Rightarrow K + M = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

3.

	7	y
9	z	
		x

$$\Rightarrow x + y + z = ?$$

- A) 19 B) 18 C) 17 D) 16 E) 15

4.

y		13
	x	
	10	

$$\Rightarrow x + y + z = ?$$

Yukarıdaki tabloda boş kutulara 8, 9, 11, 12, 14, 15 ve 16 sayıları yazılacaktır. Bu sayılar kutulara yazılırken satır, sütun ve köşegen toplamalarının eşit olması koşuluna uyulmalıdır.

Buna göre, $x + y + z$ kaçtır?

Numbers of 8, 9, 11, 12, 14, 15 and 16 will be written in the empty boxes of the table above. When the numbers are written; the row, column and diagonal sums will equal.

Accordingly, what is the value of $x + y + z$?

- A) 20 B) 21 C) 22 D) 23 E) 24

5.

	1	12	7
	8		2
5		3	
4	?		

Yukarıdaki tabloda boş kutulara 6, 9, 10, 11, 25, 26, 27 ve 28 sayıları yazılacaktır. Bu sayılar kutulara yazılırken satır, sütun ve köşegen toplamalarının eşit olması koşuluna uyulmalıdır.

Buna göre soru işaretinin yerine aşağıdaki sayılardan hangisi gelmelidir?

Numbers of 6, 9, 10, 11, 25, 26, 27 and 28 will be written in the empty boxes of the table above. When the numbers are written; the row, column and diagonal sums will equal. Accordingly, which of the following numbers does the questions mark stand for in table?

- A) 26 B) 27 C) 28 D) 29 E) 30

6.

74	1		7
		73	
		?	76
4	75		9

Yukarıdaki tabloda boş kutulara 2, 3, 5, 6, 8, 11 ve 12 sayıları yazılacaktır. Bu sayılar kutulara yazılırken satır, sütun ve köşegen toplamalarının eşit olması koşuluna uyulmalıdır.

Buna göre soru işaretinin yerine aşağıdaki sayılardan hangisi gelmelidir?

Numbers of 2, 3, 5, 6, 8, 11 and 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. Accordingly, which of the following numbers does the questions mark stand for in table?

- A) 3 B) 5 C) 6 D) 11 E) 12

7. $x = ?$

- A) 11 B) 12 C) 13 D) 14 E) 15

8. $y + z = ?$

- A) 24 B) 25 C) 26 D) 27 E) 28

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7, 8 ve 9. soruları aşağıda verilen tabloya göre cevaplayınız.

Answer the questions 7, 8 and 9 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 toplamaları eşittir.

When the numbers from 1 to 25 are placed into the square with 5 x 5 in the figure given by used once, sum of every line and column is equal.

				15
			y	
7	t	x	1	19
	12			
z				

9. $t = ?$

- A) 25 B) 24 C) 23 D) 22 E) 21



YANITLAR / ANSWERS

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

1 – 2. sorulardaki tablolarda, 1, 2, 3 ve 4 sayıları her satırda ve sütunda birer kez olacak şekilde yerleştirilecektir.

1 – 2 questions in the tables, the numbers 1, 2, 3 and 4 are placed in each lines and columns for each one time.

3 – 4. sorulardaki tablolarda, 1, 2, 3, 4 ve 5 sayıları her satırda ve sütunda birer kez olacak şekilde yerleştirilecektir.

3 – 4 questions in the tables, the numbers 1, 2, 3, 4 and 5 are placed in each lines and columns for each one time.

1.

x			
	1	4	
	2	1	3
		y	4

$$\Rightarrow x + y = ?$$

A) 1

B) 2

C) 3

D) 4

E) 5

3.

4				
		x		
	4			
			4	
				4

A) 1

B) 2

C) 3

D) 4

E) 5

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2.

y		4	2
	1		
2			x
		1	3

$$\Rightarrow x + y = ?$$

A) 1

B) 2

C) 3

D) 4

E) 5

4.

		1		
2		x		3
		4		

A) 1

B) 2

C) 3

D) 4

E) 5

5, 6 ve 7. sorulardaki tablolarda, 1, 2, 3, 4, 5 ve 6 sayıları her satırda ve sütunda birer kez olacak şekilde yerleştirilecektir.
5, 6 ve 7 questions in the tables, the numbers 1, 2, 3, 4, 5 and 6 are placed in each lines and columns for each one time.

5.

1	3	2			5
x	5	4	6	1	
	4		1	2	6
6	2	z		5	4
4	y	5	2	3	
3		6	5		2

$$\Rightarrow x + y - z = ?$$

- A) 1 B) 2 C) 3 D) 5 E) 7

6.

6	4	x	3	1	
3	1	2		4	5
2	5	3	y		4
	6	4	2	5	
4	2			3	1
5		1	4	z	6

$$\Rightarrow x + y + z = ?$$

- A) 2 B) 3 C) 4 D) 6 E) 8

7.

6	1	4	5	3	
4	3		2	5	1
5			y	2	
1	2			6	z
3	x	2	1	4	
	5		4	1	6

$$\Rightarrow x = ?, y = ?, z = ?$$

- A) 5, 3, 3
B) 6, 6, 4
C) 6, 3, 5
D) 5, 6, 5
E) 5, 3, 4

8.

4	5	3	x		
		2			3
y			3		6
	3	1		4	
3					2
	1	5		z	

$$\Rightarrow x + y + z = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14



YANITLAR / ANSWERS

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

1.

-	a	b	c
a			
b	5		
c		3	

$$a > b > c$$

$$\Rightarrow a - c = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

4.

+	a	b	c
a		2c	
b			18
c	22		

$$\Rightarrow c = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

2.

÷	4	6	8
2	2		
3			L
4		K	

$$\Rightarrow K \times L = ?$$

- A) 1 B) $\frac{3}{2}$ C) 2 D) 4 E) 6

5.

+	a	b	c
a		x	
b			y
c	z		

x	a	b	c
a	$\frac{L}{2}$	K	
b		$\frac{M}{2}$	L
c	M		$\frac{K}{2}$

$$\Rightarrow x^2 + y^2 + z^2 = ?$$

- A) $\frac{K+L+M}{4}$ B) $\frac{K+L+M}{2}$ C) $K+L+M$
D) $2 \cdot (K+L+M)$ E) $3 \cdot (K+L+M)$

3.

÷	K	8	L
2		4	
M	4		1
8	3		

$$\Rightarrow L = ?$$

- A) 8 B) 6 C) 4 D) 2 E) 1

6.

$\sqrt{+}$	a	b	c
a		$2\sqrt{6}$	
b			
c	$3\sqrt{2}$		

$\sqrt{x}$	a	b	c
a			
b			4
c			

$$\Rightarrow a = ?$$

- A) 16 B) 8 C) 4 D) 2 E) 1

7. $m, n, t \in \mathbb{Z}^+$

$\sqrt{x}$	m	n	t
m			$2\sqrt{5}$
n	$2\sqrt{3}$		
c		$\sqrt{5}$	

$$\Rightarrow m + n + t = ?$$

- A) 12 B) 11 C) 10 D) 9 E) 8

8.

+	a	b
a		$4a$
b	$x-b$	

$$\Rightarrow x = ?$$

- A) a B) $3a$ C) $5a$ D) $7a$ E) $9a$

9.

+	a	b	c
a		K	
b			L
c	M		

$$\Rightarrow 3b - 2a - c = ?$$

- A) $L + 2K + 3M$ B) $2M - 3K + L$
 C) $K - 2L + 3M$ D) $2M - K + 6L$
 E) $K + 2L - 3M$

10.

+	a	b	c
a		$4K$	
b			$2L$
c	$6M$		

$$a + b + c = 24$$

$$K - L = 3$$

$$\Rightarrow K + M = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

11.

+	a	b	c
a		$3c$	
b			$a+2$
c	$b+6$		

$$\Rightarrow a + b - c = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

12.

x	K	L	M
K			30
L	35		
M		42	

$$\Rightarrow K + L = ?$$

- A) $1/2$ B) 1 C) 5 D) 10 E) 12

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YANITLAR / ANSWERS

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

1.

+	a	b	c
a		$x+1$	
b			$-2x^2+4x+4$
c	$4x^2+3x-5$		

$$a + b + c = mx^2 + nx + p \Rightarrow m + n + p = ?$$

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

4.

x	A	B	C
A			
B			K
C	3K		2K

$$\Rightarrow A = ?$$

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

2.

+	a	b	c
a		$x-y$	$x+z$
b			
c		$y+z$	

$$\Rightarrow b = ?$$

- A) $x+y$ B) $x-z$ C) $x-2y$ D) $2z+x$ E) 0

5.

x	4	7	K
L		56	
12			108
M	64		

$$\Rightarrow K + L + M = ?$$

- A) 32 B) 33 C) 34 D) 35 E) 36

3.

+	x	y	z
x		18	
y			20
z	16		

$$\Rightarrow 4x - 3y + z = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

6.

x	a	b	c
a			
b	17		13
c	22		

$$\Rightarrow \frac{ab+bc+ac}{2} = ?$$

- A) 25 B) 26 C) 27 D) 28 E) 29

7.

+	a	b	c
a			8
b		4c	
c		18	

$$\Rightarrow a = ?$$

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

8.

+	K	L	M
K			
L	48		
M			K+L

$$\Rightarrow K + L + M = ?$$

- A) 96 B) 72 C) 64 D) 48 E) 36

9.

+	x	y	z
x			
y			$x+y+z-3$
z	8		

$$x + y + z = 12 \Rightarrow \frac{y+z}{x} = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

10.

x	A	B	C
K		X	
L	Y		
M			Z

$$2AL + 4BK + 6MC = T$$

$$\Rightarrow 2x + y + 3z = ?$$

- A) T^2 B) $2T$ C) T D) $T/2$ E) $T/3$

11.

+	x	y	z
x		A	
y			C
z	B		

$$AB + AC = x + y + 2z$$

$$\Rightarrow A = ?$$

- A) 1 B) $x + z$ C) $y + z$
D) $2x + y$ E) $x + y + z$

12.

x	K	L	M
K		48	
L			24
M	32		

$$\Rightarrow M = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4



YANITLAR / ANSWERS

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

1.

+	a	b	c
a			
b			20
c	18		

x	a	b
a		63
b		

$$\Rightarrow C = ?$$

- A) 11 B) 10 C) 9 D) 8 E) 7

4.

x	a	b	c	d
a		20		
b			y	
c				48
d	32			

$$\Rightarrow y = ?$$

- A) 28 B) 29 C) 30 D) 31 E) 32

2.

$$c \in \mathbb{R}^+$$

+	a	b	c
a	b-c	6c	
b		c^2	
c			

$$\Rightarrow b + c = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

5.

+	b	c	d
a	9		c-1
b	4a	14	

$$\Rightarrow d = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

3.

+	a	b	c	d
a				x
b	13			
c		17		
d			14	

$$\Rightarrow x = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

6.

x	K	L	M
K		$3a + b$	
L			
M	$a + 2c$	$2c - b$	

$$\Rightarrow K(L - M) + LM = ?$$

- A) 0 B) a C) 2a D) 4a E) 6a

7.

x	a	b	c
a			64
b	96		
c		24	

$$\Rightarrow a + b - c = ?$$

- A) 12 B) 18 C) 20 D) 22 E) 26

8.

+	a	b	c
a		10	12
b			
c			

x	a	b	c
a			32
b	24		

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

9.

x	a	b	c
a			18
b	27		
c		54	

$$\Rightarrow \frac{b+c}{a} = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

10.

+	a	b	c
a		c+3	
b			3a+1
c	14		

$$\Rightarrow a \cdot b = ?$$

- A) 30 B) 35 C) 40 D) 45 E) 50

11.

x	a	b	c
a			16b
b	4c		

+	a	b	c
a			
b			33

$$\Rightarrow a = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

12. $x < 0 < y < z$, $m \in \mathbb{Z}^+$

+	x	y	z
x		-1	
y			
z	2		

$$|x - z| - |x| - |y - x| + |m - x| = 6$$

$$\Rightarrow m = ?$$

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



YANITLAR / ANSWERS

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

1.

	5	6	8	12
A	L	13	K	25
B	16	M	25	37

$$\Rightarrow K + L + M = ?$$

- A) 25 B) 38 C) 47 D) 53 E) 61

4.

▲	2	10	14
4	3	7	L
8	5	M	11
12	K	11	13

$$\Rightarrow K + L + M = ?$$

- A) 22 B) 23 C) 24 D) 25 E) 26

2.

P	3	5	7
□	—	—	—
△	1		
◇		1	K

$$\Rightarrow K = ?$$

- A) 2 B) 3 C) 4 D) 5 E) —

5.

★	28	27	33
24	16	15	x
18	y	18	15
36	19	z	15

$$\Rightarrow x + y - z = ?$$

- A) 8 B) 13 C) 12 D) 15 E) 18

3.

○	13	22	18
8	5	14	K
11	2	L	7
9	M	13	9

$$\Rightarrow K - L + M = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

6.

□	7	3	11
4	10	3	K
2	L	6	4
9	9	M	18

$$\Rightarrow K - L + M = ?$$

- A) 8 B) 9 C) 12 D) 15 E) 18

7.

☆	5	7	12
4	10		L
3	K	-	18
2		7	M

 $\Rightarrow K, L, M = ?$

- A) 24, -, 12 B) 12, 24, - C) -, 24, 12
D) -, 12, 24 E) 24, 12, -

8.

■	21	34	52
4	-	*	B
6	-	A	*
7	C	-	-

 $\Rightarrow C, B, A = ?$

- A) -, -, - B) -, *, - C) *, *, *
D) *, *, - E) *, -, *

9.

	2	5	9
12	-	-	?
9	-	1	9
3	1	7	15

- A) 4 B) 5 C) 6 D) 7 E) 8

10.

■	5	9	13	18
4	9	D		
7		6	B	
11	A			9
15	0		8	C

 $\Rightarrow A + B + C + D = ?$

- A) 12 B) 16 C) 18 D) 20 E) 22

11.

■	4	5	6
3	2	5	8
5	0	?	0
7	8	5	2

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

12.

■	8	12	15
4	4		
7		9	6
9	?	15	

- A) 19 B) 20 C) 21 D) 22 E) 23



YANITLAR / ANSWERS

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

1.

	4	8	10
5	14		
7		22	?
9	22		

- A) 9 B) 18 C) 24 D) 32 E) 48

4.

	17	24	38
5			66
13	8		
15	4	18	?

- A) 15 B) 28 C) 36 D) 46 E) 54

2.

	5	7	9
12			9
15	100	?	
18			81

- A) 16 B) 24 C) 36 D) 54 E) 64

5.

	4	6	8
12	6	?	
14	8		4
16	0	4	

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

3.

	5	9	14
12	29		
7	?		28
3		15	

- A) 18 B) 19 C) 20 D) 21 E) 22

6.

	14	32	68
24	3		?
43	5	7	
52	6		12

- A) 7 B) 8 C) 9 D) 10 E) 11

7.

	13	21	34
9	13		16
11		5	
27	?		16

- A) 5 B) 7 C) 9 D) 11 E) 13

8.

	9	7	3
12		?	27
8	3		
5	12	6	

- A) 2 B) 7 C) 15 D) 23 E) 32

9.

	21	32	44
13	12		
9		4	?
6	14		0

- A) 5 B) 10 C) 15 D) 20 E) 25

10.

	17	23	42
62		?	
54	17		15
35		13	

- A) 13 B) 11 C) 9 D) 7 E) 5

11.

	4	6	7
3		33	
5	11		?
9	7		40

- A) 44 B) 45 C) 46 D) 47 E) 48

12.

★	5	2	8	3
7	13	10	16	11
1	7	4	10	5
6	12	9	15	10
8	?	?	?	12

- A) 13, 10, 16 B) 10, 11, 15 C) 12, 9, 15
D) 14, 15, 17 E) 14, 11, 17



YANITLAR / ANSWERS

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

1.

x	a	b	c
a			27
b	54		
c		18	

$$\Rightarrow \frac{a \cdot b}{c} = ?$$

- A) 15 B) 18 C) 21 D) 24 E) 27

4.

8	11	5	2
7	4	3	1
3	4	20	8
12	7	5	1
7	?	2	1

- A) 1 B) 2 C) 3 D) 4 E) 5

2.

+	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

5.

+	a	b	c
a		39	
b			21
c			

x	a	b	c
a			63
b			
c			

$$\Rightarrow b = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

3.

x	a	b	c
a		3c	
b			48
c	32		

$$\Rightarrow b + c = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

6.

	5	3	4	2
11	96	112	105	119
10	75	91	84	96
9	56	72	66	77
8	?	?	?	60

- A) 24, 30, 47 B) 60, 48, 55 C) 55, 61, 40

- D) 48, 39, 27 E) 39, 55, 48

7.

+	a	b	c
a			$b/2$
b			
c			

$$\Rightarrow a - c = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

8.

33			45	
	a			
				b
24		32		

$$\Rightarrow a + b = ?$$

- A) 76 B) 77 C) 78 D) 79 E) 80

9.

	7	4	5
2	★	3	★
1	4	★	3
3	I	II	III

$$\Rightarrow \begin{aligned} I &= ? \\ II &= ? \\ III &= ? \end{aligned}$$

- A) 5, ★, 4 B) 6, 7, 8 C) 10, ★, 5
D) ★, 3, 1 E) ★, 5, ★

10.

+	a	b	c
a			24
b	18		
c		28	

$$\Rightarrow \frac{c-a}{2} = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.

x	a	b	c
a		24	
b			12
c	32		

$$\Rightarrow c^2 = ?$$

- A) 9 B) 16 C) 25 D) 36 E) 49

12.

▼	5	7	8
9	28	32	A
3	B	20	22
1	12	C	18

$$\Rightarrow A + B + C = ?$$

- A) 62 B) 64 C) 66 D) 68 E) 70



YANITLAR / ANSWERS

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

1.

+	a	b	c	d
a				
b				5
c	4			
d				

$$\Rightarrow ab + ad + bc + dc = ?$$

- A) 9 B) 16 C) 20 D) 25 E) 30

4.

17	23	15	27
13	11	9	8
30	12	24	?

- A) 15 B) 16 C) 17 D) 18 E) 19

2.

9	8	3	4
6	2	9	8
7	8	5	1
5	9	10	?

- A) 13 B) 14 C) 15 D) 16 E) 17

5.

x	a	b	c
a		b	c
b			2.c
c			

$$\Rightarrow c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3.

A				36
				32
	19			
			B	

$$\Rightarrow A - B = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

★	5	3	4	6
7	12	10	28	42
2	10	6	16	24
8	40	?	?	?

- A) 25, 17, 96 B) 96, 48, 96 C) 24, 64, 96
D) 64, 24, 48 E) 24, 64, 108

7.

*	4	7	11
13	—	4	M
24	—	—	K
41	9	L	—

 $\Rightarrow K, L, M = ?$

- A) —, 7, — B) —, —, 7 C) 7, —, —
D) 7, 7, 7 E) —, —, —

8.

		12	
	13		
	?		17

- A) 13 B) 14 C) 15 D) 16 E) 17

9.

+	a	b	c	d
a		28		
b			34	28
c	42			

 $\Rightarrow d = ?$

- A) 15 B) 18 C) 21 D) 24 E) 27

10.

12	8	5	5
41	1	7	7
12	18	34	8
13	63	5	?

- A) 6 B) 9 C) 12 D) 15 E) 18

11.

+	a	b	c
a			
b		c	

x	a	b	c
a	b+a		
b	2.c		

 $\Rightarrow c + b = ?$

- A) 4 B) 5 C) 16 D) 24 E) 36

12.

		34	37
A			
34		40	
			B

 $\Rightarrow \frac{B-A}{3} = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5



YANITLAR / ANSWERS

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

1.

+	K	L	M
K		a	21
L	30		c
M	b	25	

$$\Rightarrow \sqrt{b+c-a} = ?$$

- A) 16 B) 62 C) 8 D) 4 E) 1

4.

3	2	5	7	6
12	7	1	4	5
9	3	9	2	9
21	2	8	3	8
3	?	5	7	6

- A) 1 B) 2 C) 3 D) 4 E) 5

2.

x	K	L
K		
L		M
M	32L	

$$\Rightarrow KL = ?$$

- A) 8 B) 16 C) 32 D) 64 E) 128

5.

5	41	4
7	M	2
6	45	3
K	52	L

$$\Rightarrow M - (K + L) = ?$$

- A) 43 B) 45 C) 47 D) 49 E) 51

3.

●	7	9	13
8	M	—	—
11	★	★	K
16	L	—	—

$$\Rightarrow K, L, M = ?$$

- A) ★, ★, ★ B) —, —, — C) —, ★, —
D) ★, —, — E) —, ★, ★

6.

★	4	8	9
10		16	
5	8	K	
6			12

$$\Rightarrow K = ?$$

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

7.

●	42	23	16
14	11	10	
18	6		L
27	K		

$\Rightarrow K + L = ?$

- A) 21 B) 22 C) 23 D) 24 E) 25

8.

9	4	3	12
5	8	20	2
4	7	14	2
6	4	3	K

$\Rightarrow K = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14

9.

2	4	1	2
3	3	1	6
5	2	1	5
1	4	2	1
11	13	L	14

$\Rightarrow L = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

10.

4	8	6	9
10	12	14	18
6	8	16	K
4	6	12	11

$\Rightarrow K = ?$

- A) 13 B) 14 C) 15 D) 16 E) 17

11.

▲	4	8	6	7
5	20	40	30	12
1	K	8	6	8
6	2	2	L	42
3	12	24	18	M

$\Rightarrow K + L + M = ?$

- A) 8 B) 14 C) 18 D) 25 E) 28

12.

6	4	14	10
7	2	8	6
8	3	x	7
5	4	7	13

$\Rightarrow x = ?$

- A) 15 B) 16 C) 17 D) 18 E) 19



YANITLAR / ANSWERS

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

1.

				Sonuç (Result)
5	3	4	2	7
6	4	7	3	3
7	4	5	5	3
5	x	7	4	7

 $\Rightarrow x = ?$

A) 4

B) 5

C) 6

D) 7

E) 8

4.

☆	3	7	8
5	4	A	—
4	B	—	6
6	—	C	7

 $\Rightarrow A, B, C = ?$

A) 2, -, 5

B) -, 7, 3

C) -, -, 6

D) 6, -, -

E) -, -, -

2.

8	1	7	4	20
5	9	6	8	28
6	3	7	1	17
2	3	5	6	x

 $\Rightarrow x = ?$

A) 14

B) 15

C) 16

D) 17

E) 18

5.

7	6	36	1	6
9	4	8	7	4
3	7	11	2	5
8	5	28	4	3
9	2	x	2	6

 $\Rightarrow x = ?$

A) 5

B) 6

C) 7

D) 8

E) 9

3.

★	2	3	4
7	9	A	
5	B	15	9
3	5	9	

 $\Rightarrow A - B = ?$

A) 14

B) 16

C) 18

D) 20

E) 22

6.

●	△	□	◇	○
△	9	3		L
□		K	2	
◇	6			
○	M		3	9

 $\Rightarrow \sqrt{K+L+M} = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

7.

4	3	3	9	3
3	4	8	2	9
9	3	4	8	11
21	K	28	26	38

 $\Rightarrow K = ?$

- A) 12 B) 13 C) 15 D) 18 E) 20

8.

○	a	b	c	d
a	1	5	6	7
b	5	2	8	9
c	6	8	3	10
d	7	9	10	4

 $\Rightarrow \frac{(a \odot c)(b \odot d)}{(b \odot b)} = ?$

- A) 25 B) 27 C) 29 D) 31 E) 33

9.

	18	23	34
12	12	33	K
17	3	L	51
25	M	—	27

 $\Rightarrow K, L, M = ?$

- A) 21, 18, 66 B) 18, 21, 66 C) —, 66, 18
D) —, 18, 66 E) 66, 18, —

10.

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

 $\Rightarrow x = ?$

- A) 9 B) 8 C) 7 D) 6 E) 5

11.

☼	□	○	△	⬠
□	40	y		
○		10		30
△	x			
⬠	45		z	

 $\Rightarrow x + y + z = ?$

- A) 70 B) 80 C) 90 D) 100 E) 110

12.

■	4	7	9
5	K	6	L
8	6		—
12	8	M	

 $\Rightarrow K, L, M = ?$

- A) —, 7, — B) —, —, 7 C) 7, —, —
D) 14, 7, — E) —, —, —



YANITLAR / ANSWERS

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

1.

A	▲	◆	□
▲	-	K	6
◆	6	L	8
□	6	M	8

 $\Rightarrow K, L, M = ?$

A) 6, 6, 8

B) 6, -, 8

C) 6, 8, 6

D) 6, 8, 8

E) 8, 6, 8

4.

	3	5	7
⊗	A	125	
⊗	9		B

 $\Rightarrow B - A = ?$

A) 40

B) 34

C) 28

D) 22

E) 16

2.

*	23	61	120
3		?	
4	3		
5			5

A) 8

B) 4

C) 2

D) 1

E) 0

5.

*	9	12	5
21		4	7
13	12		
18	17		?

A) 15

B) 13

C) 11

D) 9

E) 7

3.

*	7	13	21
8		12	11
12	10		
16	?	11	10

A) 3

B) 7

C) 12

D) 14

E) 17

6.

*	18	21	24
3	?		20
7		13	
11	6		12

A) 15

B) 14

C) 13

D) 12

E) 11

7.

*	84	76	68
58	25		27
66		25	?
83		24	25

- A) 28 B) 27 C) 26 D) 25 E) 24

8.

*	8	14	18
5	3		?
13		14	
22	0	18	0

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

9.

÷	21	32	43
4	6	10	
7			19
9	11	?	

- A) 12 B) 13 C) 14 D) 15 E) 16

10.

⊕	2	3	4
2	4	K	
3			L
4	8		

 $\Rightarrow L = ?$

- A) K B) K^2 C) 2K
D) $2K + 1$ E) $K - 1$

11.

☆	2	5	6	9
11	-	16	-	20
9	B	14	A	18
8	10	C	14	-

 $\Rightarrow A, B, C = ?$

- A) -, -, - B) -, 12, - C) 14, -, 14
D) 15, 11, 13 E) 13, 15, 11

12.

◆	12	14	13
17	25		16
15			
18	x		25

 $\Rightarrow x = ?$

- A) 7 B) 16 C) 25 D) 36 E) 49



YANITLAR / ANSWERS

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

1.

▲	66	48	37
123	72	7	
64			0
22	64	K	45

$$\Rightarrow K = ?$$

- A) 24 B) 18 C) 12 D) 6 E) 0

2.

●	□	◁	◻
◻			
▽		18	
□		24	

$$\Rightarrow \square \bullet \nabla = ?$$

- A) $\triangle \bullet \square$ B) $\square \bullet \diamond$ C) $\diamond \bullet \triangle$
D) $\diamond \bullet \triangle$ E) $\diamond \bullet \nabla$

3.

▲	12	9	6
15	Y		
13		64	
11		X	125

$$\Rightarrow X + Y = ?$$

- A) 30 B) 35 C) 40 D) 45 E) 50

4.

	□	△	◻	◻
4	—	K	L	—
7	M	—	—	13
13	P	—	—	19

$$\Rightarrow (K + P) - (L + M) = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

5.

	5	7	9
□	20	28	36
△	X	100	144
○	Z	49	Y

$$\Rightarrow X + Z - Y = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

6.

	64	216	729
▲	4	A	9
◆	C	$6\sqrt{6}$	27
●	B	12	126

$$\Rightarrow \frac{A \cdot C}{B} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

7.

	5	7	8	12
□	9	N		
○		49	K	
▽	L			9
◇	25		40	M

$$\Rightarrow (M + N) - (K + L) = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

8.

▲	21	45	56
3	-		
4	5	7	
8		-	8

$$\Rightarrow a \blacktriangle b = ?$$

- A) $a^2 - b^2$ B) $(a - b)^2$ C) $\sqrt{a^2 + b^2}$
 D) $\sqrt{a + b}$ E) $a^3 - b^3$

9.

●	12	14	15
7	L	2	4
9	2	K	8
13	10	14	M

$$\Rightarrow K + L + M = ?$$

- A) 29 B) 30 C) 31 D) 32 E) 33

10.

●	24	38	51
22	10	?	
33	12		
42		8	12

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

11.

▲	7	12	17
3	8	?	
5			24
6		12	

- A) 16 B) 18 C) 20 D) 22 E) 24

12.

●	12	13	14
5	-	*	M
6	*	L	*
7	-	*	K

$$\Rightarrow K, L, M = ?$$

- A) -, -, * B) *, -, * C) -, *, -
 D) -, -, - E) *, *, *



YANITLAR / ANSWERS

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

1.

*	3	5	7
1	M	24	48
2	5	21	45
3	0	K	40

$$\Rightarrow K \times M = ?$$

- A) 128 B) 132 C) 144 D) 154 E) 62

4.

♦	a	b	c
2	4	7	M
3	6	L	7
4	K	13	9

$$\Rightarrow K + L + M = ?$$

- A) 20 B) 21 C) 22 D) 23 E) 24

2.

♠	a	b	c
x	8	1	6
y	3	5	7
z	4	9	2

$$\Rightarrow \frac{(x \spadesuit a) + (y \spadesuit c)}{(a \spadesuit y)} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

▲	2	3	4
8	6		
11	X	9	16
13	12	27	

$$\Rightarrow X = ?$$

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

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3.

*	7	8	6
5	x	9	1
4	9	y	4
3	16	25	z

$$\Rightarrow x + y + z = ?$$

- A) 29 B) 30 C) 31 D) 32 E) 33

6.

■	12	13	14
8	C	3	
9	3		B
13	A		9

$$\Rightarrow A - (B + C) = ?$$

- A) 4 B) 3 C) 2 D) 1 E) 0

7.

●	21	K	33
12	—	3	9
17	—	4	10
24	9	—	—

$$\Rightarrow K = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

8.

	△	□	◇	○
□	—	8	—	10
◇	—	9	—	11
○	—	10	—	12
○	—	K	—	L

$$\Rightarrow K = ?$$

$$\Rightarrow L = ?$$

- A) —, 11 B) 11, — C) 11, 13
D) 13, 11 E) 13, —

9.

□	8	5	4
7	30	24	K
9	34	L	26
3	M	16	14

$$\Rightarrow K + M - L = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

10.

▲	2	3	4
12	16	18	a
13	b	19	21
14	18	c	22

$$\Rightarrow a + b + c = ?$$

- A) 47 B) 48 C) 50 D) 57 E) 67

11.

★	18	24	28
25	3	4	5
16	7	8	9
19	3	2	1

$$\Rightarrow \frac{(25 \star 18) + (16 \star 28)}{(19 \star 24) + (19 \star 28)} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

12.

★	13	17	21
11	2		x
15	y	2	
19		z	2

$$\Rightarrow x + y + z = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15



YANITLAR / ANSWERS

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

1.

	12	15	19
8	12		
9		18	30
11	?	12	24

- A) 3 B) 12 C) 24 D) 35 E) 42

4.

	4	5	9
12		7	2
11	5		
8	2	?	7

- A) 0 B) 1 C) 2 D) 3 E) 4

2.

	5	9	13
21	8		?
38		20	
54	14		13

- A) 3 B) 5 C) 7 D) 9 E) 11

5.

	7	12	14
5	K	-	-
9	8	L	-
13	10	-	M

 $\Rightarrow K, L, M = ?$

- A) -, -, 12 B) -, -, 6 C) -, 6, -
D) 6, -, - E) 12, -, -

3.

	1	4	9
16		6	M
25	K		8
36	7		L

 $\Rightarrow K + L + M = ?$

- A) 14 B) 18 C) 22 D) 26 E) 30

6.

	5	9	13
7		?	
8	3		2
12		2	10

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

7.

	13	21	42
65		32	
58	43		48
43	15		?

- A) 12 B) 20 C) 34 D) 48 E) 62

8.

	7	9	12
5	?		3
4	5		
3		0	-

- A) - B) 4 C) 8 D) 12 E) 16

9.

2	3	4	5
6	8	9	2
5	7	3	1
6	9	8	7
19	27	24	K

$$\Rightarrow K = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

10.

6	4	5	5
8	2	11	7
6	2	10	6
5	3	4	K

$$\Rightarrow K = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.

3	3	3	3
1	1	2	2
8	7	10	5
8	2	6	L

$$\Rightarrow L = ?$$

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

12.

			Sonuç (Result)
6	2	4	48
3	2	4	24
8	2	1	K
Sonuç (Result)	17	L	9

$$\Rightarrow K - L = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10



YANITLAR / ANSWERS

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

1.

	9	5	5	7
	7	6	3	12
	8	5	10	5
Sonuç (Result)	12	8	?	12

- A) 6 B) 7 C) 8 D) 9 E) 10

4.

	12	21	33	12
	42	11	34	15
	17	27	12	x
Sonuç (Result)				

 $\Rightarrow x = ?$

- A) 5 B) 10 C) 15 D) 20 E) 25

2.

3	4	18	5
4	3	2	21
4	2	3	21
6	?	6	15

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

5	8	2	20
3	4	6	2
4	8	4	y
3	z	12	2

 $\Rightarrow y + z = ?$

- A) 16 B) 15 C) 14 D) 13 E) 12

3.

16	8	21
44	25	33
34	14	12
36	A	23

 $\Rightarrow A = ?$

- A) 24 B) 18 C) 12 D) 6 E) 0

6.

6	8	10	12
14	4	8	13
10	12	20	21
4	2	24	K

 $\Rightarrow K = ?$

- A) 11 B) 12 C) 13 D) 14 E) 15

7.

5	2	1	24
6	7	2	45
3	8	4	?
2	1	8	33

- A) 41 B) 42 C) 43 D) 44 E) 45

8.

6	8	12	13
7	2	6	4
8	5	8	9
5	5	10	x

 $\Rightarrow x = ?$

- A) 8 B) 6 C) 4 D) 2 E) 0

9.

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

- A) 8 B) 6 C) 4 D) 2 E) 0

10.

2	3	26	10	11
5	6	26	6	9
4	3	K	1	5
1	7	21	6	7
8	2	18	3	5

 $\Rightarrow K = ?$

- A) 12 B) 13 C) 14 D) 15 E) 16

11.

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

 $\Rightarrow L = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

12.

6	4	8	3
2	3	2	3
3	6	6	2
6	4	4	M

 $\Rightarrow M = ?$

- A) 7 B) 6 C) 5 D) 4 E) 3



YANITLAR / ANSWERS

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

BÖLÜM 7 CHAPTER

SAYILAR NUMBERS

Bölüm / Chapter 7

Sayılar Toplama / Addition in Numbers

Test 1

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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} K \\ + 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 4 \\ - L \\ \hline K \end{array} \quad \begin{array}{r} KL \\ + LK \\ \hline MM \end{array} \Rightarrow M = ?$$

A) 4 B) 5 C) 6 D) 7 E) 8

2.

$$\begin{array}{r} K \\ L \\ + M \\ \hline 13 \end{array} \quad \begin{array}{r} L \\ + M \\ \hline 7 \end{array} \quad \begin{array}{r} K \\ L \\ + L \\ \hline 10 \end{array} \Rightarrow M = ?$$

A) 1 B) 2 C) 3 D) 4 E) 5

3.

$$\begin{array}{r} A8C \\ + AC \\ \hline 31A \end{array} \Rightarrow C = ?$$

A) 3 B) 4 C) 5 D) 6 E) 7

4.

$$\begin{array}{r} ab \\ ab \\ ba \\ + ba \\ \hline 198 \end{array} \Rightarrow a + b = ?$$

A) 8 B) 9 C) 10 D) 11 E) 12

5.

$$\begin{array}{r} ab \\ bc \\ + ca \\ \hline 165 \end{array} \Rightarrow a + b + c = ?$$

A) 11 B) 12 C) 13 D) 14 E) 15

6.

$$\begin{array}{r} KL \\ KK \\ LK \\ + LL \\ \hline 154 \end{array} \Rightarrow K + L = ?$$

A) 5 B) 6 C) 7 D) 8 E) 9

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7.
$$\begin{array}{r} 124 \\ + AB \\ \hline C80 \end{array} \Rightarrow A + B - C = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

8.
$$\begin{array}{r} FBC \\ + DAE \\ \hline 777 \end{array} \Rightarrow \frac{A + E + B + C}{F + D} = ?$$

- A) 2 B) 3 C) 5 D) 6 E) 9

9.
$$\begin{array}{r} 4AB \\ + AB4 \\ \hline 5L6 \end{array} \Rightarrow L = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

10.
$$\begin{array}{r} CA2 \\ + 2BC \\ \hline 1201 \end{array} \Rightarrow A + B + C = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

11.
$$\begin{array}{r} 2KL \\ + LK8 \\ \hline M11 \end{array} \Rightarrow K + L + M = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

12.
$$\begin{array}{r} KL \\ LK \\ KK \\ + LL \\ \hline 154 \end{array} \quad K - L = 1 \Rightarrow K = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5



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1	A	3	D	5	E	7	C	9	C	11	A
2	C	4	B	6	C	8	A	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} ABC \\ + KLM \\ \hline 896 \end{array} \quad C+M > 10 \Rightarrow A+B+C+M+L+K=?$$

- A) 31 B) 32 C) 33 D) 34 E) 35

2.

$$\begin{array}{r} ABC \\ BCA \\ CAB \\ BAC \\ ACB \\ + CBA \\ \hline 1776 \end{array} \quad \begin{array}{l} 4 \cdot C = A \\ 3 \cdot C = B \end{array} \Rightarrow A+B-C=?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

3.

$$\begin{array}{r} D \\ + A \\ \hline 12 \end{array} \quad \begin{array}{r} C \\ + B \\ \hline 8 \end{array} \quad \begin{array}{r} E \\ + M \\ \hline 11 \end{array} \Rightarrow \begin{array}{r} EDC \\ + MAB \\ \hline ???? \end{array}$$

- A) 1228 B) 1418 C) 1227
D) 1226 E) 1328

4.

$$\begin{array}{r} KM \\ LK \\ ML \\ MK \\ KL \\ + LM \\ \hline 198 \end{array} \quad \begin{array}{l} L = M + 1 \\ M = K + 1 \end{array} \Rightarrow M + L = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

5.

$$\begin{array}{r} KL \\ KL \\ + LK \\ \hline 120 \end{array} \Rightarrow 3K - 2L = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

6.

$$\begin{array}{r} 4KL \\ + LK \\ \hline 54M \end{array} \Rightarrow K + L + M = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

$$\begin{array}{r} \text{A 6 B C} \\ + \text{B 1 C B} \\ \hline 12 \text{ C 6 5} \end{array} \Rightarrow \text{A} = ?$$

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

$$\begin{array}{r} 3 \text{ M T 5} \\ + \text{E Y S} \\ \hline \text{T T 1 2} \end{array} \Rightarrow \text{S} + \text{T} + \text{Y} = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

$$\begin{array}{r} \text{KL} \\ \text{LM} \\ + \text{MN} \\ \hline 1 \text{ MN} \end{array} \quad \begin{array}{r} \text{LK} \\ + \text{ML} \\ \hline \text{???} \end{array}$$

- A) 107 B) 108 C) 109 D) 110 E) 111

$$\begin{array}{r} \text{K L M N} \\ \text{L M N K} \\ \text{M N K L} \\ + \text{N K L M} \\ \hline \text{R 8 8 8 6} \end{array} \Rightarrow \text{R} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r} 2 \text{ K L} \\ \text{K 5 3} \\ + \text{L K K} \\ \hline 1 \text{ K K K} \end{array} \Rightarrow \text{K} + \text{L} = ?$$

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

$$\begin{array}{r} \text{A B B} \\ + \text{A 0 A} \\ \hline \text{C 0 0} \end{array} \Rightarrow \text{C} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5



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1	B	3	A	5	D	7	D	9	C	11	C
2	B	4	C	6	D	8	E	10	B	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} \text{M Y M E} \\ + \text{S S M S} \\ \hline 7 \text{ S O 3} \end{array} \Rightarrow \text{E} = ?$$

- A) 7 B) 6 C) 4 D) 2 E) 1

$$\begin{array}{r} \text{A B} \\ \text{B A} \\ \text{B A} \\ \text{B B} \\ \text{A B} \\ + \text{A A} \\ \hline 2 \text{ 3 1} \end{array} \quad \text{A} - \text{B} = 3 \Rightarrow 4\text{A} - 3\text{B} = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

$$\begin{array}{r} \text{a b c} \\ \text{b c a} \\ + \text{c a b} \\ \hline 2 \text{ 6 6 4} \end{array} \quad \text{a} < \text{b} < \text{c} \Rightarrow \text{a} = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} \text{K K K} \\ + \text{K K K} \\ \hline \text{M M M} \end{array} + \begin{array}{r} \text{M M M} \\ + \text{M M M} \\ \hline \text{N N N} \end{array} + \begin{array}{r} \text{N N N} \\ + \text{N N N} \\ \hline \text{R R R} \end{array} + \begin{array}{r} \text{R R} \\ + \text{T T} \\ \hline \text{K M K} \end{array} \Rightarrow \text{T} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r} \text{K} \\ + \text{L} \\ \hline 11 \end{array} + \begin{array}{r} \text{K} \\ + \text{M} \\ \hline 15 \end{array} + \begin{array}{r} \text{M} \\ + \text{L} \\ \hline 12 \end{array} \Rightarrow \text{K} = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} \text{K K} \\ \text{L O} \\ + \text{M M} \\ \hline 140 \end{array} + \begin{array}{r} \text{K K} \\ \text{L} \\ + \text{L} \\ \hline 28 \end{array} \Rightarrow \text{M} = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

7.
$$\begin{array}{r} \text{FATİH} \\ + \text{HİTAF} \\ \hline 66666 \end{array} \Rightarrow \text{F} \cdot \text{A} \cdot \text{T} \cdot \text{İ} \cdot \text{H} = ?$$
- A) 150 B) 140 C) 130 D) 120 E) 110

8.
$$\begin{array}{r} \text{FF} \\ \text{FA} \\ \text{AF} \\ + \text{AA} \\ \hline 88 \end{array} \Rightarrow \text{F} > \text{A} \Rightarrow \text{F} - \text{A} = ?$$
- A) $\text{AA} - \text{F}$ B) $\text{FA} - \text{AF}$ C) $\text{FF} - \text{AA}$
D) $\text{FF} - \text{A}$ E) $\text{FF} - \text{FA}$

9.
$$\begin{array}{r} \text{FA} \\ \text{AT} \\ + \text{TF} \\ \hline 176 \end{array} \quad \begin{array}{r} \text{AA} \\ \text{FF} \\ + \text{FF} \\ \hline 121 \end{array} \Rightarrow \text{T} = ?$$
- A) 4 B) 5 C) 6 D) 7 E) 8

10.
$$\begin{array}{r} \text{KL4} \\ + \text{M7} \\ \hline \text{L2K} \end{array} \Rightarrow \text{M} = ?$$
- A) 1 B) 2 C) 5 D) 8 E) 9

11.
$$\begin{array}{r} \text{KKK} \\ + \text{LL} \\ \hline \text{L21} \end{array} \Rightarrow \text{K} \times \text{L} = ?$$
- A) 10 B) 20 C) 30 D) 40 E) 50

12.
$$\begin{array}{r} \text{KLM4} \\ + \text{KLM} \\ \hline \text{KM69} \end{array} \Rightarrow \text{M} = ?$$
- A) 3 B) 5 C) 6 D) 8 E) 9



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1	D	3	D	5	D	7	D	9	B	11	C
2	C	4	C	6	B	8	E	10	E	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} abc \\ - cba \\ \hline xyz \end{array} \Rightarrow y = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

2.
$$\begin{array}{r} 6KKL \\ - K L K K \\ \hline M90M \end{array} \Rightarrow M = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3.
$$\begin{array}{r} 8B6 \\ - A21 \\ \hline ACB \end{array} \Rightarrow A - B = ?$$

- A) 12 B) 15 C) 16 D) 20 E) 24

4.
$$\begin{array}{r} 7AB \\ - BA7 \\ \hline \bullet x \bullet \end{array} \Rightarrow x = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

5.
$$\begin{array}{r} 105B \\ - DC6 \\ \hline 236 \end{array} \Rightarrow D + B + C = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

6.
$$\begin{array}{r} AB7 \\ - 436 \\ \hline CAB \end{array} \Rightarrow C = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

7.

$$\begin{array}{r} AB66 \\ - CA1B \\ \hline CAAB \end{array} \Rightarrow C + A = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

8.

$$\begin{array}{r} AB8 \\ - 5AB \\ \hline 111 \end{array} \Rightarrow A \times B = ?$$

- A) 36 B) 40 C) 42 D) 45 E) 54

9.

$$\frac{A}{B} - \frac{C}{D} = \frac{B}{3} \Rightarrow A - 3 \cdot D = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

10.

$$\begin{array}{r} K \\ - R \\ \hline M \end{array} \quad \begin{array}{r} M \\ - R \\ \hline N \end{array} \quad R^2 = N \Rightarrow K - M + N = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

11.

$$\begin{array}{r} K \\ - 1 \\ \hline L \end{array} \quad \begin{array}{r} L \\ - 2 \\ \hline M \end{array} \quad \begin{array}{r} M \\ - 3 \\ \hline N \end{array} \quad \begin{array}{r} N \\ - 2 \\ \hline T \end{array} \Rightarrow \frac{KLMN}{TKMR}$$

$$\Rightarrow R = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

12.

$$\begin{array}{r} KLM \\ - LMK \\ \hline 108 \end{array} \Rightarrow \begin{array}{r} KK \\ - LM \\ \hline ?? \end{array}$$

- A) 12 B) 13 C) 14 D) 15 E) 16



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1	E	3	D	5	B	7	C	9	E	11	D
2	A	4	E	6	A	8	C	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} 77K \\ -KK7 \\ \hline 10M \end{array} \Rightarrow K + M = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

2.
$$\begin{array}{r} MKM \\ -5MK \\ \hline 109 \end{array} \Rightarrow K - M = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3.
$$\begin{array}{r} AB \\ -BA \\ \hline C5 \end{array} \Rightarrow C = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

4.
$$\begin{array}{r} K79 \\ -6LM \\ \hline L56 \end{array} \Rightarrow K + L + M = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

5.
$$\begin{array}{r} F3A \\ -1FT \\ \hline A8T \end{array} \Rightarrow T = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

6.
$$\begin{array}{r} K3L \\ -4K9 \\ \hline 1KM \end{array} \quad \begin{array}{r} L \\ -K \\ \hline 1 \end{array} \Rightarrow M = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

7.
$$\begin{array}{r} K K K K \\ - L L L \\ \hline 5 M M 9 \end{array} \quad \begin{array}{r} L L \\ - K K \\ \hline 11 \end{array} \Rightarrow M = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

8.
$$\begin{array}{r} 8 K 3 L \\ - L 2 5 4 \\ \hline 6 3 M 8 \end{array} \Rightarrow K + L + M = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

9.
$$\begin{array}{r} 7 K 3 2 L 4 \\ - M 2 L 5 3 M \\ \hline L 3 L M 7 8 \end{array} \Rightarrow K = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.
$$\begin{array}{r} K L \\ - L K \\ \hline 1 8 \end{array} \quad \begin{array}{r} M M \\ - K K \\ \hline 5 5 \end{array} \Rightarrow \begin{array}{r} M \\ - L \\ \hline ? \end{array}$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.
$$\begin{array}{r} K \\ - M \\ \hline L \end{array} \quad 2M = L \Rightarrow L = ?$$

- A) K/3 B) 2K/3 C) K/4 D) 3K/4 E) K/5

12.
$$\begin{array}{r} A 0 1 \\ - 5 B C \\ \hline 3 3 4 \end{array} \Rightarrow A + B + C = ?$$

- A) 20 B) 21 C) 22 D) 23 E) 24



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

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In the operations which are given in the following questions, each letter stands for a different numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} 641 \\ - 1A3 \\ \hline 4BB \end{array} \Rightarrow A + B = ?$$

- A) 15 B) 14 C) 13 D) 12 E) 11

2.
$$\begin{array}{r} 7B3 \\ - 3CA \\ \hline 387 \end{array} \Rightarrow B - C + A = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

3.
$$\begin{array}{r} ABC \\ - CBA \\ \hline DE6 \end{array} \Rightarrow D + E = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

4.
$$\begin{array}{r} KL7 \\ - LK8 \\ \hline M4 \end{array} \Rightarrow M = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

5.
$$\begin{array}{r} KLM \\ - MLK \\ \hline ABC \end{array} \Rightarrow \frac{A+C}{B} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.
$$\begin{array}{r} K \\ - L \\ \hline M \end{array} \Rightarrow K + L + M = ?$$

- A) $2 \cdot M$ B) $2 \cdot L$ C) $2 \cdot K$
D) $3 \cdot M$ E) $3 \cdot K$

7.
$$\begin{array}{r} 584A \\ - A95B \\ \hline 1891 \end{array} \Rightarrow A + B = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

8.
$$\begin{array}{r} 9A5 \\ - 6B9 \\ \hline A76 \end{array} \Rightarrow B = ?$$

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

9.
$$\begin{array}{r} 641 \\ - 1A3 \\ \hline 4BB \end{array} \Rightarrow A + B = ?$$

- A) 15 B) 14 C) 13 D) 12 E) 11

10.
$$\begin{array}{r} K12L \\ - L21K \\ \hline 1908 \end{array} \quad \begin{array}{r} K21L \\ - L12K \\ \hline ???? \end{array}$$

- A) 1898 B) 2008 C) 2088
D) 2098 E) 2108

11.
$$\begin{array}{r} ABC \\ - C7 \\ \hline 368 \end{array} \Rightarrow A + B + C = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

12.
$$\begin{array}{r} 56A4 \\ - 2B76 \\ \hline 3308 \end{array} \Rightarrow A - B = ?$$

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



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1	C	3	E	5	A	7	A	9	C	11	A
2	A	4	B	6	C	8	C	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} \text{KL} \\ - \text{LK} \\ \hline 27 \end{array} \quad \begin{array}{r} \text{MN} \\ - \text{NM} \\ \hline 36 \end{array} \quad \begin{array}{r} \text{NN} \\ + \text{LL} \\ \hline 99 \end{array} \Rightarrow K + M = ?$$

A) 14 B) 15 C) 16 D) 17 E) 18

2. $L > 1$

$$\begin{array}{r} \text{KL} \\ + \text{LK} \\ \hline \text{MM} \end{array} \quad \begin{array}{r} \text{K} \\ - \text{L} \\ \hline 2 \end{array} \quad \begin{array}{r} \text{M} \\ + 3 \\ \hline \text{N} \end{array} \Rightarrow N \times L = ?$$

A) 10 B) 12 C) 14 D) 16 E) 18

3.
$$\begin{array}{r} \text{KK} \\ + 22 \\ \hline \text{LL} \end{array} \quad \begin{array}{r} \text{LL} \\ - 44 \\ \hline \text{MM} \end{array} \quad \begin{array}{r} \text{MM} \\ + 11 \\ \hline \text{NN} \end{array} \Rightarrow \begin{array}{r} \text{KL MN} \\ - \text{NM LK} \\ \hline \text{? ? ? ?} \end{array}$$

A) 1359 B) 1367 C) 1426 D) 1482 E) 1527

4.
$$\begin{array}{r} \text{KLM} \\ - \text{MLK} \\ \hline \text{N} \end{array} \quad \begin{array}{r} \text{N} \\ + \text{T} \\ \hline \text{RR} \end{array} \Rightarrow T = ?$$

A) 1 B) 2 C) 3 D) 4 E) 5

5.
$$\begin{array}{r} \text{XYY} \\ + \text{CBC} \\ \hline 386 \end{array} \quad \begin{array}{r} \text{XYY} \\ - \text{CBC} \\ \hline 124 \end{array} \Rightarrow \text{XYY} = ?$$

A) 199 B) 233 C) 255 D) 311 E) 344

6.
$$\begin{array}{r} \text{KL} \\ + \text{LK} \\ \hline 99 \end{array} \quad \begin{array}{r} \text{KL} \\ - \text{LK} \\ \hline 27 \end{array} \Rightarrow 2K + L = ?$$

A) 15 B) 18 C) 21 D) 24 E) 27

7.
$$\begin{array}{r} KL \\ + LK \\ \hline 110 \end{array} \quad \begin{array}{r} KL \\ - LK \\ \hline 18 \end{array} \Rightarrow K \cdot L = ?$$

- A) 18 B) 21 C) 24 D) 27 E) 30

8.
$$\begin{array}{r} K4M8 \\ + 3L5N \\ \hline 6393 \end{array} \quad \begin{array}{r} LMK \\ - NTR \\ \hline MR4 \end{array} \Rightarrow L + T = ?$$

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

9.
$$\begin{array}{r} KLM \\ - MLK \\ \hline 396 \end{array} \quad \begin{array}{r} KK \\ + MM \\ \hline 253 \end{array} \Rightarrow M = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.
$$\begin{array}{r} KL \\ - LK \\ \hline 72 \end{array} \Rightarrow \begin{array}{r} KK \\ + LL \\ \hline ? \end{array}$$

- A) 88 B) 99 C) 100 D) 110 E) 111

11.
$$\begin{array}{r} F \\ + F \\ \hline A \end{array} \quad \begin{array}{r} A \\ + A \\ \hline T \end{array} \quad \begin{array}{r} T \\ + T \\ \hline I \end{array} \quad \begin{array}{r} H \\ - I \\ \hline F \end{array} \Rightarrow T + F = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

12.
$$\begin{array}{r} KLM \\ + 432 \\ \hline 621 \end{array} \quad \begin{array}{r} 895 \\ - RNT \\ \hline 547 \end{array} \Rightarrow K + N = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5



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1	C	3	A	5	C	7	C	9	B	11	B
2	E	4	B	6	A	8	E	10	D	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} FA \\ + AA \\ \hline 162 \end{array} \quad \begin{array}{r} F \\ - A \\ \hline 3 \end{array} \Rightarrow F \cdot A = ?$$

A) 45 B) 54 C) 64 D) 89 E) 91

2.
$$\begin{array}{r} FF \\ + AA \\ \hline 198 \end{array} \quad \begin{array}{r} AT \\ - TA \\ \hline 45 \end{array} \Rightarrow \begin{array}{r} F \\ T \\ + T \\ \hline ? \end{array}$$

A) 10 B) 11 C) 12 D) 13 E) 14

3.
$$\begin{array}{r} KKK \\ + LLL \\ \hline 333 \end{array} \quad \begin{array}{r} MMM \\ - KKK \\ \hline 444 \end{array} \quad \begin{array}{r} MMM \\ - LLL \\ \hline 333 \end{array} \Rightarrow M = ?$$

A) 3 B) 4 C) 5 D) 6 E) 7

4.
$$\begin{array}{r} 6KL \\ - M47 \\ \hline 528 \end{array} \quad \begin{array}{r} ML6 \\ + K2L \\ \hline NNM \end{array} \Rightarrow N + K + M = ?$$

A) 15 B) 16 C) 17 D) 18 E) 19

5.
$$\begin{array}{r} KLL \\ + LKK \\ \hline MNNM \end{array} \quad \begin{array}{r} N \\ - M \\ \hline M \end{array} \Rightarrow N = ?$$

A) 1 B) 2 C) 3 D) 4 E) 5

6.
$$\begin{array}{r} KK \\ LL \\ + MM \\ \hline 187 \end{array} \quad \begin{array}{r} ML \\ - LM \\ \hline 27 \end{array} \Rightarrow \begin{array}{r} K \\ M \\ + M \\ \hline ? \end{array}$$

A) 16 B) 17 C) 18 D) 19 E) 20

$$7. \begin{array}{r} \text{K L M} \\ - \text{M L K} \\ \hline 3 \ 9 \ 6 \end{array} \quad \begin{array}{r} \text{K M K M} \\ + \text{M K M K} \\ \hline 1 \ 1 \ 1 \ 1 \ 0 \end{array} \Rightarrow \text{K} \cdot \text{M} = ?$$

- A) 12 B) 15 C) 18 D) 21 E) 24

$$8. \begin{array}{r} \text{K} \\ + 1 \\ \hline \text{L} \end{array} \quad \begin{array}{r} \text{L} \\ + 2 \\ \hline \text{M} \end{array} \quad \begin{array}{r} \text{M} \\ + 3 \\ \hline \text{N} \end{array} \quad \begin{array}{r} \text{N} \\ - 4 \\ \hline \text{R} \end{array} \Rightarrow \begin{array}{r} \text{R N K} \\ - \text{L M N} \\ \hline ? \ ? \ ? \end{array}$$

- A) 123 B) 124 C) 125 D) 126 E) 127

$$9. \begin{array}{r} \text{K} \\ + \text{L} \\ \hline 6 \end{array} \quad \begin{array}{r} \text{K} \\ - \text{L} \\ \hline \text{M} \end{array} \quad \begin{array}{r} \text{K} \\ + \text{M} \\ \hline 9 \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

$$10. \begin{array}{r} \text{K} \\ + \text{M} \\ \hline \text{T} \end{array} \quad \begin{array}{r} \text{T} \\ - \text{L} \\ \hline 5 \end{array} \Rightarrow \text{K} - \text{L} + \text{M} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$11. \begin{array}{r} \text{K L M} \\ + \text{M N R} \\ \hline 9 \ 5 \ 6 \end{array} \quad \begin{array}{r} \text{K L M} \\ - \text{M N R} \\ \hline 2 \ 2 \ 8 \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

$$12. \begin{array}{r} \text{K L} \\ \text{L K} \\ \text{K K} \\ + \text{L L} \\ \hline 2 \ 4 \ 2 \end{array} \quad \begin{array}{r} \text{K L} \\ - \text{L K} \\ \hline 4 \ 5 \end{array} \Rightarrow \text{K} \cdot \text{L} = ?$$

- A) 21 B) 24 C) 26 D) 27 E) 28



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1	B	3	C	5	B	7	D	9	D	11	C
2	D	4	B	6	E	8	B	10	E	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} K L K \\ + 4 K 5 \\ \hline M M 7 \end{array} \Rightarrow K + L + M = ?$$

- A) 12 B) 11 C) 10 D) 9 E) 8

2.
$$\begin{array}{r} K L K \\ + L M K \\ \hline 1 1 8 6 \end{array} \Rightarrow K - L + M = ?$$

- A) 3 B) 6 C) 9 D) 12 E) 15

3.
$$\begin{array}{r} A 4 3 \\ + B B B \\ \hline 6 \cdot 5 \end{array} \Rightarrow A = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

4.
$$\begin{array}{r} 9 N 5 6 \\ - M 8 K L \\ \hline 5 0 8 3 \end{array} \Rightarrow M + K + L = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

5.
$$\begin{array}{r} K K L \\ + L K K \\ \hline 1 M 1 2 \end{array} \Rightarrow M = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

6.
$$\begin{array}{r} K L M \\ - 2 3 4 \\ \hline 5 8 3 \end{array} \Rightarrow K + L + M = ?$$

- A) 10 B) 12 C) 14 D) 16 E) 18

7.
$$\begin{array}{r} K L M \\ - M L K \\ \hline T R 7 \end{array} \Rightarrow T + R = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

8.
$$\begin{array}{r} K L L \\ - L K K \\ \hline N M 6 \end{array} \Rightarrow N + M = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

9.
$$\begin{array}{r} K L M \\ + 3 K L \\ + M 4 7 \\ \hline 1 1 6 7 \end{array} \Rightarrow K + L + M = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

10.
$$\begin{array}{r} K L M L \\ - M O L M \\ \hline 5 3 0 9 \end{array} \Rightarrow K + L + M = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

11.
$$\begin{array}{r} 7 K L \\ - K L K \\ \hline 1 9 1 \end{array} \Rightarrow K + L = ?$$

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

12.
$$\begin{array}{r} A A 4 \\ + 6 A B \\ \hline 8 4 8 \end{array} \Rightarrow A + B = ?$$

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



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

Aşağıdaki sorularda verilen işlemlerdeki harfler sıfır veya bir-birine 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.

$$\begin{array}{r} A7B \\ - 2BA \\ \hline CAC \end{array}$$

$$A + C = 10 \Rightarrow A \cdot B \cdot C = ?$$

- A) 0 B) 6 C) 12 D) 15 E) 18

2.

$$\begin{array}{r} 5AB \\ - AB6 \\ \hline 1?7 \end{array}$$

- A) 0 B) 1 C) 2 D) 8 E) 9

3.

$$\begin{array}{r} 74A \\ - 6A5 \\ \hline B9B \end{array}$$

$$\Rightarrow A + B = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

4.

$$\begin{array}{r} A9B \\ - B \cdot A \\ \hline 46M \end{array}$$

$$\Rightarrow M = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

5.

$$\begin{array}{r} 5B9A \\ - A8B? \\ \hline 16BB \end{array}$$

- A) 5 B) 6 C) 7 D) 8 E) 9

6.

$$\begin{array}{r} ABC6 \\ - CA8B \\ \hline 1BD2 \end{array}$$

$$\Rightarrow A + B + C + D = ?$$

- A) 26 B) 27 C) 28 D) 29 E) 30

7. $A > C$

$$\begin{array}{r} 3BA \\ + DAC \\ \hline 6B1 \end{array} \Rightarrow A + D + C = ?$$

- A) 14 B) 17 C) 13 D) 16 E) 15

8.

$$\begin{array}{r} DA7 \\ + 54B \\ \hline 1A05 \end{array} \Rightarrow A + D - B = ?$$

- A) 3 B) 5 C) 6 D) 7 E) 8

9.

$$\begin{array}{r} MCMA \\ + N9BN \\ \hline 16CA1 \end{array} \Rightarrow M - A = ?$$

- A) 2 B) 4 C) 5 D) 6 E) 7

10.

$$\begin{array}{r} NM3M \\ + 24A1 \\ \hline 1AA3N \end{array} \Rightarrow M + N + A = ?$$

- A) 14 B) 13 C) 12 D) 11 E) 10

11.

$$\begin{array}{r} P P 4 B 8 \\ + M C M A C \\ \hline 13 A A A A \end{array} \Rightarrow P + M + C = ?$$

- A) 14 B) 17 C) 20 D) 23 E) 26

12.

$$\begin{array}{r} 7ABC \\ + BC9A \\ \hline 13DB0 \end{array} \Rightarrow A + B + C + D = ?$$

- A) 17 B) 16 C) 15 D) 14 E) 13



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

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.
$$\begin{array}{r} K \\ + 2 \\ \hline L \end{array} + \begin{array}{r} L \\ + 1 \\ \hline N \end{array} + \begin{array}{r} K \\ + M \\ \hline V \end{array} \Rightarrow \min(NKM - LNK) = ?$$

A) 41 B) 60 C) 61 D) 70 E) 71

2.
$$\begin{array}{r} xy \\ xy \\ xy \\ + xy \\ \hline 2x4 \end{array} \Rightarrow x + y = ?$$

A) 7 B) 11 C) 12 D) 9 E) 10

3.
$$\begin{array}{r} DED \\ + E79 \\ \hline 1345 \end{array} \Rightarrow DEDE = ?$$

A) 1313 B) 2525 C) 6666 D) 4444 E) 6464

4.
$$\begin{array}{r} 530 \\ \times KLM \\ \hline 2120 \\ \cdot \cdot 9 \cdot \\ + 2 \cdot 2 \cdot \\ \hline \cdot 3 \cdot 020 \end{array} \Rightarrow K + L + M = ?$$

A) 8 B) 9 C) 10 D) 11 E) 12

5.
$$\begin{array}{r} k \\ + \frac{1}{n} \\ \hline \frac{n}{y} \end{array} - \begin{array}{r} n \\ - \frac{k}{y} \\ \hline \frac{x}{8} \end{array} \Rightarrow x = ?$$

A) 9 B) 6 C) 5 D) 4 E) 3

6.
$$\begin{array}{r} ab \\ + cd \\ \hline 91 \end{array} - \begin{array}{r} ab \\ - cd \\ \hline 7 \end{array} \Rightarrow a \times b = ?$$

A) 48 B) 36 C) 64 D) 72 E) 76

7.
$$\begin{array}{r} K L M \\ + K M L \\ \hline 1943 \end{array} \Rightarrow \max(K - L) = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

8.
$$\begin{array}{r} A \\ + B \\ \hline C D \end{array} \quad \begin{array}{r} C \\ + A \\ \hline 7 \end{array} \Rightarrow \min(B) = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

9.
$$\begin{array}{r} K L M \\ L M K \\ + M K L \\ \hline 2442 \end{array} \Rightarrow \min(K) = ?$$

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

10.
$$\begin{array}{r} 572 \\ + M4N \\ \hline 92K \end{array} \Rightarrow \min(M + K) = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.
$$\begin{array}{r} A \\ + B \\ \hline C C \end{array} \quad \begin{array}{r} A \\ - B \\ \hline D \end{array} \Rightarrow \min(C + D) = ?$$

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

12.
$$\begin{array}{r} A B \\ - C \\ \hline K \end{array} \Rightarrow \max(B) = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9



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1	D	3	C	5	A	7	E	9	C	11	A
2	C	4	D	6	B	8	B	10	A	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} \text{AB} \\ \text{AB} \\ \times \text{K} \\ \hline \text{1L} \\ \text{AB} \\ \text{AB} \\ + \text{AB} \\ \hline \text{1K0} \end{array} \Rightarrow \text{A} + \text{B} = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} 36\text{K} \\ \times \text{KL} \\ \hline 730 \\ + 1\text{LKL} \\ \hline 1\text{L}9\text{L0} \end{array} \Rightarrow \text{L} + \text{K} = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

$$\begin{array}{r} \text{M}44 \\ \times 3\text{M} \\ \hline 4\text{LL} \\ + 73\text{M} \\ \hline 780\text{L} \end{array} \Rightarrow \text{L} = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} \bullet 66 \\ \times 3\bullet \\ \hline 1\bullet 6\bullet \\ + 139\bullet \\ \hline 15\bullet\bullet\bullet \end{array} \Rightarrow \bullet + \bullet = ?$$

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

$$\begin{array}{r} \bullet\bullet 6 \\ \times \bullet\bullet \\ \hline 65\bullet \\ + 978 \\ \hline 104\bullet\bullet \end{array} \Rightarrow \bullet + \bullet = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} zcz \\ \times a7 \\ \hline k6mz \\ + 5c5 \\ \hline 8925 \end{array} \Rightarrow z + c + a = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

7.

$$\begin{array}{r} \bullet 3 \bullet \\ \times 3 \blacktriangle \\ \hline \blacksquare 6 \blacksquare \\ + 130 \blacktriangle \\ \hline 13 \blacksquare \blacksquare \blacksquare \end{array} \Rightarrow \blacktriangle + \blacksquare + \bullet = ?$$

- A) 9 B) 10 C) 13 D) 14 E) 17

8.

$$\begin{array}{r} \times 66 \\ \times \bullet \blacksquare \\ \hline + \blacktriangle \bullet \blacksquare \\ + \blacktriangle 98 \\ \hline \blacksquare \blacktriangle \blacktriangle \blacksquare \end{array} \Rightarrow \blacksquare = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

$$\begin{array}{r} \times \bullet \blacksquare \\ \times \blacksquare \blacktriangle \\ \hline + 21 \blacksquare \\ \hline 230 \blacktriangle \end{array} \Rightarrow \blacktriangle + \blacksquare = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

10.

$$\begin{array}{r} \bullet \blacksquare \\ \times \blacksquare \bullet \\ \hline 102 \\ + 136 \\ \hline 1 \blacksquare 62 \end{array} \Rightarrow \bullet \times \blacksquare = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

11.

$$\begin{array}{r} M2T \\ \times 3M \\ \hline 168M \\ + 126N \\ \hline TM3TM \end{array} \Rightarrow M + N + T = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

12.

$$\begin{array}{r} 56 \blacksquare \\ \times 34 \\ \hline \blacksquare \blacksquare 48 \\ + 1 \blacktriangle 8 \blacktriangle \\ \hline 1 T 108 \end{array} \Rightarrow T = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5



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1	D	3	D	5	A	7	D	9	D	11	C
2	C	4	D	6	A	8	B	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} KLL \\ \times LKK \\ \hline \cdot \cdot L \\ \cdot \cdot \cdot \\ + KRM9 \\ \hline KRZYTL \end{array} \Rightarrow Y+T+R=?$$

A) 12 B) 13 C) 14 D) 15 E) 16

$$\begin{array}{r} KLM \\ \times KL \\ \hline LN6 \\ + KL3 \\ \hline 1N76 \end{array} \Rightarrow M=?$$

A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r} K \\ \times L \\ \hline M \end{array} \quad \begin{array}{r} K \\ \times N \\ \hline R \end{array} \Rightarrow K+L+M+N+R=?$$

A) 19 B) 20 C) 21 D) 22 E) 23

$$\begin{array}{r} 4K \\ \times L \\ \hline \cdot \cdot \end{array} \quad \begin{array}{r} 4K \\ \times M \\ \hline \cdot \cdot \end{array} \Rightarrow \max(L+K)=?$$

A) 8 B) 9 C) 10 D) 11 E) 12

$$\begin{array}{r} KK \\ \times K \\ \hline LL \end{array} \quad \begin{array}{r} LL \\ \times K \\ \hline MM \end{array} \Rightarrow M=?$$

A) 9 B) 8 C) 7 D) 6 E) 5

$$\begin{array}{r} LL \\ \times L \\ \hline 99 \end{array} \quad \begin{array}{r} KE1 \\ - LRR \\ \hline LLL \end{array} \Rightarrow K+E+R=?$$

A) 14 B) 15 C) 16 D) 17 E) 18

7.

$$\begin{array}{r} K3L \\ \times LK \\ \hline M6K \\ + K31 \\ \hline 2NNK \end{array} \Rightarrow K + N + M + L = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

8.

$$\begin{array}{r} 2KK \\ \times LL \\ \hline 1LL2 \\ + 1LL2 \\ \hline 1M2M2 \end{array} \Rightarrow K = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

9.

$$\begin{array}{r} KL \\ \times LK \\ \hline N4K \\ + KL \\ \hline L4TK \end{array} \Rightarrow N = ?$$

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

10.

$$\begin{array}{r} KLM \\ \times K \\ \hline 40KM \end{array} \Rightarrow K - L + M = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

11.

$$\begin{array}{r} MLM \\ \times NM \\ \hline 1119 \\ + LTR \\ \hline PFLC \end{array} \Rightarrow F = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

12.

$$\begin{array}{r} . . . \\ \times 32 \\ \hline . . . \\ + 795 \\ \hline ? ? ? ? \end{array}$$

- A) 8400 B) 8440 C) 8444
D) 8480 E) 8484



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

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In the operations which are given in the following questions, each letter stands for a different numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} \text{KLM} \\ \times 43 \\ \hline 7 \cdot \cdot \\ + \cdot 84 \\ \hline 105\text{N}8 \end{array} \Rightarrow \text{K} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r} \text{K} \\ \times \text{L} \\ \hline \text{K} \end{array} \quad \begin{array}{r} \text{KL} \\ - 54 \\ \hline \text{LK} \end{array} \Rightarrow \text{K} + \text{L} = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} \text{K} \\ \times \text{K} \\ \hline \text{NK} \end{array} \quad \begin{array}{r} \text{L} \\ \times \text{L} \\ \hline \text{ML} \end{array} \Rightarrow \text{N} \cdot \text{M} = ?$$

- A) 6 B) 8 C) 10 D) 12 E) 14

$$\begin{array}{r} 6\text{KL} \\ \times \text{LK} \\ \hline \text{M}89\bullet \\ + \text{M}2\bullet4 \\ \hline \text{M}453\bullet \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} \text{LA}9 \\ \times \text{LA} \\ \hline 229\text{A} \\ + 18\text{T}6 \\ \hline \text{NOMA} \end{array} \Rightarrow \text{L} + \text{A} + \text{T} + \text{M} + \text{N} = ?$$

- A) 16 B) 18 C) 20 D) 22 E) 24

$$\begin{array}{r} 5\bullet2 \\ \times 3\blacksquare \\ \hline 22\blacksquare8 \\ + 1\bullet8\bullet\bullet \\ \hline 19\text{M}08 \end{array} \Rightarrow \text{M} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

7.

$$\begin{array}{r} 56 \\ \times \quad \bullet \\ \hline \blacksquare \blacksquare \bullet \end{array} \Rightarrow \bullet + \blacksquare = ?$$

- A) 10 B) 12 C) 14 D) 16 E) 18

8.

$$\begin{array}{r} K4M \\ + 3LL \\ \hline 914 \end{array} \quad \begin{array}{r} LK \\ \times M \\ \hline KN0 \end{array} \Rightarrow N = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

$$\begin{array}{r} \bullet \blacksquare \\ \times 8 \\ \hline 19\bullet \end{array} \quad \begin{array}{r} 1\blacktriangle \\ \times \blacksquare \\ \hline \blacktriangle \blacksquare \end{array} \Rightarrow \blacktriangle = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

10.

$$\begin{array}{r} AAB \\ \times A \\ \hline 3978 \end{array} \Rightarrow A + B = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

11.

$$\begin{array}{r} \cdot 26 \\ \times \cdot \cdot \\ \hline \cdot \cdot \cdot \\ + \cdot 0 \cdot \\ \hline KL70 \end{array} \Rightarrow K + L = ?$$

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

12.

$$\begin{array}{r} K \cdot \cdot L \\ \times 125 \\ \hline \cdot \cdot \cdot \cdot \\ 2450 \\ + \cdot \cdot \cdot \cdot \\ \hline \cdot \cdot \cdot \cdot \cdot \cdot \end{array} \Rightarrow K + L = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9



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1	B	3	A	5	C	7	B	9	D	11	C
2	E	4	C	6	A	8	B	10	D	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} \text{KLM} \overline{) 84} \cdot \text{L} \\ \underline{8\text{M}} \\ 84 \\ \underline{84} \\ 3 \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 4 B) 5 C) 6 D) 17 E) 18

$$\begin{array}{r} \text{KLN} \overline{) 2\text{K}} \\ \underline{2\text{K}} \\ \text{MM} 6 \\ \underline{\text{MM}} \\ \text{MT} \\ \text{M} \end{array} \Rightarrow \text{K} + \text{L} + \text{T} = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

$$\begin{array}{r} 5\text{KL} \overline{) 7} \\ \underline{3} \end{array} \Rightarrow \text{K} = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

$$\begin{array}{r} \text{KL} \overline{) \text{M}} \cdot \text{K} \\ \underline{\text{L}} \end{array} \Rightarrow \text{M} = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

$$\begin{array}{r} \text{MLM} \overline{) \text{LM}} \\ \underline{34} \\ \text{09M} \\ \underline{\text{R8}} \\ \text{026} \end{array} \Rightarrow \text{M} = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

$$\begin{array}{r} \text{KLMR} \overline{) \text{MM}} \\ \underline{\text{MM}} \\ \text{NMM} \\ \underline{\text{NN0}} \\ \text{0NMR} \\ \underline{\text{NN0}} \\ \text{00N6} \end{array} \Rightarrow \text{K} + \text{L} = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

7.

$$\begin{array}{r} \text{KKK} \overline{) \text{LL}} \\ \underline{\text{MM}} \\ 11\text{K} \\ \underline{110} \\ 5 \end{array} \Rightarrow \text{M} = ?$$

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

8.

$$\begin{array}{r} \text{KLMN} \overline{) \cdot \cdot} \\ \underline{\cdot \cdot \cdot} \\ \cdot \cdot \cdot \\ \underline{301} \\ 24 \end{array} \Rightarrow \text{K} + \text{L} + \text{M} + \text{N} = ?$$

- A) 18 B) 17 C) 16 D) 15 E) 14

9.

$$\begin{array}{r} 1\text{A}8 \overline{) \text{B}5} \\ \underline{\cdot \cdot \cdot} \\ 3 \end{array} \Rightarrow \text{A} = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

10.

$$\begin{array}{r} \cdot 2 \cdot \overline{) 7} \\ \underline{2 \cdot} \\ 4 \cdot \\ \underline{\cdot \cdot} \\ 1 \end{array} \Rightarrow \text{KL} = ?$$

- A) 42 B) 43 C) 45 D) 46 E) 47

11.

$$\begin{array}{r} 8\text{AB} \overline{) 2\text{C}} \\ \underline{\text{D}2} \\ 9\text{B} \\ \underline{9\text{B}} \\ 0 \end{array} \Rightarrow \text{B} = ?$$

- A) 2 B) 3 C) 4 D) 6 E) 8

12.

$$\begin{array}{r} 1\text{MMK} \overline{) 1\text{E}} \\ \underline{11\text{T}} \\ \text{LK} \\ \underline{\text{LK}} \\ 0 \end{array} \Rightarrow \text{M} + \text{K} + \text{E} = ?$$

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



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1	E	3	A	5	D	7	C	9	E	11	D
2	B	4	E	6	E	8	A	10	D	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$1. \begin{array}{r} 6KL \\ - \\ \hline 51 \end{array} \Rightarrow K+L=?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$2. \begin{array}{r} K \\ - 1 \\ \hline 4 \end{array} \quad \begin{array}{r} M \\ - 0 \\ \hline 2 \end{array} \Rightarrow \begin{array}{r} K \\ - ? \\ \hline \end{array}$$

- A) 4 B) 3 C) 2 D) 1 E) 0

$$3. \begin{array}{r} \Delta \square \square \\ - 4 \\ \hline 10 \end{array} \quad \begin{array}{r} \Delta \square \square \\ - 3 \\ \hline 5 \end{array} \Rightarrow \Delta + \square = ?$$

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

$$4. \begin{array}{r} 8A1 \\ - \\ \hline AA \end{array} \Rightarrow \sqrt{A}=?$$

- A) 3 B) 6 C) 9 D) 12 E) 15

$$5. \begin{array}{r} 4 \blacksquare \blacksquare \blacksquare \\ - 2 \blacksquare \blacksquare \\ \hline 11 \blacksquare \blacksquare \end{array} \quad \begin{array}{r} 2 \blacksquare \\ - 9 \bullet \\ \hline 1 \blacktriangle \end{array} \Rightarrow \blacksquare + \blacktriangle + \bullet = ?$$

- A) 12 B) 14 C) 16 D) 18 E) 20

$$6. \begin{array}{r} 6KL \\ - LK \\ \hline 10L \end{array} \quad \begin{array}{r} LK \\ - 10M \\ \hline 1 \end{array} \Rightarrow K+L+M=?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

7.

$$\begin{array}{r} \text{KLM} \overline{)18} \\ \underline{18} \quad \text{LK} \\ 3 \text{ M} \\ \underline{\text{P R}} \\ 1 \end{array} \Rightarrow \text{K} + \text{L} + \text{M} + \text{P} + \text{R} = ?$$

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

8.

$$\begin{array}{r} \text{x y z} \\ \text{x y z} \\ \text{x y z} \\ \text{x y z} \\ + \text{x y z} \\ \hline \text{K O L M} \end{array} \quad \begin{array}{r} \text{K O L M} \overline{)6} \\ \underline{342} \\ 4 \end{array} \Rightarrow \text{x} \cdot \text{y} \cdot \text{z} = ?$$

- A) 4 B) 8 C) 16 D) 20 E) 140

9.

$$\begin{array}{r} 345 \overline{)K6} \\ \underline{3L} \quad \text{LK} \\ L5 \\ \underline{K6} \\ M \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 5 B) 6 C) 9 D) 11 E) 12

10.

$$\begin{array}{r} \text{ABC} \overline{)43} \\ \underline{42} \\ 13 \end{array} \Rightarrow \text{A} + \text{B} + \text{C} = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

11.

$$\begin{array}{r} \star \bullet 4 \overline{) \blacksquare} \\ \underline{\star 6} \quad \blacksquare \blacktriangledown \\ 034 \\ \underline{28} \\ 6 \end{array} \Rightarrow \star + \bullet + \blacksquare + \blacktriangledown = ?$$

- A) 18 B) 19 C) 20 D) 21 E) 22

12.

$$\begin{array}{r} \text{KL24} \overline{)MN} \\ \underline{84} \quad 2\text{TH} \\ 132 \\ \underline{1N6} \\ R4 \\ \underline{M2} \\ NN \end{array} \Rightarrow \text{T} + \text{N} + \text{H} = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3



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1	C	3	B	5	C	7	C	9	E	11	D
2	D	4	C	6	A	8	D	10	B	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} \text{AGA} \\ 3 \overline{) 14} \end{array} \Rightarrow A = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} 4K5L \\ 7 \overline{) 4K} \end{array} \Rightarrow \max(L) = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} 1A8 \\ 3 \overline{) B5} \end{array} \Rightarrow A = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} 43K \\ 1K \overline{) 60} \end{array} \Rightarrow K = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} 4KK \\ 36 \overline{) 36} \\ L28 \\ LOK \\ 20 \end{array} \Rightarrow K + L = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} 8K7 \\ LM \overline{) 19} \\ 0 \end{array} \Rightarrow K + L + M = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

$$7. \begin{array}{r} \text{ML} \\ \text{MM} \overline{) 11} \\ 4 \end{array} \quad \begin{array}{r} \text{MM} \\ 3 \overline{) 10} \end{array} \Rightarrow L + M = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

$$8. \begin{array}{r} \text{KLL} \\ \text{KM0} \overline{) \text{LK}} \\ 34 \end{array} \Rightarrow M = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$9. \begin{array}{r} \text{KL} \\ \text{M} \overline{) \text{M}} \\ \text{N9} \\ \text{NT} \\ \text{N} \end{array} \Rightarrow K + L = ?$$

- A) 9 B) 11 C) 13 D) 15 E) 17

$$10. \begin{array}{r} 2 \text{KL} \\ \text{M} \overline{) 24} \\ 12 \end{array} \quad L > K \Rightarrow M = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

$$11. \begin{array}{r} 2 \text{KK} \\ \text{M} \overline{) 14} \\ 21 \end{array} \Rightarrow M = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$12. \begin{array}{r} \text{KLK} \\ \text{L} \overline{) \text{LK}} \\ 2 \end{array} \Rightarrow K + L = ?$$

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



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1	E	3	C	5	E	7	C	9	C	11	E
2	C	4	D	6	C	8	A	10	E	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} \text{1.} \quad \begin{array}{r} \text{ABC} \\ \times \text{A5} \\ \hline 117\cdot \\ + \cdot\cdot\cdot \\ \hline \text{P850} \end{array} \Rightarrow \text{P} = ? \end{array}$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} \text{2.} \quad \begin{array}{r} \text{KL} \\ \times 32 \\ \hline 144 \\ \text{ABCD} \end{array} \Rightarrow \text{ABCD} = ? \end{array}$$

- A) 1524 B) 1536 C) 1549
D) 1672 E) 1684

$$\begin{array}{r} \text{3.} \quad \begin{array}{r} \text{K3L} \\ \times 11 \\ \hline \cdot\cdot\cdot \\ + \cdot\cdot\cdot \\ \hline 257\text{L} \end{array} \Rightarrow \text{K} + \text{L} = ? \end{array}$$

- A) 6 B) 7 C) 8 D) 9 E) 10

$$\begin{array}{r} \text{4.} \quad \begin{array}{r} \text{ABA} \\ \times \text{BA} \\ \hline \cdot\cdot\cdot\cdot \\ + \cdot\cdot\cdot 2 \\ \hline 14756 \end{array} \Rightarrow \text{A} + \text{B} = ? \end{array}$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} \text{5.} \quad \begin{array}{r} 345 \\ \times \text{K2} \\ \hline \cdot\cdot\cdot \\ + \cdot\cdot\cdot \\ \hline 28290 \end{array} \Rightarrow \text{K} = ? \end{array}$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} \text{6.} \quad \begin{array}{r} \text{ababa} \mid \text{ab} \\ \hline \text{B} \\ \hline 3 \end{array} \begin{array}{l} \text{B} \geq 10 \\ \Rightarrow \text{B} + \text{a} = ? \end{array} \end{array}$$

- A) 104 B) 113 C) 114 D) 1013 E) 1040

$$\begin{array}{r} \text{M2M} \overline{) \text{S}} \\ \underline{\text{YE}} \text{SM} \\ \text{3M} \\ \underline{\text{3M}} \\ 0 \end{array} \Rightarrow \text{M} + \text{Y} + \text{S} + \text{E} = ?$$

- A) 21 B) 22 C) 23 D) 24 E) 25

$$\begin{array}{r} \text{ABABAB} \overline{) \text{AB}} \\ \underline{\hspace{2cm}} \text{K} \end{array} \Rightarrow \text{K} = ?$$

A) 101 B) 1001 C) 1011
D) 10001 E) 10101

$$\begin{array}{r} \text{KL} \\ \times \text{LK} \\ \hline \text{K2} \\ + \text{L4} \\ \hline \text{L52} \end{array} \Rightarrow \text{K} + \text{L} = ?$$

A) 3 B) 4 C) 5 D) 6 E) 7

$$\begin{array}{r} \text{KLK} \\ \times \text{KM} \\ \hline \text{504} \\ + \text{6048} \\ \hline \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15

$$\begin{array}{r} \text{KL} \cdot \text{AB} \\ \hline \text{72} \overline{) 24} \\ \underline{120} \\ \underline{120} \\ 0 \end{array} \Rightarrow \text{K} + \text{L} + \text{A} + \text{B} = ?$$

A) 20 B) 21 C) 22 D) 23 E) 24

$$\begin{array}{r} \text{KKL} \overline{) \text{KL}} \\ \hline 9 \\ \underline{0} \end{array} \Rightarrow \text{K} + \text{L} = ?$$

A) 6 B) 7 C) 8 D) 9 E) 10



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

Aşağıdaki sorularda verilen işlemlerdeki harfler sıfır veya bir-birine 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.
$$\begin{array}{r} 3A4 \\ \times BC \\ \hline 6A8 \\ + 152A \\ \hline 158A8 \end{array} \Rightarrow A + B + C = ?$$

A) 4 B) 5 C) 6 D) 7 E) 9

2.
$$\begin{array}{r} K3L \\ \times 2L \\ \hline 2M1L \\ + \cdot \cdot \cdot \\ \hline \cdot 1NNL \end{array} \Rightarrow K + L + M + N = ?$$

A) 15 B) 16 C) 17 D) 18 E) 19

3.
$$\begin{array}{r} 2A \\ \times 4B \\ \hline 1AA \\ + 8A \\ \hline 9AA \end{array} \Rightarrow B = ?$$

A) A + 1 B) A + 2 C) A + 3 D) A + 4 E) A + 5

4.
$$\begin{array}{r} 2BA \\ \times 6C \\ \hline DD2 \\ + 1BA A \\ \hline 1?A72 \end{array}$$

A) 4 B) 5 C) 6 D) 7 E) 8

5.
$$\begin{array}{r} 7BA \\ \times AB \\ \hline AC8A \\ + 3DCB \\ \hline 3C1AA \end{array} \Rightarrow A + B + C + D = ?$$

A) 12 B) 14 C) 15 D) 18 E) 21

6.
$$\begin{array}{r} KL \\ \times 2M \\ \hline 4KM \\ + 1N2 \\ \hline 14 \cdot M \end{array} \Rightarrow K + L + M + N = ?$$

A) 16 B) 15 C) 14 D) 13 E) 12

$$\begin{array}{r}
 45AB \overline{) CA} \\
 - CA \\
 \hline
 CC A \\
 - C07 \\
 \hline
 M6B \\
 - 16M \\
 \hline
 ?
 \end{array}$$

- A) 8 B) 5 C) 4 D) 3 E) 2

$$\begin{array}{r}
 CD3D \overline{) A4} \\
 - CAB \\
 \hline
 A3D \\
 - AC6 \\
 \hline
 C8
 \end{array}
 \Rightarrow A + B + C + D = ?$$

- A) 7 B) 8 C) 14 D) 15 E) 16

$$\begin{array}{r}
 A2P6 \overline{) BC} \\
 - AC \\
 \hline
 2P6 \\
 - 270 \\
 \hline
 6
 \end{array}
 \Rightarrow A + B - C = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

$$\begin{array}{r}
 AB7C \overline{) 3C} \\
 - A?C \\
 \hline
 BB C \\
 - BA0 \\
 \hline
 AC
 \end{array}$$

- A) 0 B) 3 C) 4 D) 5 E) 6

$$\begin{array}{r}
 AB5AB \overline{) 4A} \\
 - 4A \\
 \hline
 235 \\
 - \dots
 \end{array}
 \Rightarrow A + B = ?$$

- A) 7 B) 8 C) 12 D) 14 E) 15

$$\begin{array}{r}
 AB84D \overline{) 2C} \\
 - A6A \\
 \hline
 AB4 \\
 - A6A \\
 \hline
 ACD \\
 - AA5 \\
 \hline
 A8
 \end{array}
 \Rightarrow A + B = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4



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1	D	3	E	5	C	7	A	9	C	11	A
2	E	4	B	6	B	8	A	10	A	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} K \\ \times K \\ \hline 3K \end{array} \quad \begin{array}{r} K \\ + M \\ \hline L5 \end{array} \Rightarrow M = ?$$

- A) 3 B) 5 C) 7 D) 8 E) 9

2. $A = 9K5L3$
 $B = 235T4$
 $A + B = 115137 \Rightarrow K + L + T = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

3.
$$\begin{array}{r} KLM \\ \times .7 \\ \hline . . 1 \\ + . . 6 \\ \hline . . 21 \end{array} \Rightarrow K \cdot L \cdot M = ?$$

- A) 6 B) 12 C) 18 D) 21 E) 24

4.
$$\begin{array}{r} MNK \\ + NMK \\ \hline 780 \end{array} \Rightarrow \min(MNK) = ?$$

- A) 156 B) 165 C) 516 D) 561 E) 615

5.
$$\begin{array}{r} \bullet 3 \blacksquare \\ \times \bullet 2 \\ \hline \blacksquare 76 \\ + 1752 \\ \hline 18T96 \end{array} \Rightarrow T = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.
$$\begin{array}{r} MNL \\ \times 7A \\ \hline \\ + 4368 \\ \hline 45552 \end{array} \Rightarrow N + A = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

7.
$$\begin{array}{r} a7b \\ +ccb \\ \hline 60c \end{array} \Rightarrow a = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

8.
$$\begin{array}{r} KLM \\ - LKM \\ \hline 4N0 \end{array} \Rightarrow N = ?$$

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

9.
$$\begin{array}{r} KLL \\ \times LK \\ \hline \dots\dots \\ + 2196 \\ \hline \dots\dots \end{array} \Rightarrow K = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

10.
$$\begin{array}{r} \dots\dots \\ \times 43 \\ \hline \dots\dots \\ + 456 \\ \hline ab0d \end{array} \Rightarrow a + b + d = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

11.
$$\begin{array}{r} B \mid A \\ - \quad \mid 3 \\ \hline 0 \end{array} \quad \begin{array}{r} B \mid C \\ - \quad \mid 2 \\ \hline 1 \end{array} \quad \begin{array}{r} C \mid D \\ - \quad \mid 4 \\ \hline 0 \end{array} \Rightarrow A = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

12.
$$\begin{array}{r} KLM \\ LMK \\ + MKL \\ \hline 1332 \end{array} \quad 6 \cdot K = 3 \cdot M = 2 \cdot L \Rightarrow M = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5



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1	E	3	A	5	C	7	C	9	A	11	C
2	E	4	B	6	B	8	B	10	B	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.

$$\begin{array}{r} K \\ + L \\ \hline 7 \end{array} \quad \begin{array}{r} K \\ - L \\ \hline 3 \end{array} \quad \begin{array}{r} K L \\ \times L K \\ \hline ? \end{array}$$

- A) 1100 B) 1200 C) 1300
D) 1400 E) 1500

2.

$$\begin{array}{r} K5 \\ - 1 \\ \hline 3 \end{array} \Rightarrow K = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

3.

$$\begin{array}{r} AB \\ + BA \\ \hline 77 \end{array} \quad \begin{array}{r} A \\ - 3 \\ \hline B \end{array} \Rightarrow A + B = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

4.

$$\begin{array}{r} 1 A A \\ \times 2 A \\ \hline 57 B \\ + C 8 8 \\ \hline D 4 5 B \end{array} \Rightarrow D = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

$$\begin{array}{r} CA36 \\ 7C8A \\ + B3A1 \\ \hline DE7B2 \end{array} \Rightarrow \frac{500 + BEBE - DEDE}{100 + E + C} = ?$$

- A) 30 B) 40 C) 50 D) 60 E) 70

6. $C \geq 10$

$$\begin{array}{r} 1B \\ - 1 \\ \hline 4 \end{array} \quad \begin{array}{r} B \\ - 2 \\ \hline 4 \end{array} \Rightarrow C = ?$$

- A) 14 B) 13 C) 12 D) 11 E) 10

7.
$$\begin{array}{r} AB \overline{) 24} \\ \underline{1} \\ 1 \end{array} \quad \begin{array}{r} B \\ - A \\ \hline C \end{array}$$

A) 12 B) 8 C) 6 D) 4 E) 3

8.
$$\begin{array}{r} KK \\ + LL \\ \hline 154 \end{array} \quad \begin{array}{r} KK \\ - LL \\ \hline 44 \end{array} \Rightarrow K \cdot L = ?$$

A) 36 B) 45 C) 54 D) 64 E) 80

9.
$$\begin{array}{r} K \\ \times K \\ \hline L6 \end{array} \quad \begin{array}{r} L \\ \times L \\ \hline M \end{array} \Rightarrow \frac{K \times L}{M} = ?$$

A) 4 B) 3 C) 2 D) 1 E) 0

10.
$$\begin{array}{r} K \\ L \\ + M \\ \hline 24 \end{array} \quad \begin{array}{r} K \\ + M \\ \hline L \end{array} \quad \begin{array}{r} K \\ K \\ + K \\ \hline M \end{array} \Rightarrow \frac{K \cdot L}{M} = ?$$

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

11.
$$\begin{array}{r} KLMN \overline{) T} \\ \underline{ \dots} \\ \dots \\ \underline{ 210} \\ 26 \end{array} \Rightarrow T = ?$$

A) 3 B) 4 C) 5 D) 6 E) 7

12.
$$\begin{array}{r} A \overline{) B} \\ \underline{4} \\ 6 \end{array} \quad \begin{array}{r} B \overline{) C} \\ \underline{2} \\ 3 \end{array} \quad \begin{array}{l} A \geq 10 \\ B \geq 10 \end{array} \Rightarrow \frac{A}{B} = ?$$

A) 8 B) 10 C) 12 D) 14 E) 16



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1	C	3	A	5	C	7	B	9	C	11	B
2	D	4	C	6	A	8	B	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\frac{K}{L} - \frac{L}{M} - \frac{K}{N} \times \frac{M}{N} \Rightarrow T = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

2.
$$\frac{A}{4} \div \frac{7}{B} - \frac{A}{B} \div \frac{76}{76} \Rightarrow A = ?$$

- A) 88 B) 84 C) 80 D) 76 E) 74

3.
$$\frac{A}{4} + \frac{B}{9} \Rightarrow X - Y = ?$$

$$\begin{aligned} X &\geq 10, Y \geq 10 \\ \max(A + B + C) &= X \\ \min(A + B + C) &= Y \end{aligned}$$

- A) 3 B) 4 C) 5 D) 6 E) 7

4.
$$\begin{array}{r} MN \\ MN \\ MN \\ MN \\ + MN \\ \hline 1MN \end{array} \Rightarrow M \times N = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

5.
$$\begin{array}{r} \triangle \square \bullet \\ + 9 \triangle \\ \hline 348 \end{array} \Rightarrow \begin{array}{r} \square \triangle \bullet \\ - \triangle \bullet \square \\ \hline ? ? ? \end{array}$$

- A) 231 B) 241 C) 251 D) 261 E) 271

6.
$$\begin{array}{r} 4K2L \\ \times M \\ \hline 17304 \end{array} \Rightarrow K + L + M = ?$$

- A) 11 B) 13 C) 15 D) 17 E) 19

$$\begin{array}{r} \text{ABC} \\ + \text{KLM} \\ \hline 1179 \end{array} \quad \begin{array}{r} \text{ABC} \\ - \text{KLM} \\ \hline 333 \end{array} \Rightarrow \text{KLM} = ?$$

- A) 243 B) 756 C) 657 D) 423 E) 432

$$\begin{array}{r} \text{KLL} \\ + \text{KKL} \\ \hline \text{M9N} \end{array} \Rightarrow \min(\text{M}) = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$9. \quad P \geq S, T \geq 0$$

$$\begin{array}{r} P \\ - \quad R \\ \hline T \end{array} \quad \begin{array}{r} P \\ - \quad S \\ \hline T \end{array} \Rightarrow R = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r} \text{KLM} \\ - \text{MLK} \\ \hline 198 \end{array} \quad \begin{array}{r} \text{KM} \\ + \text{MK} \\ \hline 66 \end{array} \Rightarrow \text{K} \cdot \text{M} = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} \text{AA} \\ + \text{BB} \\ \hline \text{CC} \end{array} \quad \begin{array}{r} \text{CC} \\ + \text{DD} \\ \hline \text{EE} \end{array} \quad \begin{array}{l} 3 \cdot D = E \\ A = 2 \cdot B \end{array} \Rightarrow \min(\text{B}) = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$12. \quad A \geq 10; D \geq 10$$

$$\begin{array}{r} A \\ - \quad B \\ \hline 1 \end{array} \quad \begin{array}{r} D \\ - \quad C \\ \hline 5 \end{array} \Rightarrow \min(\text{C} + \text{B}) = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12



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1	C	3	A	5	D	7	D	9	A	11	B
2	A	4	B	6	B	8	B	10	D	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} KLM \\ MKL \\ + LMK \\ \hline PPP \end{array} \Rightarrow \max(P) = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} ab5 \\ \times a3 \\ \hline 70F \\ + xy0 \\ \hline 5405 \end{array} \Rightarrow a + b + x + y = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

$$\begin{array}{r} CBA \\ BAC \\ CAB \\ ABC \\ BCA \\ + ACB \\ \hline 3330 \end{array} \Rightarrow A + B + C = ?$$

- A) 5 B) 10 C) 15 D) 20 E) 25

$$\begin{array}{r} 123 \\ - \quad \quad \\ \hline M \end{array} \begin{array}{l} KL \\ 7 \end{array} \Rightarrow \min(M) = ?$$

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

$$\begin{array}{r} KKL \\ LKK \\ KLL \\ + LLK \\ \hline \dots 4 \end{array} \Rightarrow \max(K) = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} C \\ - 3 \\ \hline 1 \end{array} \quad \begin{array}{r} B \\ - 1 \\ \hline 1 \end{array} \quad \begin{array}{r} A \\ - ? \\ \hline D \end{array} \Rightarrow \frac{C}{B} = \frac{A}{D}$$

- A) 7 B) 5 C) 4 D) 3 E) 2

$$\begin{array}{r}
 \text{7.} \quad \begin{array}{r} \text{A B C D} \\ - \text{A B C} \\ \hline \text{X} \end{array} \quad \begin{array}{r} \text{A B C} \\ - \text{A B} \\ \hline \text{Y} \end{array} \quad \begin{array}{r} \text{A B} \\ - \text{A} \\ \hline \text{Z} \end{array} \quad \begin{array}{l} \text{X} \geq 10 \\ \text{Y} \geq 10 \\ \text{Z} \geq 10 \end{array} \\
 \Rightarrow \text{X} + \text{Y} + \text{Z} + \text{A} = ?
 \end{array}$$

- A) ABCD B) ABC0 C) ABC
D) AB0 E) AB

$$\begin{array}{r}
 \text{8.} \quad \begin{array}{r} \text{A B C} \\ \times \text{B B} \\ \hline \text{A B C} \\ + \text{A B C} \\ \hline 785C \end{array} \Rightarrow \text{A} - \text{C} = ?
 \end{array}$$

- A) 4 B) 3 C) 2 D) 1 E) 0

$$\begin{array}{r}
 \text{9.} \quad \begin{array}{r} \text{K L} \\ \text{L K} \\ + \text{L L} \\ \hline 187 \end{array} \Rightarrow \text{K} = ?
 \end{array}$$

- A) $\text{K} = \text{L}$ B) $\text{K} = \frac{\text{L}-11}{2}$ C) $\text{K} = 17 - 2 \cdot \text{L}$
D) $\text{K} = 59 - \text{L}$ E) $\text{K} = \text{L} + 17$

$$\begin{array}{r}
 \text{10.} \quad \begin{array}{r} \text{LL} \\ \times \text{M} \\ \hline \text{LL} \end{array} \quad \begin{array}{r} \text{KL} \\ \times 2\text{M} \\ \hline \begin{array}{r} \cdot \cdot \\ \cdot \cdot \\ \cdot \cdot \\ \hline 903 \end{array} \end{array} \Rightarrow \text{K} = ?
 \end{array}$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r}
 \text{11.} \quad \begin{array}{r} \text{ABC9} \\ - \text{AA} \\ \hline \text{DC} \\ - \text{DD} \\ \hline \text{B9} \\ - \text{BB} \\ \hline 2 \end{array} \quad \begin{array}{r} \text{DD} \\ \hline \text{ADB} \end{array} \Rightarrow \text{A} + \text{B} + \text{C} = ?
 \end{array}$$

- A) 19 B) 20 C) 21 D) 22 E) 23

$$\begin{array}{r}
 \text{12.} \quad \begin{array}{r} \text{K L L} \\ \text{L K K} \\ + \text{M M M} \\ \hline 1665 \end{array} \quad \begin{array}{r} \text{K L} \\ - \text{L K} \\ \hline 45 \end{array} \Rightarrow \begin{array}{r} \text{K} \\ \text{K} \\ + \text{M} \\ \hline ? \end{array}
 \end{array}$$

- A) 13 B) 17 C) 20 D) 22 E) 26



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1	E	3	C	5	E	7	A	9	C	11	C
2	E	4	C	6	E	8	B	10	D	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} 173 \\ \times KL \\ \hline \cdot \cdot \cdot \\ + \cdot M \cdot \\ \hline 7266 \end{array} \Rightarrow M = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

2.
$$\begin{array}{r} AAAA \\ + BBBB \\ \hline 9999 \end{array} \quad \begin{array}{r} ACB \\ - BCA \\ \hline 297 \end{array} \Rightarrow A \times B = ?$$

- A) 15 B) 18 C) 21 D) 24 E) 27

3.
$$\frac{A}{2} \Big| \frac{B}{2} \quad \frac{B}{1} \Big| \frac{C}{1} \quad \frac{A}{0} \Big| \frac{C}{4} \quad \frac{D}{1} \Big| \frac{C}{2}$$

$\Rightarrow D = ?$

- A) 5 B) 4 C) 3 D) 2 E) 1

4.
$$\frac{A}{B} \div \frac{A}{C} + \frac{A}{8} + \frac{B}{6} \Rightarrow C = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

5.
$$\begin{array}{r} MS \\ S \\ - ES \\ \hline ES \\ - ES \\ \hline 0 \end{array} \Big| \begin{array}{r} S \\ YS \end{array} \Rightarrow \min(S) + \max(S) = ?$$

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

6.
$$\begin{array}{r} KL7 \\ - LK8 \\ \hline M4 \cdot \end{array} \Rightarrow M = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

7.
$$\begin{array}{r} \text{M Y M} \\ + \text{Y M Y} \\ \hline 1 \text{ E E } 3 \end{array} \Rightarrow \text{M} + \text{Y} + \text{E} = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

8.
$$\begin{array}{r} \text{A} \mid 6 \\ - \quad \mid \text{B} \\ \hline 3 \end{array} \quad \begin{array}{r} \text{B} \mid 5 \\ - \quad \mid \text{C} \\ \hline 2 \end{array} \quad \begin{array}{r} \text{A+B} \mid 35 \\ - \quad \mid \text{C} \\ \hline x \end{array} \Rightarrow x = ?$$

- A) 12 B) 17 C) 20 D) 23 E) 27

9.
$$\begin{array}{r} \text{A B } 7 \\ + 2 \text{ B C} \\ \hline \text{B B } 2 \end{array} \Rightarrow \text{A} + \text{B} = ?$$

- A) 15 B) 14 C) 13 D) 12 E) 11

10.
$$\begin{array}{r} \text{K} \\ - \text{L} \\ \hline \text{M} \end{array} + \begin{array}{r} \text{L} \\ + \text{M} \\ \hline \text{N} \end{array} \Rightarrow \text{K} \geq \text{N}$$

- A) $2 \cdot \text{K}$ B) $3 \cdot \text{K}$ C) $4 \cdot \text{K}$ D) $5 \cdot \text{K}$ E) $6 \cdot \text{K}$

11.
$$\begin{array}{r} \text{K L K L } 3 \\ - \quad \mid \text{K L} \\ \hline \text{N} \end{array} \Rightarrow \text{M} + \text{N} = ?$$

- A) 14 B) 104 C) 1003
D) 1013 E) 10003

12.
$$\begin{array}{r} \text{A} \\ + \text{B} \\ \hline 3 \end{array} + \begin{array}{r} \text{C} \\ + \text{A} \\ \hline \text{K K} \end{array} \Rightarrow \text{C} = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

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1	A	3	A	5	C	7	E	9	A	11	D
2	B	4	A	6	B	8	B	10	B	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$1. \begin{array}{r} KL \\ \times M \\ \hline 224 \end{array} \quad \begin{array}{r} BA \\ \times A \\ \hline 224 \end{array} \Rightarrow K + L + (M \cdot B) + A = ?$$

- A) 23 B) 24 C) 25 D) 26 E) 27

$$2. \begin{array}{r} KL \\ \times 4M \\ \hline 115 \\ + 92 \\ \hline \dots \end{array} \Rightarrow K + L + M = ?$$

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

$$3. \begin{array}{r} ABB \\ ABA \\ + BAB \\ \hline 190C \end{array} \Rightarrow \max(A+B) = ?$$

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

$$4. \begin{array}{r} A \mid 3 \\ - B \\ \hline 0 \end{array} \quad \begin{array}{r} B \mid C \\ - 0 \\ \hline 2 \end{array} \quad \begin{array}{r} A \mid C \\ - 0 \\ \hline x \end{array} \Rightarrow x = ?$$

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

$$5. \begin{array}{r} KLM \\ \times N4 \\ \hline 856 \\ + \dots \\ \hline 7276 \end{array} \Rightarrow K + L + M + N = ?$$

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

$$6. \begin{array}{r} KL \\ \times M3 \\ \hline 450 \\ + 4725 \\ \hline \end{array} \Rightarrow K + L + M = ?$$

- A) 18 B) 17 C) 16 D) 15 E) 14

7.

$$\begin{array}{r} \text{KM} \\ \text{M} \\ + \text{M} \\ \hline 48 \end{array}$$

$$\frac{K \cdot L}{2} = M \Rightarrow L = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

8.

$$\begin{array}{r} a \ b \ a \\ \times \ a \ b \\ \hline \cdot \cdot \cdot \\ + a \ b \ a \\ \hline \cdot \cdot 7 \ 6 \end{array}$$

$$\Rightarrow a + b = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

9.

$$\begin{array}{r} A \ B \\ B \ A \\ A \ A \\ + B \ B \\ \hline 1 \ 5 \ 4 \end{array}$$

$$\begin{array}{r} B \ A \\ - A \ B \\ \hline 9 \end{array} \Rightarrow A \times B = ?$$

- A) 9 B) 12 C) 15 D) 18 E) 20

10.

$$\begin{array}{r} K \ L \ M \\ \times \ M \ L \\ \hline N \ N \ L \ 5 \\ + K \ L \ 1 \\ \hline 6 \ 7 \cdot 5 \end{array}$$

$$\Rightarrow N = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

11.

$$\begin{array}{r} K \ 4 \ L \\ - 3 \ L \ K \\ \hline 5 \ 0 \ 5 \end{array}$$

$$\Rightarrow K = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

12.

$$\begin{array}{r|l} 1 \ M \ 7 \ 6 & 1 \ E \\ - 1 \ M \ M & E \ T \\ \hline 0 \ 0 \ Y \ 6 & \\ - Y \ 6 & \\ \hline 0 & \end{array}$$

$$\Rightarrow Y + E = ?$$

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



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

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In the operations which are given in the following questions, each letter stands for a different numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} \text{K L M} \\ + \text{X Y Z} \\ \hline 1524 \end{array} \quad \begin{array}{r} \text{K L M} \\ - \text{X Y Z} \\ \hline 154 \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 20 B) 18 C) 16 D) 14 E) 12

2.
$$\begin{array}{r|l} \text{KLMKLM} & \text{KLM} \\ \hline - & x \\ \hline & 0 \end{array} \Rightarrow x = ?$$

- A) 2 B) 101 C) 1001
D) 2001 E) 10001

3.
$$\begin{array}{r} \text{K} \quad \text{L} \\ + 2 \quad + 3 \\ \hline \text{L} \quad \text{M} \end{array} \Rightarrow \begin{array}{r} \text{M K L} \\ - \text{K M L} \\ \hline ? ? ? \end{array}$$

- A) 250 B) 350 C) 450 D) 550 E) 650

4. $\frac{1 \text{ K } 4}{\text{P}} \left| \frac{\text{K } 2}{4} \right. (12 \cdot \text{K})^{\frac{1}{2}} = 6 \Rightarrow \text{P} = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

5.
$$\begin{array}{r} K L M \\ L M K \\ + M K L \\ \hline 166N \end{array} \Rightarrow \min(KLM) = ?$$

- A) 249 B) 179 C) 173 D) 169 E) 159

6.
$$\frac{KKL}{KL} \Bigg| \frac{25}{M} \Rightarrow \max(KKL) = ?$$

- A) 116 B) 119 C) 223 D) 227 E) 229

$$7. \quad \begin{array}{r} A B \\ + B A \\ \hline 132 \end{array} \quad \begin{array}{r} A B \\ - B A \\ \hline 36 \end{array} \Rightarrow \frac{A \cdot B}{A+B} = ?$$

- A) $\frac{7}{3}$ B) $\frac{8}{5}$ C) $\frac{9}{5}$ D) $\frac{5}{3}$ E) $\frac{8}{3}$

$$8. \quad \begin{array}{r} K \mid L \\ - 3 \mid 12 \\ \hline \end{array} \quad \begin{array}{r} K-L \mid L \\ - 3 \mid L \\ \hline \end{array} \Rightarrow K + L = ?$$

- A) 142 B) 143 C) 144 D) 145 E) 146

$$9. \quad \begin{array}{r} KL \mid LK \\ - 10 \mid 2 \\ \hline \end{array} \Rightarrow K = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

$$10. \quad \begin{array}{r} AB \\ AA \\ AA \\ BB \\ BB \\ + BA \\ \hline 396 \end{array} \Rightarrow \min(A \times B) = ?$$

- A) 11 B) 20 C) 27 D) 32 E) 35

$$11. \quad \begin{array}{r} AB \\ \times BA \\ \hline C1C \\ + A21 \\ \hline AA2C \end{array} \Rightarrow C = ?$$

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

$$12. \quad \frac{KKK}{LLL} = K \quad \frac{KK}{77} + \frac{MM}{77} \quad \frac{MM}{33} - \frac{LL}{33} \Rightarrow L + (K \cdot M) = ?$$

- A) 11 B) 12 C) 13 D) 14 E) 15



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1	A	3	C	5	E	7	E	9	D	11	C
2	C	4	D	6	C	8	E	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

$$\begin{array}{r} K \ 4 \ L \\ + 1 \ L \ K \\ \hline L \ 7 \ 5 \end{array} \Rightarrow L - K = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

$$\begin{array}{r} x \ y \\ \times m \ n \\ \hline 1 \ 7 \ 5 \\ + \dots \dots \dots \\ \hline 2 \ 4 \ 2 \ 5 \end{array} \Rightarrow x + y + m + n = ?$$

- A) 21 B) 22 C) 23 D) 24 E) 25

$$\begin{array}{r} K \ L \ M \\ + \quad M \ L \\ \hline 1 \ 0 \ 2 \ 1 \end{array} \Rightarrow K + L + M = ?$$

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

$$\begin{array}{r} 1 \ A \ A \\ \times 1 \ A \\ \hline B \ B \ A \\ + 1 \ A \ A \\ \hline 2 \ A \ C \ A \end{array} \Rightarrow C = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

$$\begin{array}{r} K \ L \ M \\ + L \ M \ K \\ \hline 1 \ 0 \ 0 \ 3 \end{array} \Rightarrow K + L + M = ?$$

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

$$\begin{array}{r} K \\ + L \\ \hline M \ M \end{array} \quad \begin{array}{r} K \\ + M \\ \hline L \end{array} \Rightarrow L = ?$$

- A) 1 B) 5 C) 6 D) 8 E) 9

7.
$$\begin{array}{r} K \quad L \\ \hline = \quad 25 \\ 12 \end{array} \quad \begin{array}{l} L \geq 10 \\ K \geq 10 \\ \Rightarrow \min(K) = ? \end{array}$$

- A) 298 B) 307 C) 312
D) 322 E) 337

8.
$$\begin{array}{r} K L K \\ K K L \\ L L K \\ + L K L \\ \hline 666 \end{array} \Rightarrow K + L = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.
$$\begin{array}{r} 1 K L \\ \times 1 Y \\ \hline 561 \\ + 1 K L \\ \hline 2 E Y 1 \end{array} \Rightarrow E = ?$$

- A) 3 B) 4 C) 5 D) 7 E) 8

10.
$$\begin{array}{r} K \quad L \quad M \quad N M L \\ + 2 \quad + 1 \quad + 3 \quad - K N M \\ \hline L \quad M \quad N \quad ? ? ? \end{array}$$

- A) 564 B) 567 C) 569 D) 572 E) 575

11.
$$\begin{array}{r} A B 8 \\ \times B A \\ \hline C 0 B B \\ + C A 9 2 \\ \hline C B 9 6 B \end{array} \Rightarrow A + B + C = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

12.
$$\begin{array}{r} K L M \\ + L K M \\ \hline 786 \end{array} \Rightarrow M - K - L = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5



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1	B	3	D	5	C	7	E	9	B	11	B
2	C	4	C	6	C	8	C	10	C	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} K \\ + L \\ \hline M \end{array} + \begin{array}{r} M \\ + 5 \\ \hline P \end{array} + \begin{array}{r} P \\ + 7 \\ \hline 15 \end{array} \Rightarrow K \times L = ?$$

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

2.
$$\begin{array}{r} 398 \\ - M \\ \hline 17 \end{array} \begin{array}{l} KL \\ 17 \end{array} \Rightarrow K + L + M = ?$$

A) 8 B) 9 C) 12 D) 14 E) 15

3.
$$\begin{array}{r} C D 6 \\ + A 4 B \\ \hline 1 4 3 1 \end{array} \Rightarrow \max(A-C) = ?$$

A) 36 B) 40 C) 42 D) 48 E) 54

4.
$$\begin{array}{r} A B C \\ \times D C \\ \hline E B C \\ + D 7 C \\ \hline 4 D 7 C \end{array} \Rightarrow A + B + C + D = ?$$

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

5.
$$\begin{array}{r} A 2 B \\ + 4 3 A \\ \hline 9 5 8 \end{array} \Rightarrow B A B B A = ?$$

A) 33553 B) 35353 C) 35335
D) 53533 E) 55353

6.
$$\begin{array}{r} K \\ \times K \\ \hline L 1 \end{array} \quad \begin{array}{r} M \\ \times M \\ \hline 4 K \end{array} \quad \begin{array}{r} N \\ \times N \\ \hline P 6 \end{array}$$

$\Rightarrow \max(K + L + M + N + P) = ?$

A) 30 B) 31 C) 32 D) 33 E) 34

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

A) 7 B) 6 C) 5 D) 4 E) 3

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

A) 6 B) 7 C) 9 D) 11 E) 15

A) 15 B) 18 C) 21 D) 24 E) 27

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



1	C	3	C	5	C	7	A	9	B	11	B
2	C	4	C	6	D	8	D	10	B	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} AA \\ BB \\ + CC \\ \hline 121 \end{array} \quad \begin{array}{r} B \\ - A \\ \hline A \end{array} \Rightarrow \max(C) = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

2.
$$\begin{array}{r} A \\ + B \\ \hline C \end{array} \quad \begin{array}{r} D \\ \times D \\ \hline A \end{array} \quad \begin{array}{r} E \\ \times E \\ \hline C \end{array} \Rightarrow B = ?$$

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

3.
$$\begin{array}{r} KL \\ - LK \\ \hline 36 \end{array} \quad \begin{array}{r} LK \\ + KK \\ \hline 1L8 \end{array} \Rightarrow L = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

4.
$$\begin{array}{r} ABC \\ \times 7 \\ \hline D59 \end{array} \Rightarrow \frac{D}{B} = ?$$

- A) 1 B) 2 C) 3 D) 8 E) 9

5.
$$\begin{array}{r} KK \\ + K \\ \hline KL \end{array} \Rightarrow \min(L) + \max(K) = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

6.
$$\begin{array}{r} KK \\ \times K \\ \hline LL \end{array} \quad \begin{array}{r} LL \\ \times K \\ \hline MM \end{array} \quad \begin{array}{r} MM \\ - KK \\ \hline NN \end{array} \Rightarrow N = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

7.
$$\begin{array}{r} K \\ + K \\ \hline L \end{array} \quad \begin{array}{r} L \\ + L \\ \hline M \end{array} \quad \begin{array}{r} M \\ + M \\ \hline 1N \end{array} \Rightarrow K+L+M+N=?$$

A) 12 B) 14 C) 16 D) 18 E) 20

8.
$$\begin{array}{r} 4K \\ - K-2 \\ \hline \end{array} \bigg| \begin{array}{r} K+3 \\ 7 \end{array} \Rightarrow K=?$$

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

9.
$$\begin{array}{r} KK3L \\ + M658 \\ \hline N2L93 \end{array} \Rightarrow N^2 + M = ?$$

A) 3 B) 5 C) 7 D) 11 E) 18

10.
$$\begin{array}{r} ABC \\ - C7 \\ \hline 368 \end{array} \Rightarrow A+B+C=?$$

A) 14 B) 13 C) 12 D) 11 E) 10

11.
$$\begin{array}{r} a0c2 \\ - cd \\ \hline 1998 \end{array} \Rightarrow a+d=?$$

A) 5 B) 6 C) 7 D) 8 E) 9

12.
$$\begin{array}{r} KL2 \\ - KL \\ \hline 317 \end{array} \Rightarrow K+L=?$$

A) 7 B) 8 C) 9 D) 10 E) 11



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1	E	3	B	5	B	7	E	9	A	11	B
2	D	4	C	6	D	8	B	10	D	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} K \\ + 2 \\ \hline L \end{array} \quad \begin{array}{r} L \\ + 3 \\ \hline M \end{array} \quad \begin{array}{r} KLM \\ + LKM \\ \hline 896 \end{array} \Rightarrow K + L + M = ?$$

- A) 14 B) 16 C) 18 D) 20 E) 22

2.
$$\begin{array}{r} 4acb \\ - 2bca \\ \hline 2e98 \end{array} \Rightarrow e = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3.
$$\begin{array}{r} A \\ B \\ + C \\ \hline 24 \end{array} \quad \begin{array}{r} AB \\ + BA \\ \hline 165 \end{array} \Rightarrow C = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

4.
$$\begin{array}{r} KLM \\ + ABC \\ \hline 868 \end{array} \quad \begin{array}{r} 412 \\ - KLM \\ \hline 289 \end{array} \Rightarrow A + B + C = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

5.
$$\begin{array}{r} AA \\ AB \\ BA \\ + BB \\ \hline 110 \end{array} \Rightarrow A + B = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

6.
$$\begin{array}{r} A47B \\ - B74A \\ \hline 3726 \end{array} \Rightarrow \begin{array}{r} A74B \\ - B47A \\ \hline ???? \end{array}$$

- A) 3456 B) 3996 C) 4036
D) 4266 E) 4326

7.
$$\begin{array}{r} L \ K \ M \\ + \ K \ M \ L \\ \hline 3 \ 5 \ 4 \end{array} \Rightarrow K + L + M = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

8.
$$\begin{array}{r} M \ N \ K \\ + \ 2 \ N \ K \\ \hline 8 \ 2 \ N \end{array} \Rightarrow M + 2 \cdot N + K = ?$$

- A) 18 B) 19 C) 20 D) 21 E) 22

9.
$$\begin{array}{r} K \\ + \ L \\ \hline M \ M \end{array} \quad \begin{array}{r} K \\ - \ M \\ \hline L \end{array} \Rightarrow K \cdot L \cdot M = ?$$

- A) 20 B) 30 C) 40 D) 50 E) 60

10.
$$\begin{array}{r} 8 \ 5 \ K \\ - \ 3 \ L \ 9 \\ \hline 4 \ L \ L \end{array} \Rightarrow K \times L = ?$$

- A) 36 B) 42 C) 49 D) 56 E) 63

11.
$$\frac{A}{C} - \frac{B}{C} + \frac{A}{D} + \frac{B}{D} \Rightarrow \frac{C+D}{2} = ?$$

- A) A/2 B) A C) 2A D) 3A E) 4A

12.
$$\begin{array}{r} A \ B \ C \\ + \ C \ B \ A \\ \hline K \ K \ K \end{array} \Rightarrow (A+C) \cdot B = ?$$

- A) 30 B) 40 C) 50 D) 60 E) 70



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1	B	3	C	5	A	7	B	9	B	11	B
2	A	4	E	6	D	8	C	10	B	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} KK \\ + LL \\ \hline 165 \end{array} \quad \begin{array}{r} KL \\ - LK \\ \hline 27 \end{array} \Rightarrow K \cdot L = ?$$

- A) 18 B) 32 C) 42 D) 54 E) 62

2.
$$\begin{array}{r} KLM \\ + K6 \\ \hline 1K01 \end{array} \Rightarrow K - L = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

3.
$$\begin{array}{r} A43 \\ + BBB \\ \hline 6 \cdot 5 \end{array} \Rightarrow A = ?$$

- A) 4 B) 5 C) 13 D) 14 E) 15

4.
$$\begin{array}{r} KM \\ - MK \\ \hline 27 \end{array} \quad \begin{array}{r} KK \\ LL \\ + MM \\ \hline 132 \end{array} \Rightarrow \begin{array}{r} K \\ K \\ + L \\ \hline ? \end{array}$$

- A) 13 B) 14 C) 15 D) 16 E) 17

5.
$$\begin{array}{r} KK \\ KL \\ LK \\ + LL \\ \hline 264 \end{array} \Rightarrow \min(KL) = ?$$

- A) 57 B) 48 C) 39 D) 25 E) 14

6.
$$\begin{array}{r} 4B6 \\ + 6B \\ \hline 54A \end{array} \Rightarrow A + B = ?$$

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

7.

$$\begin{array}{r} \text{A B C} \\ - \text{D C E} \\ \hline 312 \end{array} + \begin{array}{r} \text{D C E} \\ + \text{A B C} \\ \hline 840 \end{array} \Rightarrow \text{A} + \text{B} + \text{C} = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

8. $L \neq 1$

$$\begin{array}{r} \text{K K} \\ \text{L L} \\ + \text{K L} \\ \hline 180 \end{array} \Rightarrow (\text{K} \times \text{L}) = ?$$

- A) 24 B) 28 C) 32 D) 36 E) 42

9.

$$\begin{array}{r} \text{A} \\ - \text{B} \\ \hline \text{C} \end{array} + \begin{array}{r} \text{B} \\ + \text{C} \\ \hline \text{D} \end{array} \Rightarrow \text{A} + \text{B} + \text{C} + \text{D} = ?$$

- A) $2 \cdot A$ B) $3 \cdot A$ C) $4 \cdot A$
D) $5 \cdot A$ E) $6 \cdot A$

10.

$$\begin{array}{r} 65\text{K} \\ - \text{ML9} \\ \hline 16\text{M} \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

11.

$$\begin{array}{r} \text{A} \\ + \frac{2}{\text{C}} \end{array} - \begin{array}{r} \text{B} \\ \frac{1}{\text{C}} \end{array} + \begin{array}{r} \text{A} \\ + \frac{\text{B}}{7} \end{array} \Rightarrow \text{C} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

12.

$$\begin{array}{r} \text{K} \\ + \text{L} \\ \hline \text{MM} \end{array} + \begin{array}{r} \text{M} \\ \text{K} \\ + \text{L} \\ \hline \text{MN} \end{array} \Rightarrow \text{N} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

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1	D	3	A	5	C	7	E	9	B	11	D
2	E	4	C	6	B	8	C	10	A	12	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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} KY7 \\ - YKY \\ \hline YK \end{array} \Rightarrow K + Y = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

2.
$$\begin{array}{r} KKK \\ LLL \\ + MMM \\ \hline 2109 \end{array} \quad \begin{array}{r} KLM \\ - MLK \\ \hline 99 \end{array} \Rightarrow \begin{array}{r} M \\ M \\ + L \\ \hline ? \end{array}$$

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

3.
$$\begin{array}{r} 572 \\ + M4N \\ \hline 92K \end{array} \Rightarrow M + K = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

4.
$$\begin{array}{r} KLM \\ + 632 \\ \hline 1211 \end{array} \Rightarrow K + L + M = ?$$

- A) 19 B) 20 C) 21 D) 22 E) 23

5.
$$\begin{array}{r} KL \\ - LK \\ \hline M \end{array} \quad \begin{array}{r} K \\ - L \\ \hline N \end{array} \Rightarrow M + N = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

6.
$$\begin{array}{r} ABB \\ + AB \\ \hline 3K8 \end{array} \Rightarrow K = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} 7. \quad \begin{array}{r} ABC \\ + BAC \\ \hline 56B \end{array} \Rightarrow A + B = ? \end{array}$$

- A) 4 B) 5 C) 6 D) 7 E) 8

$$\begin{array}{r} 8. \quad \begin{array}{r} abcd \\ - cbad \\ \hline 1980 \end{array} \Rightarrow a - c = ? \end{array}$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$\begin{array}{r} 9. \quad \begin{array}{r} 91MN \\ - M9NM \\ \hline 12N6 \end{array} \Rightarrow M \cdot N = ? \end{array}$$

- A) 20 B) 21 C) 24 D) 25 E) 28

$$\begin{array}{r} 10. \quad \begin{array}{r} KLL \\ - LKK \\ \hline M6N \end{array} \Rightarrow M + N = ? \end{array}$$

- A) 10 B) 9 C) 8 D) 7 E) 6

$$\begin{array}{r} 11. \quad \begin{array}{r} 3P2 \\ R4S \\ + 2RS \\ \hline 684 \end{array} \Rightarrow P + R + S = ? \end{array}$$

- A) 5 B) 6 C) 7 D) 8 E) 9

$$\begin{array}{r} 12. \quad \begin{array}{r} ABC \\ - CBA \\ \hline DE6 \end{array} \Rightarrow D + E = ? \end{array}$$

- A) 8 B) 9 C) 10 D) 11 E) 12



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

Aşağıdaki sorularda verilen işlemlerde her harf sıfırdan ve bir-birinden 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 numeral and different from zero. Accordingly, find the value of the letter or operation indicated by the questions mark.

1.
$$\begin{array}{r} 5KL \\ - 2LK \\ \hline 318 \end{array} \Rightarrow \max(L) = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

2.
$$\begin{array}{r} KKL \\ - LKK \\ \hline 198 \end{array} \quad \begin{array}{r} KK \\ + LL \\ \hline 176 \end{array} \Rightarrow K \times L = ?$$

- A) 35 B) 42 C) 49 D) 56 E) 63

3.
$$\begin{array}{r} KK \\ + LL \\ \hline MNM \end{array} \Rightarrow \max(K \times L) = ?$$

- A) 18 B) 24 C) 28 D) 30 E) 42

4.
$$\begin{array}{r} ABC \\ + AC6 \\ \hline 1A01 \end{array} \Rightarrow A - B = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

5.
$$\begin{array}{r} K L K \\ - M K M \\ \hline X Y Z \end{array} \quad \begin{array}{r} K \\ \times X \\ \hline 5 \end{array} \Rightarrow M = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

6.
$$\begin{array}{r} K L M \\ + M K L \\ \hline 897 \end{array} \Rightarrow K + L + M = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

7.

$$\begin{array}{r} AB5 \\ + BCC \\ \hline 1311 \end{array} \Rightarrow A + B + C = ?$$

- A) 19 B) 18 C) 17 D) 16 E) 15

8.

$$\begin{array}{r} KLM \\ + KML \\ \hline 1376 \end{array} \Rightarrow M + L - K = ?$$

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

9.

$$\begin{array}{r} ABC \\ + 1AC \\ \hline 72B \end{array} \Rightarrow A + B + C = ?$$

- A) 14 B) 15 C) 16 D) 18 E) 19

10.

$$\begin{array}{r} AA7 \\ - BC9 \\ \hline 16C \end{array} \Rightarrow B = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.

$$\begin{array}{r} KLM \\ + MKL \\ \hline 398 \end{array} \Rightarrow K \cdot L \cdot M = ?$$

- A) 18 B) 17 C) 16 D) 15 E) 14

12.

$$\begin{array}{r} 4KL \\ L6K \\ + KL5 \\ \hline 1NM7 \end{array} \Rightarrow N + M = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18



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

BÖLÜM 8 CHAPTER

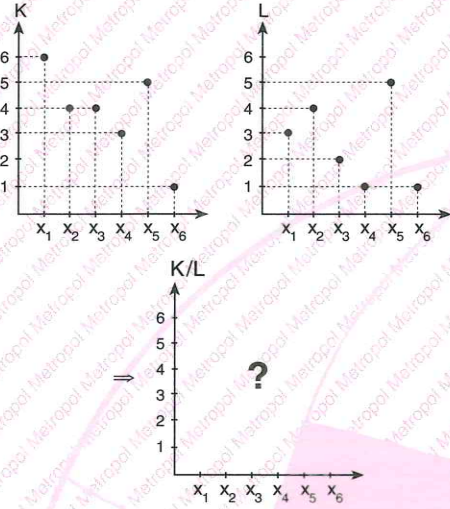
GRAFİKLER GRAPHS

Bölüm / Chapter 8

Çizgi ve Nokta Grafikler / Line and Dot Graphs

Test 1

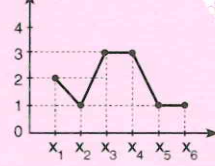
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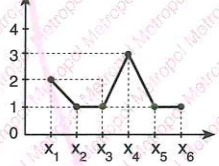
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B) K/L



C) K/L



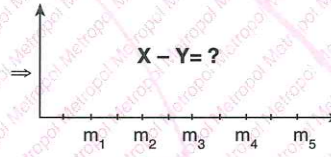
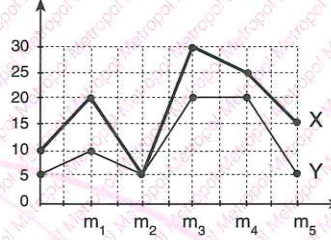
D) K/L



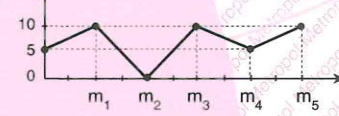
E) K/L



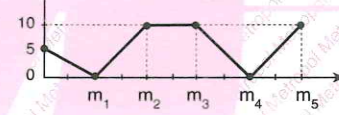
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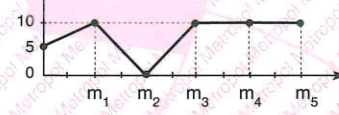
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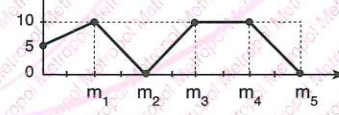
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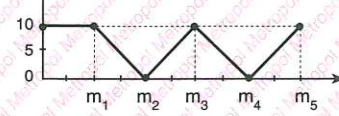
C)



D)

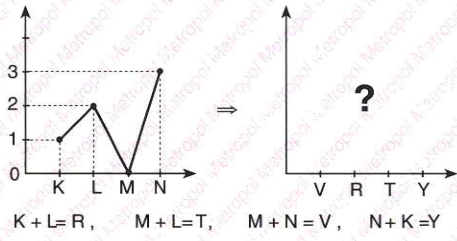


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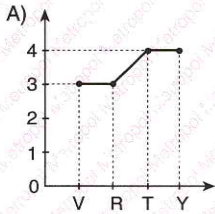


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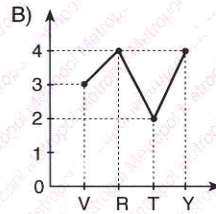
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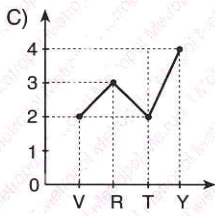
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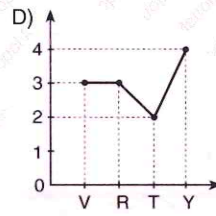
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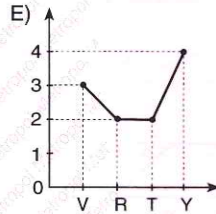
C)



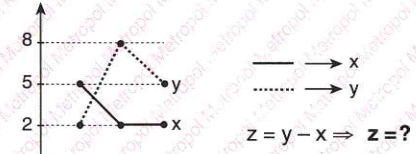
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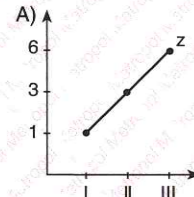
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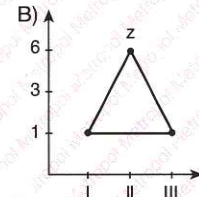
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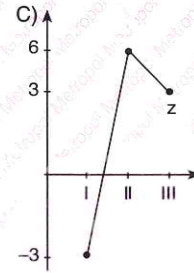
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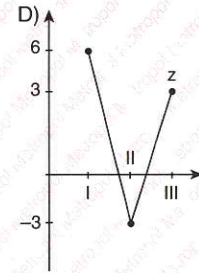
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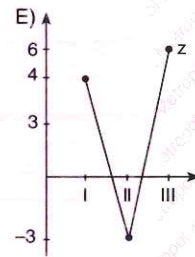
C)



D)



E)



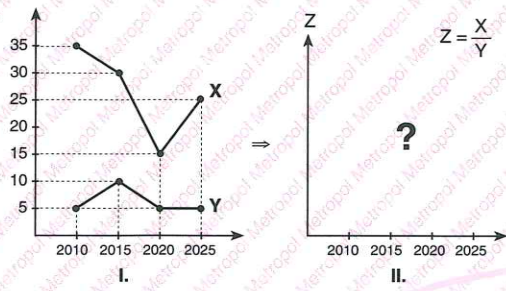
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1	D	3	D
2	A	4	C

1.

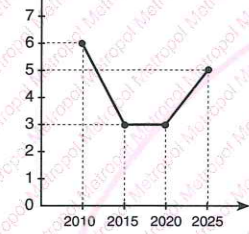


I.

?

II.

A)



B)



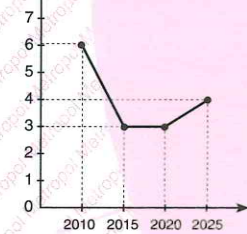
C)



D)

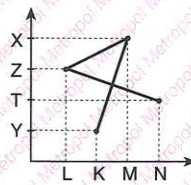


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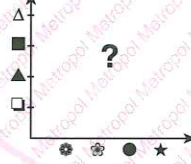


2.

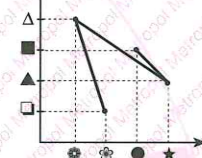
I.

 $P_1 (K, Y)$ $P_2 (M, X)$ $P_3 (L, Z)$ $P_4 (N, T)$ 

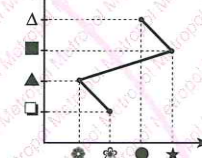
II.

 $P_1 (\Delta, \bullet)$ $P_2 (\square, \star)$ $P_3 (\blacksquare, \odot)$ $P_4 (\blacktriangle, \otimes)$ 

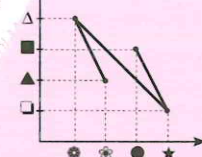
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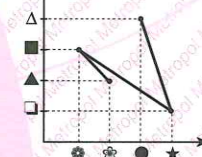
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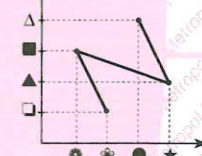
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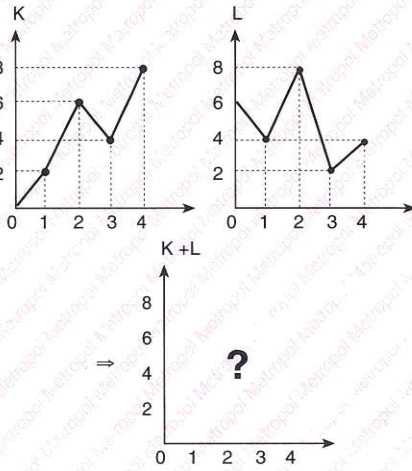
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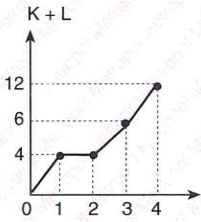
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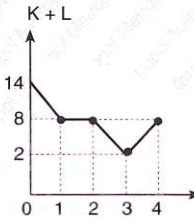
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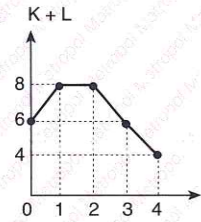
A)



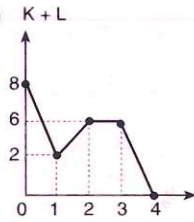
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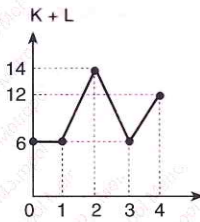
C)



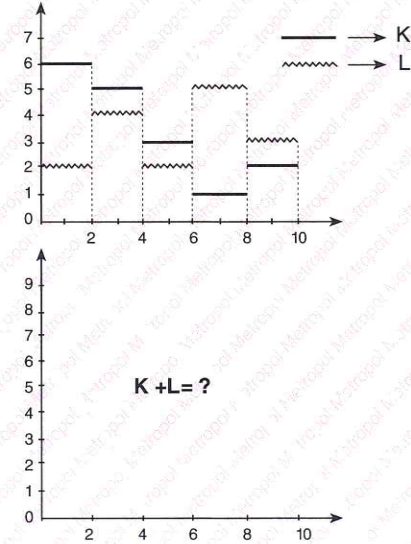
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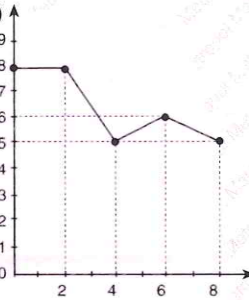
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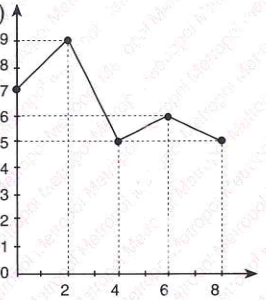
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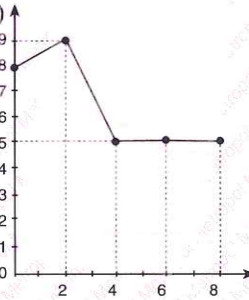
A)



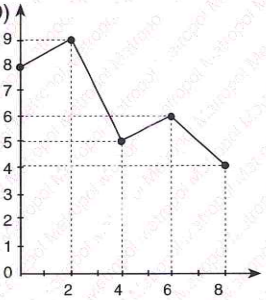
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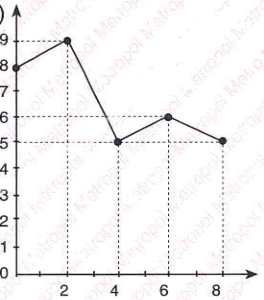
C)



D)



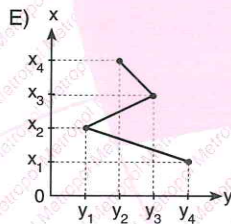
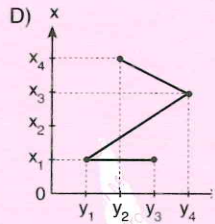
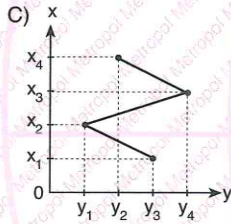
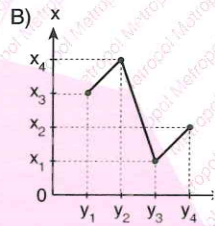
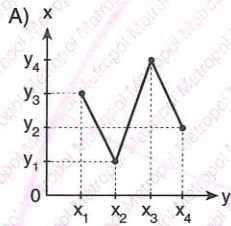
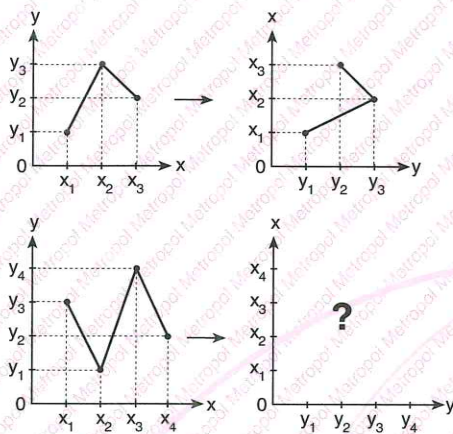
E)



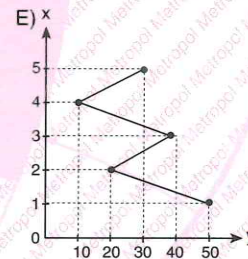
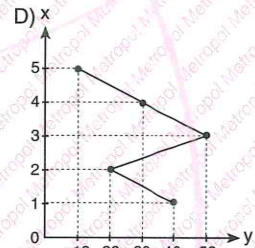
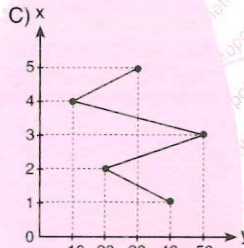
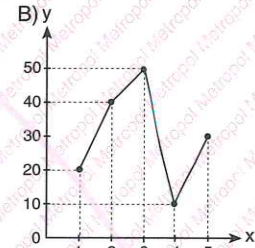
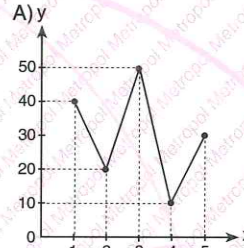
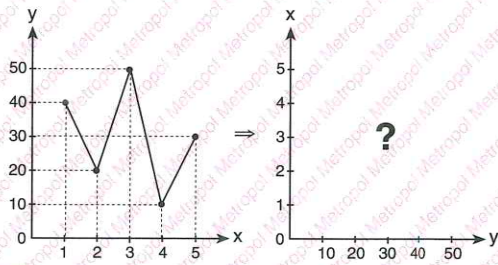
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1	B	3	E
2	D	4	E

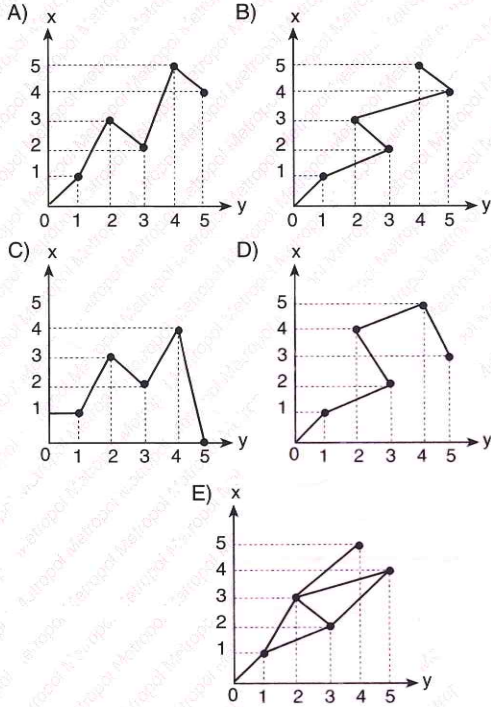
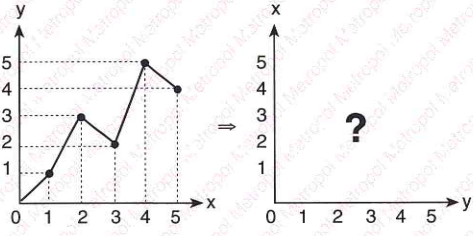
1.



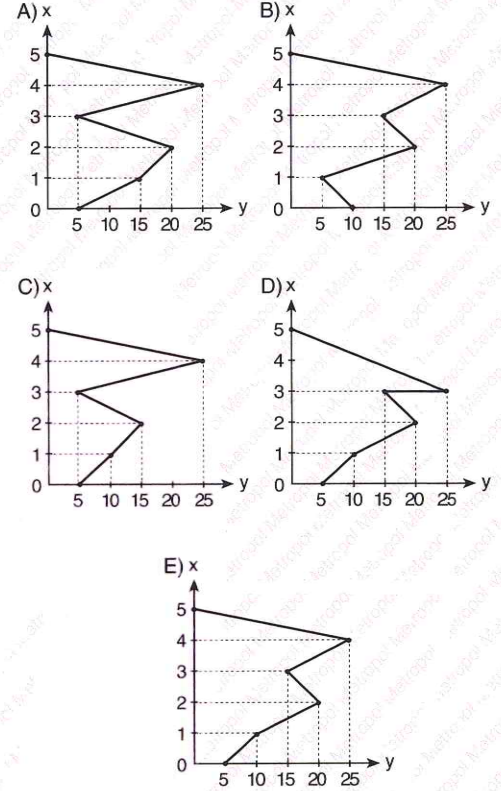
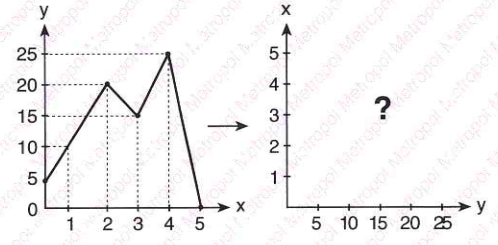
2.



3.



4.



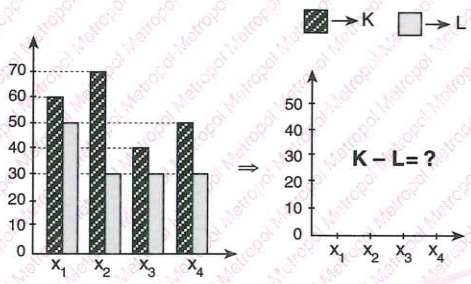
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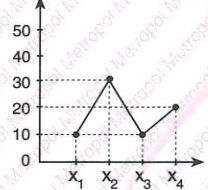
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1	C	3	A
2	C	4	E

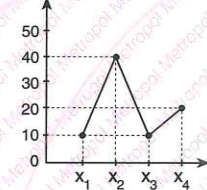
1.



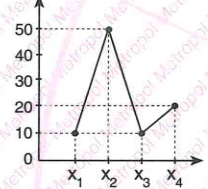
A) K - L



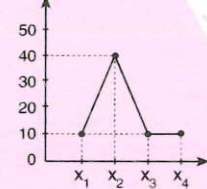
B) K - L



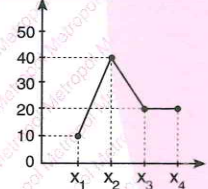
C) K - L



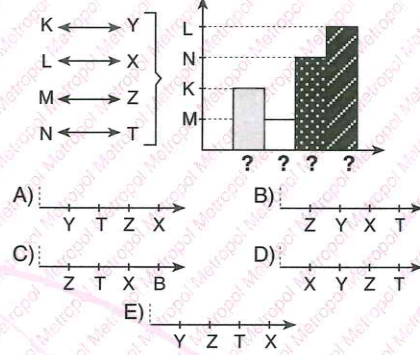
D) K - L



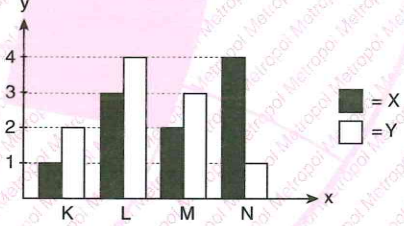
E) K - L



2.



3.



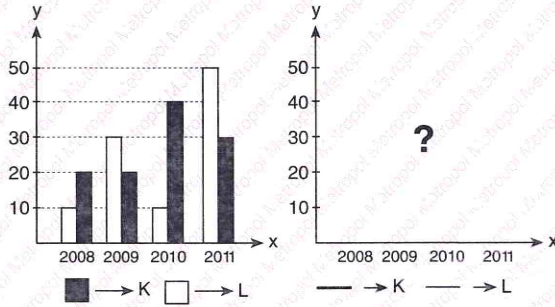
$$X_K + X_L + X_M + X_N = 180$$

$$Y_K + Y_L + Y_M + Y_N = 130$$

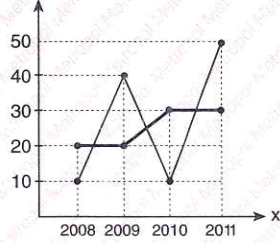
$$\Rightarrow X_K = ?, X_L = ?, Y_M = ?, Y_N = ?$$

X_K	X_L	Y_M	Y_N
A) 18	54	39	26
B) 18	54	39	13
C) 36	18	26	26
D) 36	72	52	13
E) 54	72	26	39

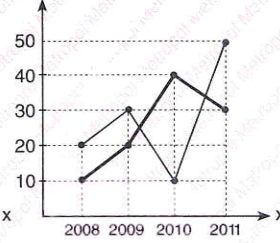
4.



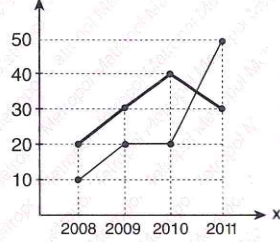
A) y



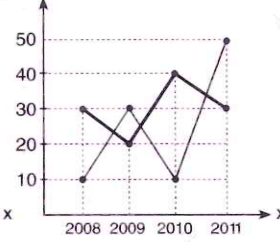
B) y



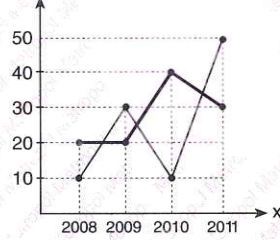
C) y



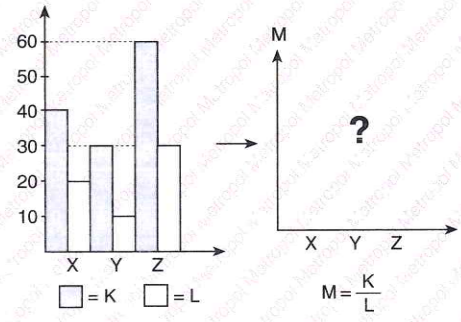
D) y



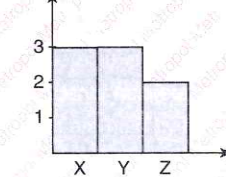
E) y



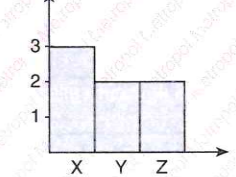
5.



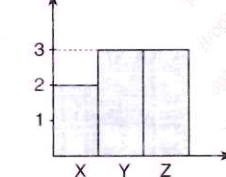
A) M



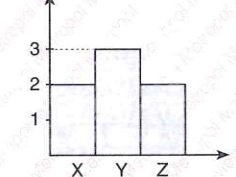
B) M



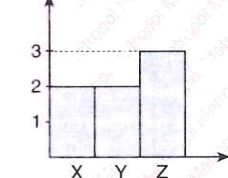
C) M



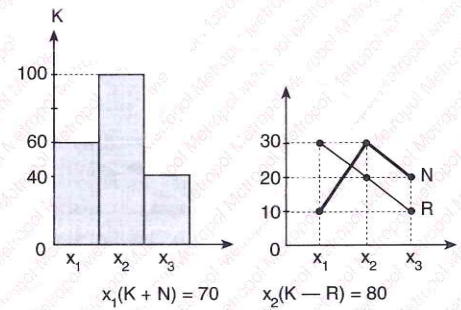
D) M



E) M



6.



$$x_1(K + N) = 70$$

$$x_2(K - R) = 80$$

$$\Rightarrow x_1(K - N) + x_2(K + R) + x_3(K + N) = ?$$

A) 200

B) 210

C) 220

D) 230

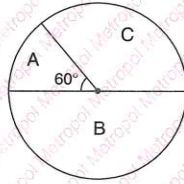
E) 240



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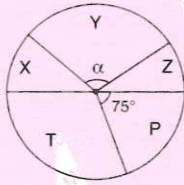
1	B	3	B	5	D
2	E	4	E	6	D

1. $C = 2 \cdot A$
 $\Rightarrow A ? B ? C$



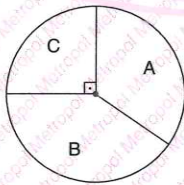
- A) $A < B < C$ B) $A < C < B$ C) $C < A < B$
 D) $B > A > C$ E) $A = C < B$

2. $T + P = x + y + z = 180^\circ$
 $x + z = P \Rightarrow \alpha = ?$



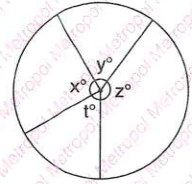
- A) 65° B) 75° C) 85° D) 95° E) 105°

3. $A + C = 210^\circ$
 $B - A = x^\circ$
 $\Rightarrow x^\circ = ?$



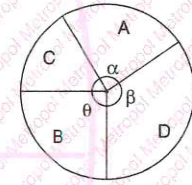
- A) 10° B) 20° C) 30° D) 40° E) 50°

4. $t = 40^\circ$,
 $z + t = 200^\circ$,
 $y + z = 210^\circ$
 $\Rightarrow x = ?$



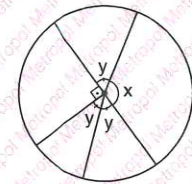
- A) 150° B) 130° C) 110° D) 90° E) 70°

5. $A + B = C$
 $A = B$,
 $\alpha + \theta = 120^\circ$
 $\Rightarrow \beta = ?$



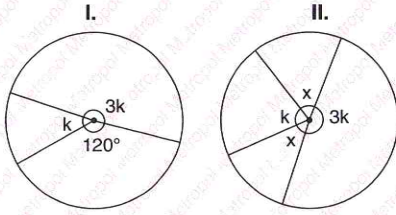
- A) 200° B) 180° C) 160° D) 140° E) 120°

6. $x = 2y \Rightarrow x^\circ = ?$



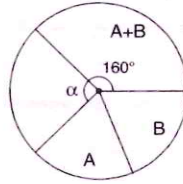
- A) 84° B) 90° C) 108° D) 124° E) 132°

7.

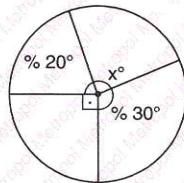


$$\Rightarrow x = ?$$

- A) $k/2$ B) k C) $2k$ D) $3k$ E) $4k$

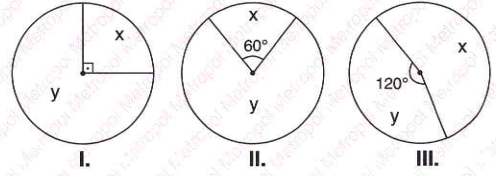
8. $\Rightarrow \alpha = ?$ 

- A) 30° B) 35° C) 40° D) 45° E) 50°

9. $\Rightarrow x = ?$ 

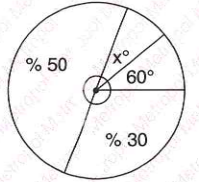
- A) 36° B) 72° C) 90° D) 108° E) 126°

10.



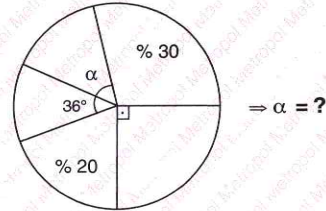
$$z = \frac{x}{y} \Rightarrow z_I + z_{II} + z_{III} = ?$$

- A) $\frac{9}{5}$ B) 2 C) $\frac{34}{15}$ D) $\frac{38}{15}$ E) $\frac{14}{5}$

11. $\Rightarrow x = ?$ 

- A) 8° B) 12° C) 16° D) 18° E) 24°

12.



$$\Rightarrow \alpha = ?$$

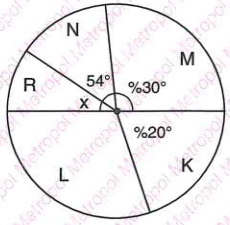
- A) 36° B) 42° C) 48° D) 54° E) 64°



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

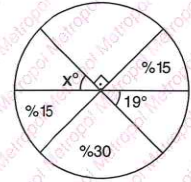
1.



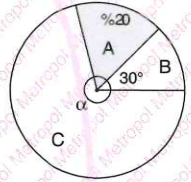
$$R + N + M = L + K$$

$$\Rightarrow x = ?$$

- A) 18° B) 24° C) 32° D) 36° E) 40°

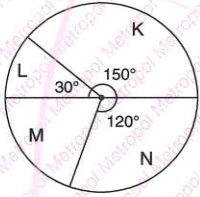
4. $\Rightarrow x^\circ = ?$ 

- A) 25° B) 30° C) 35° D) 40° E) 45°

5. $\Rightarrow \alpha = ?$ 

- A) 252° B) 254° C) 258° D) 260° E) 262°

2.

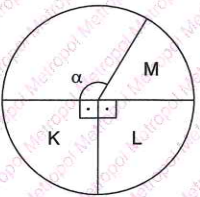


$$K + L + M + N = \% 100$$

$$\Rightarrow K - M = \% ?$$

- A) 15° B) 25° C) 30° D) 35° E) 40°

3.

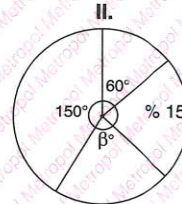
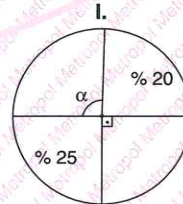


$$K + L + M = \% 70$$

$$\Rightarrow \alpha = \% ?$$

- A) 80° B) 90° C) 100° D) 108° E) 120°

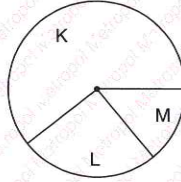
6.



$$\Rightarrow \alpha + \beta = ?$$

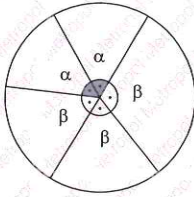
- A) 198° B) 200° C) 202° D) 204° E) 206°

7. $K = 3L = 6M \Rightarrow$
 $\frac{K}{6} + \frac{L}{4} + \frac{M}{2} = ?$



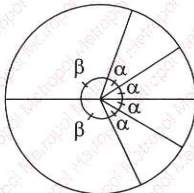
- A) 50° B) 60° C) 70° D) 80° E) 90°

8. $\alpha + \beta = 140$
 $\Rightarrow \frac{\alpha}{\beta} = ?$



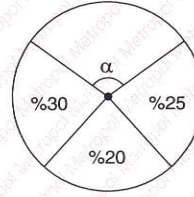
- A) $\frac{1}{2}$ B) $\frac{3}{4}$ C) 1 D) $\frac{5}{4}$ E) $\frac{3}{2}$

9. $\beta = 2\alpha$
 $\Rightarrow \alpha = \%?$



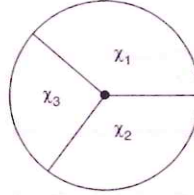
- A) 10 B) 12,5 C) 16 D) 20 E) 25

10. $\Rightarrow \alpha = ?$



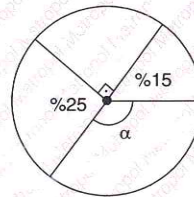
- A) 60° B) 75° C) 80° D) 90° E) 95°

11. $\chi_1 + 20^\circ = \chi_2 = \chi_3 - 20^\circ$
 $\Rightarrow \chi_1 = ?$



- A) 90° B) 100° C) 110° D) 120° E) 130°

12. $\Rightarrow \alpha = ?$



- A) 90° B) 100° C) 120° D) 126° E) 140°



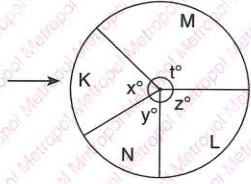
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1	A	3	D	5	C	7	D	9	B	11	B
2	B	4	C	6	D	8	B	10	D	12	D

1.

K	L	M	N
%15	%25	%40	%20

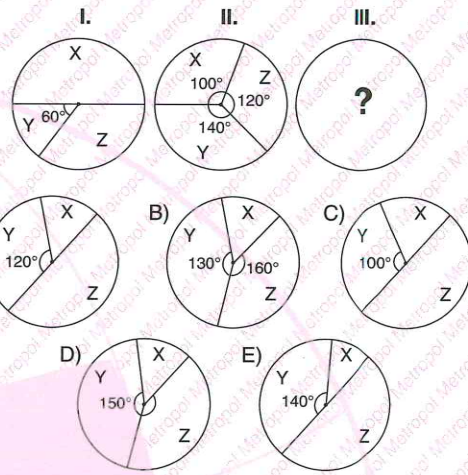
$$\Rightarrow 2x^\circ + y^\circ - z^\circ = ?$$



- A) 70° B) 80° C) 90° D) 100° E) 110°

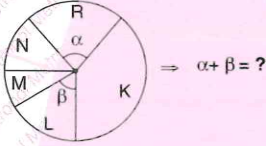
4.

X	Y	Z
I 3	1	2
II 5	7	6
III 4	8	12



2.

K	L	M	N	R
80	40	10	20	30

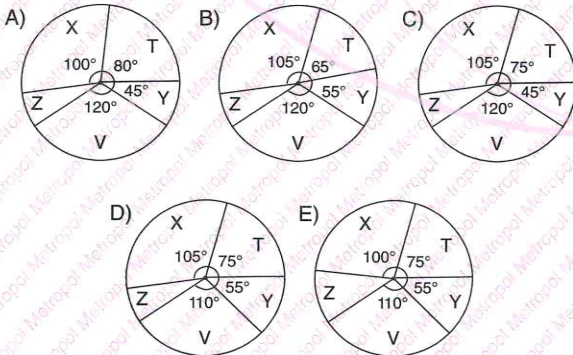
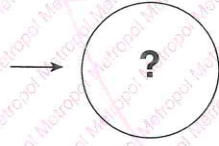


$$\Rightarrow \alpha + \beta = ?$$

- A) 80 B) 100 C) 120 D) 140 E) 160

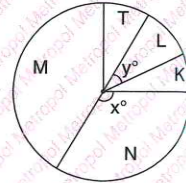
3.

X	Y	Z	T	V
7	3	1	5	8



5.

K	L	M	N	T
%10	15	35	30	10

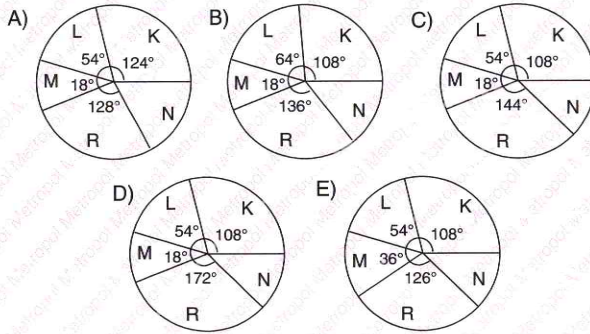
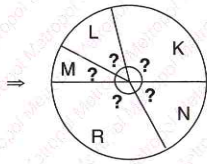


$$\Rightarrow x^\circ + y^\circ = ?$$

- A) 108 B) 123 C) 144 D) 162 E) 180

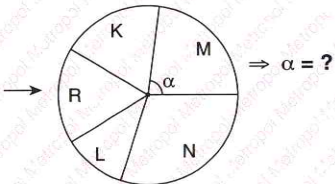
6.

K	L	M	N	R
12	6	2	4	16



7.

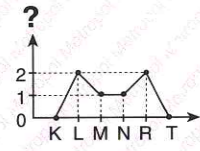
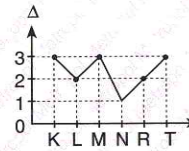
K	21
L	15
M	24
N	36
R	12



- A) 40 B) 50 C) 70 D) 80 E) 120

8.

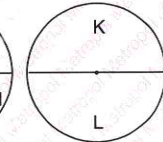
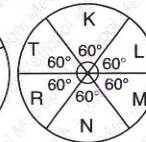
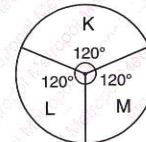
K	L	M	N	R	T
Δ	□	□	●	Δ	Δ
○	●	Δ	□	Δ	○
★	Δ	★	★	□	○
Δ	□	Δ	★	■	○
■	★	Δ	Δ	★	Δ
Δ	Δ	★	○	□	Δ



- A) ■ B) ○ C) □ D) ● E) ★

9.

I	II	III	IV	V	VI	VII
K	N	N	K	L	L	K
L	L	K	L	K	K	L
M	K	L	M	N	K	K
M	M	K	N	N	L	L
K	N	M	R	L	K	L
L	K	L	T	M	M	K



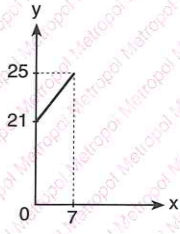
- A) II B) III C) V D) VI E) VII



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

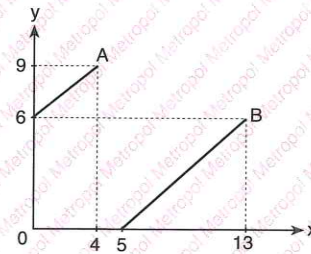
1.



$$x = 49 \Rightarrow y = ?$$

- A) 45 B) 46 C) 47 D) 48 E) 49

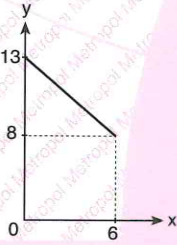
4.



$$\begin{aligned} x = 16 &\Rightarrow A_y = A \\ y = 24 &\Rightarrow B_x = B \\ \Rightarrow A + B &= ? \end{aligned}$$

- A) 24 B) 35 C) 47 D) 55 E) 75

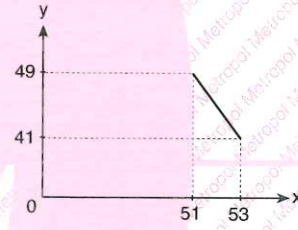
2.



$$x = 42 \Rightarrow y = ?$$

- A) -22 B) -21 C) -20 D) -19 E) -18

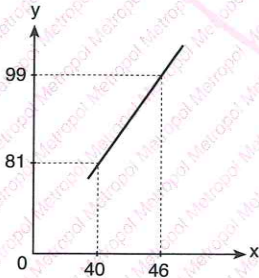
5.



$$\begin{aligned} x = 63 \\ \Rightarrow y = ? \end{aligned}$$

- A) 1 B) 2 C) 3 D) 4 E) 5

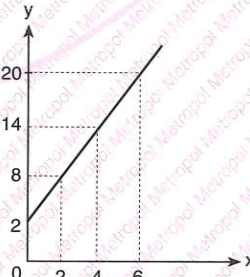
3.



$$y = 45 \Rightarrow x = ?$$

- A) 28 B) 26 C) 24 D) 22 E) 20

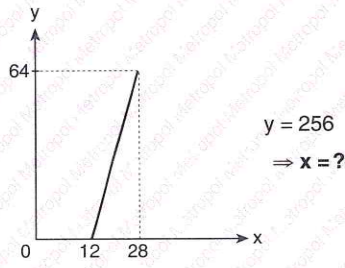
6.



$$\begin{aligned} x = 28 \\ \Rightarrow y = ? \end{aligned}$$

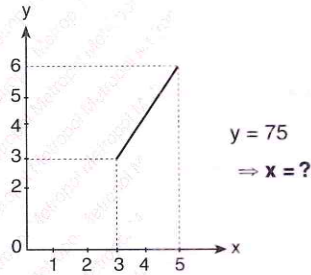
- A) 80 B) 82 C) 84 D) 86 E) 88

7.



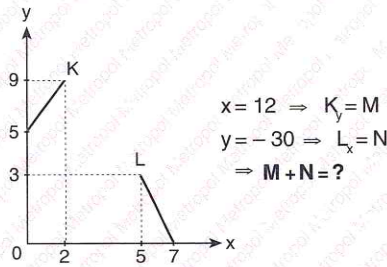
- A) 64 B) 68 C) 70 D) 74 E) 76

8.



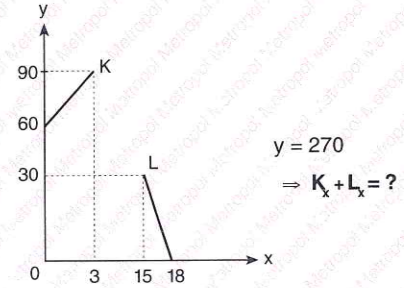
- A) 50 B) 51 C) 52 D) 53 E) 54

9.



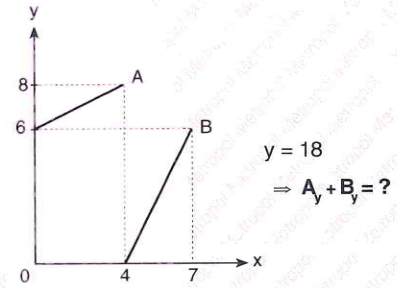
- A) 53 B) 54 C) 55 D) 56 E) 57

10.



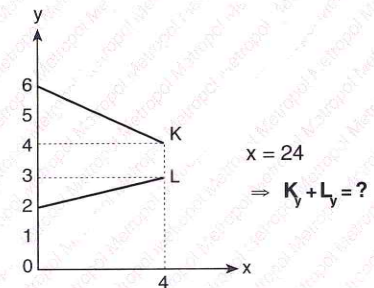
- A) 12 B) 11 C) 10 D) 9 E) 8

11.



- A) 34 B) 35 C) 36 D) 37 E) 38

12.



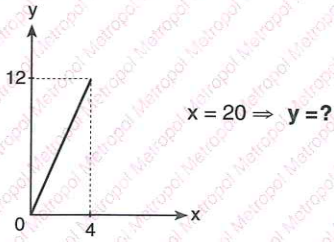
- A) -4 B) -2 C) 0 D) 2 E) 4



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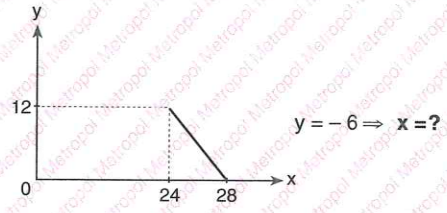
1	E	3	A	5	A	7	E	9	D	11	D
2	A	4	D	6	D	8	B	10	A	12	D

1.



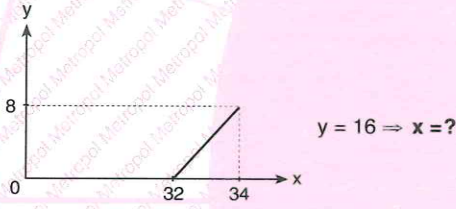
- A) 48 B) 52 C) 56 D) 60 E) 64

4.



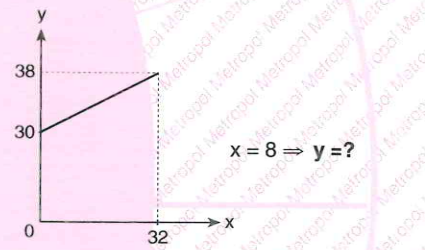
- A) 26 B) 27 C) 28 D) 29 E) 30

2.



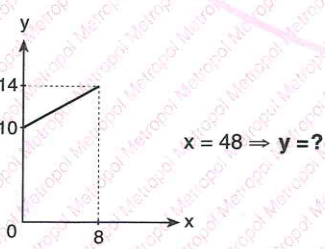
- A) 32 B) 33 C) 34 D) 35 E) 36

5.



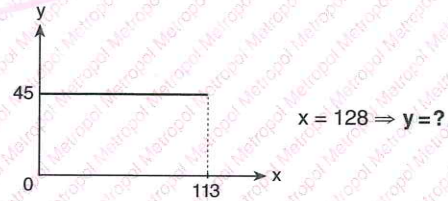
- A) 28 B) 29 C) 30 D) 31 E) 32

3.



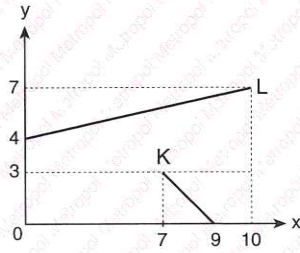
- A) 30 B) 31 C) 32 D) 33 E) 34

6.



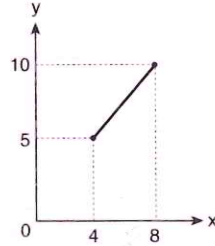
- A) 96 B) 84 C) 63 D) 45 E) 32

7. I. $x = 13 \Rightarrow K_y = M$
 II. $x = 30 \Rightarrow L_y = N$
 $\Rightarrow M + N = ?$



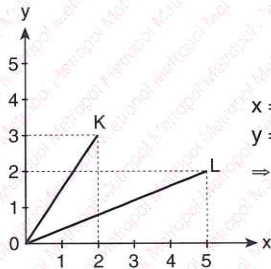
- A) -6 B) -2 C) 4 D) 7 E) 13

8. $x = 40 \Rightarrow y = K$,
 $y = 35 \Rightarrow x = L$
 $\Rightarrow K + L = ?$



- A) 74 B) 76 C) 78 D) 80 E) 82

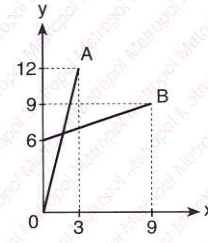
9.



$x = 6 \Rightarrow K_y = r$
 $y = 8 \Rightarrow L_x = v$
 $\Rightarrow v + r = ?$

- A) 25 B) 27 C) 29 D) 31 E) 33

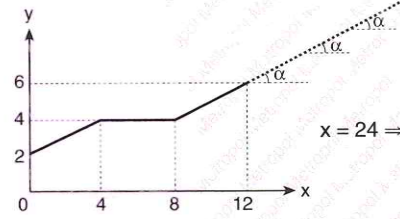
10.



$x = 18 \Rightarrow A_y = \blacktriangle$
 $y = 27 \Rightarrow B_x = \blacksquare$
 $\Rightarrow \blacktriangle + \blacksquare = ?$

- A) 134 B) 135 C) 136 D) 137 E) 138

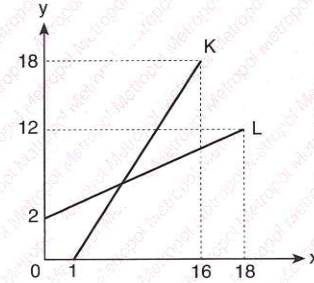
11.



$x = 24 \Rightarrow y = ?$

- A) 8 B) 10 C) 12 D) 14 E) 16

12.



$y = 36 \Rightarrow K_x = F$
 $x = 54 \Rightarrow L_y = E$
 $\Rightarrow F + E = ?$

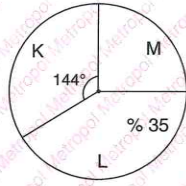
- A) 81 B) 72 C) 63 D) 54 E) 45



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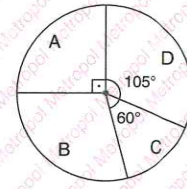
1	D	3	E	5	E	7	D	9	C	11	C
2	E	4	E	6	D	8	C	10	B	12	C

1. $K + L + M = 1440$
 $\Rightarrow L - M = ?$



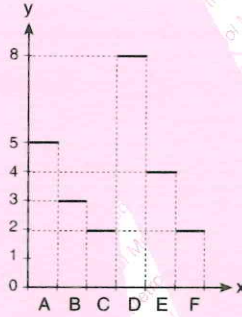
- A) 142 B) 144 C) 146 D) 148 E) 150

4. $\Rightarrow A : B : C : D = ?$



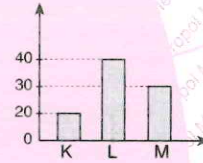
- A) 5 : 7 : 4 : 5
 B) 6 : 7 : 4 : 7
 C) 7 : 6 : 3 : 7
 D) 6 : 7 : 4 : 6
 E) 4 : 5 : 3 : 4

2. $A + B + C + D + E + F = 288^\circ$
 $\Rightarrow C = ?$



- A) 18 B) 20 C) 24 D) 26 E) 28

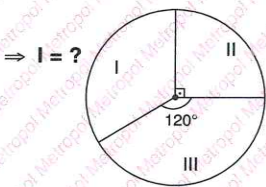
- 5.



$K + L + M = 360$
 $\Rightarrow M - K = ?$

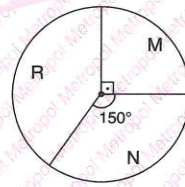
- A) 10 B) 20 C) 40 D) 60 E) 80

3. $I + II + III = 696$



- A) 288 B) 290 C) 292 D) 294 E) 296

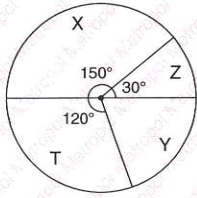
- 6.



$M + N + R = 156$
 $\Rightarrow R = ?$

- A) 26 B) 39 C) 52 D) 65 E) 78

7.



$$X : Y : Z : T \Rightarrow ?$$

A) 5 : 3 : 1 : 4

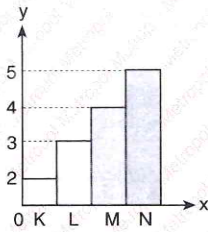
B) 4 : 2 : 1 : 3

C) 5 : 2 : 1 : 4

D) 4 : 3 : 2 : 1

E) 3 : 1 : 2 : 4

8.



$$K + L + M + N = 5600$$

$$\Rightarrow K + M - N = ?$$

A) 200

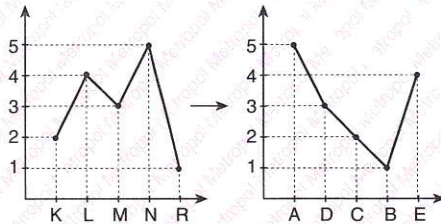
B) 300

C) 400

D) 500

E) 600

9.



$$E = L \Rightarrow D = ?$$

A) R

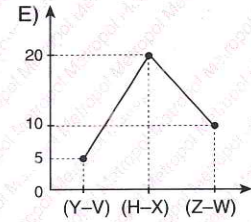
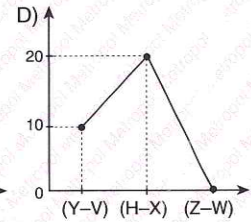
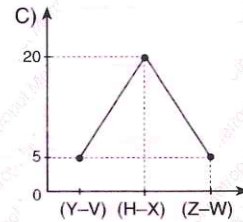
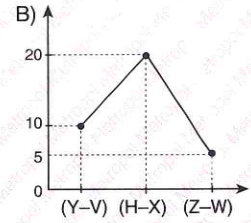
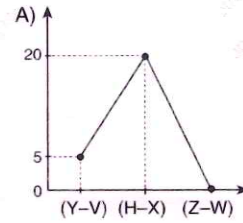
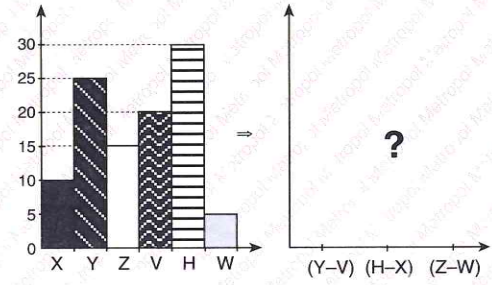
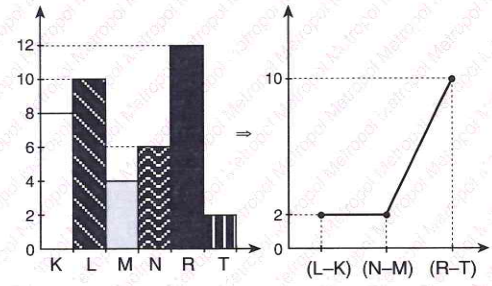
B) M

C) L

D) K

E) N

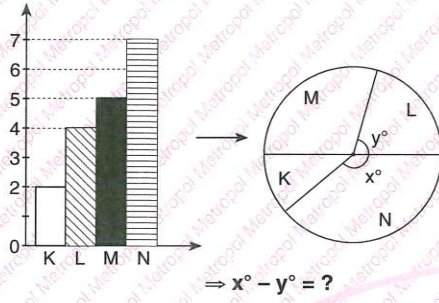
10.



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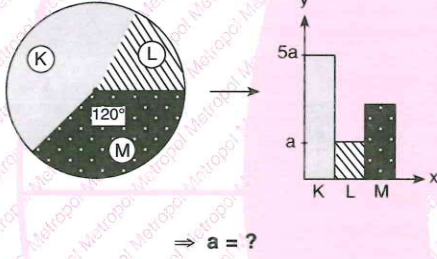
1	B	3	B	5	C	7	C	9	E	11	
2	C	4	B	6	C	8	C	10	E	12	

1.



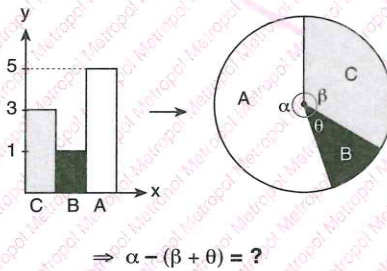
- A) 20° B) 40° C) 60° D) 80° E) 100°

2.



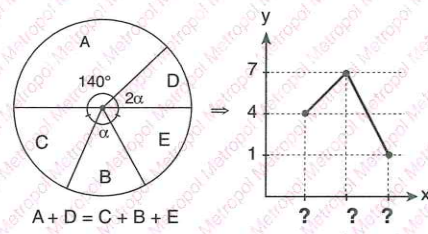
- A) 30° B) 40° C) 50° D) 60° E) 70°

3.



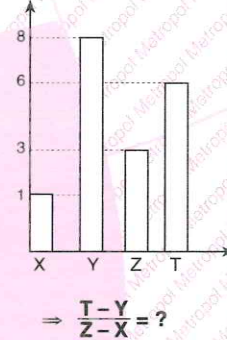
- A) 10° B) 20° C) 30° D) 40° E) 50°

4.



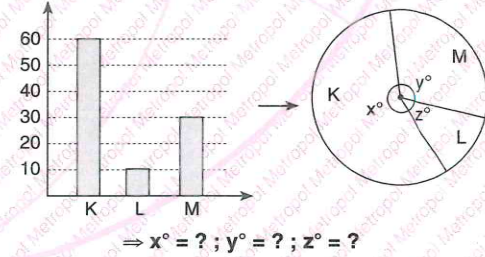
- A) A, B, C B) A, C, B C) B, C, A
D) C, A, B E) C, B, A

5.



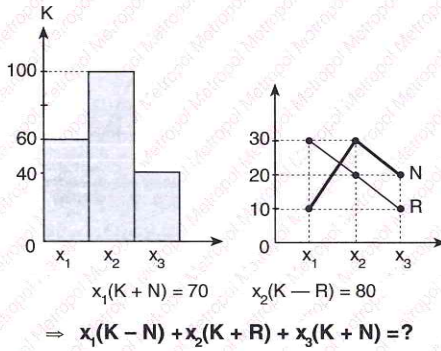
- A) 1° B) 2° C) $7/2^\circ$ D) $8/3^\circ$ E) 4°

6.



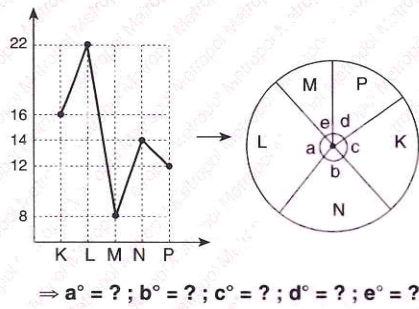
- | x° | y° | z° |
|----------------|-------------|-------------|
| A) 150° | 30° | 180° |
| B) 144° | 36° | 180° |
| C) 216° | 108° | 36° |
| D) 36° | 216° | 108° |
| E) 216° | 144° | 36° |

7.



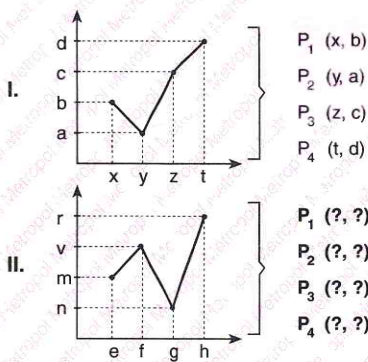
- A) 200 B) 210 C) 220 D) 230 E) 240

8.



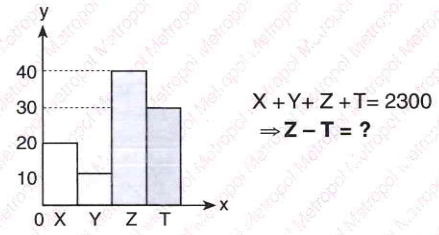
	a°	b°	c°	d°	e°
A)	110	70	80	60	40
B)	70	80	110	40	60
C)	60	40	110	80	70
D)	70	110	60	80	70
E)	110	70	80	60	90

9.



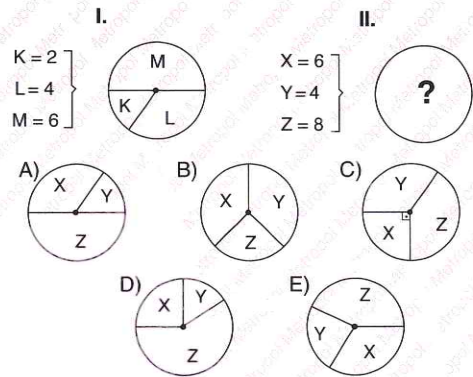
P_1	P_2	P_3	P_4
A) (e, n)	(f, m)	(g, v)	(h, r)
B) (e, m)	(f, v)	(g, r)	(h, n)
C) (e, m)	(f, v)	(g, n)	(h, r)
D) (e, r)	(f, k)	(g, m)	(h, n)
E) (e, m)	(f, n)	(g, v)	(h, r)

10.

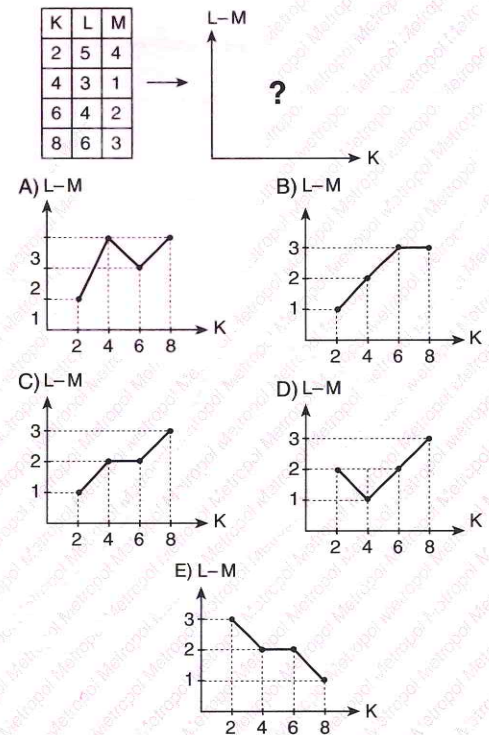


- A) 220 B) 230 C) 240 D) 250 E) 260

11.



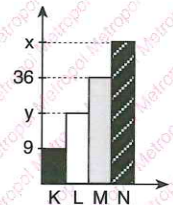
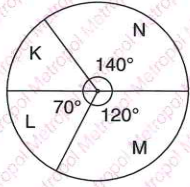
12.



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

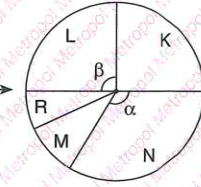
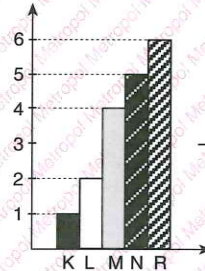
1.



$$\Rightarrow x - y = ?$$

- A) 20 B) 21 C) 22 D) 23 E) 24

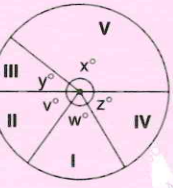
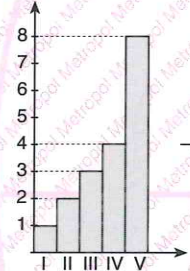
4.



$$\Rightarrow \alpha + \beta = ?$$

- A) 120 B) 140 C) 160 D) 180 E) 220

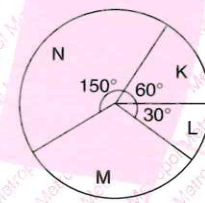
2.



$$\Rightarrow z^\circ + w^\circ = ?$$

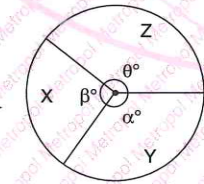
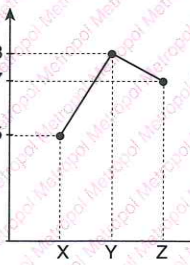
- A) 60° B) 80° C) 100° D) 120° E) 140°

5.



$$\begin{aligned} \Rightarrow K &= ? \\ \Rightarrow L &= ? \\ \Rightarrow M &= ? \\ \Rightarrow N &= ? \end{aligned}$$

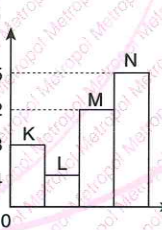
3.



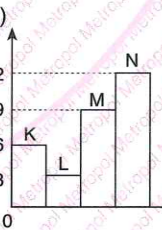
$$\Rightarrow \beta = ?$$

- A) 80° B) 90° C) 100° D) 110° E) 120°

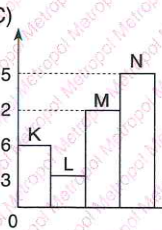
A)



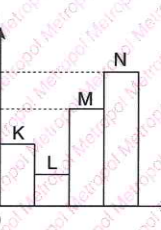
B)



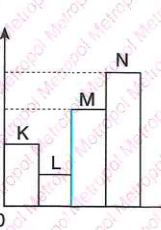
C)



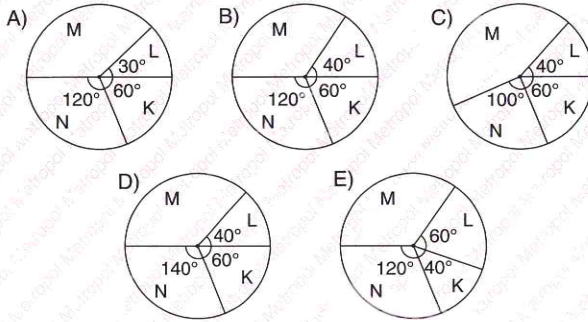
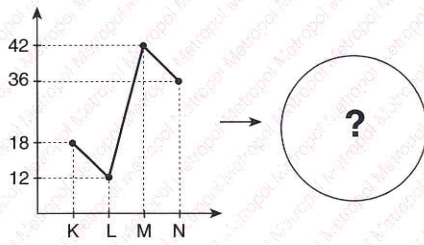
D)



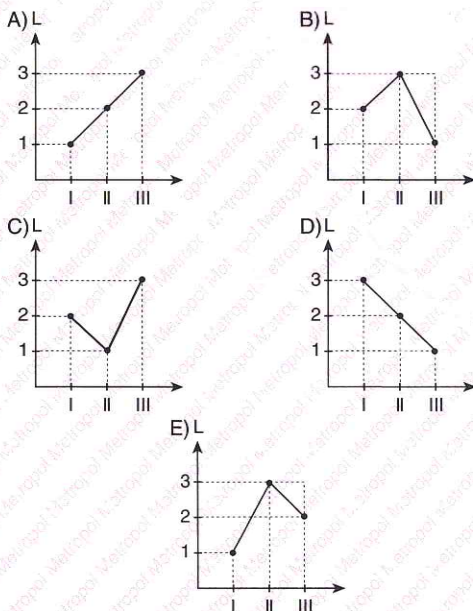
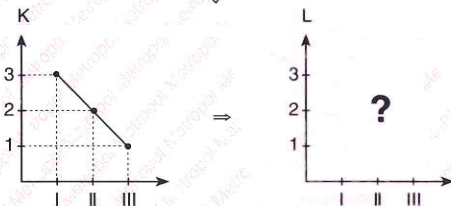
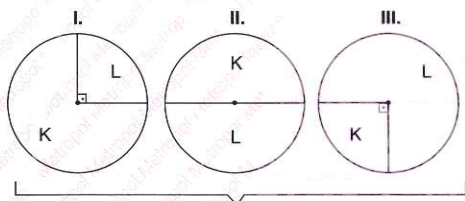
E)



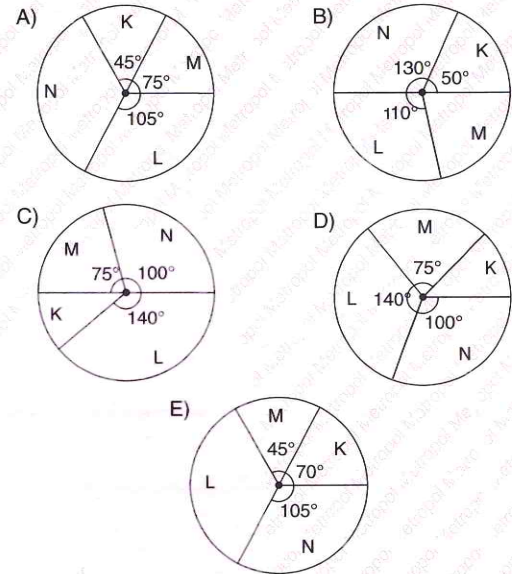
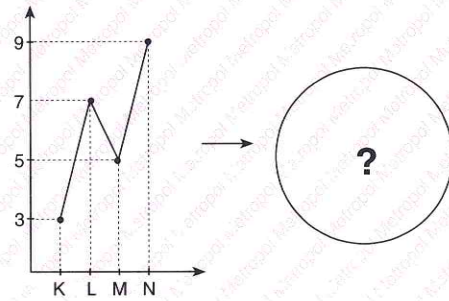
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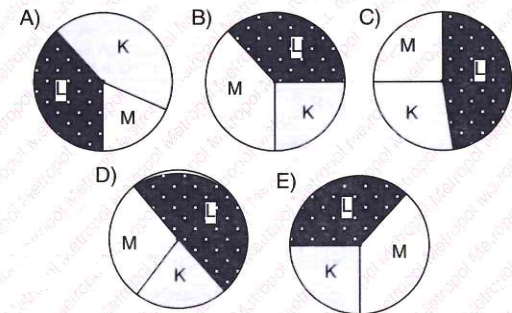
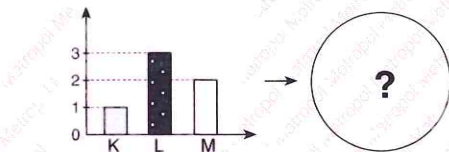
7.



8.



9.

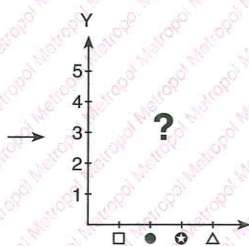


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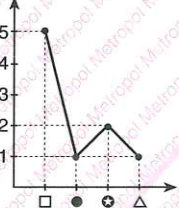
1	B	3	B	5	C	7	A	9	D	11	
2	C	4	B	6	B	8	A	10		12	

1.

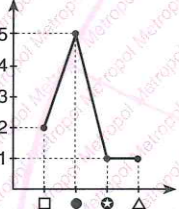
	X	Y	Z	K
△	2	5	3	4
□	4	1	3	2
●	1	2	5	3
⊙	1	1	3	5



A) Y



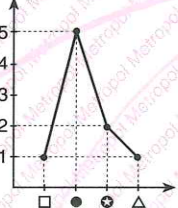
C) Y



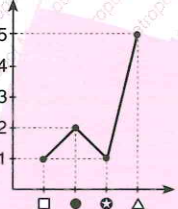
E) Y



B) Y

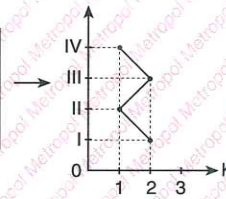


D) Y



2.

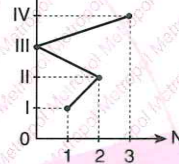
I	K	K	N	M	M
II	K	L	M	M	L
III	N	K	N	M	K
IV	N	K	N	N	M



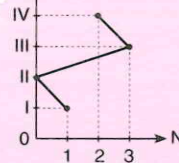
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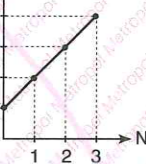
A) Y



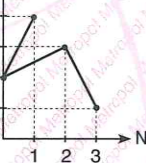
C) Y



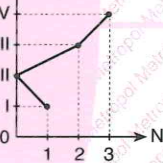
B) Y



D) Y

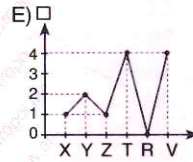
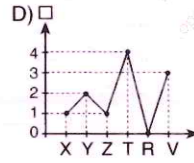
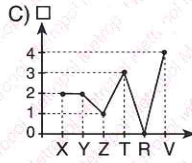
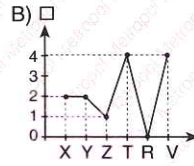
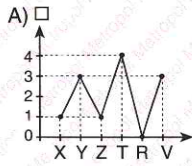


E) Y



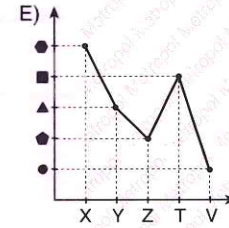
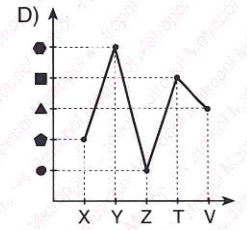
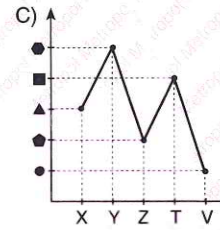
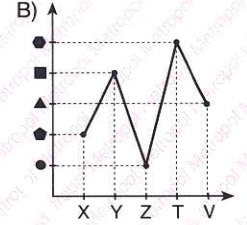
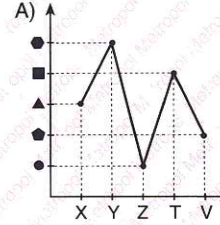
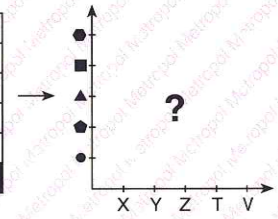
3.

X	Y	Z	T	R	V
△	●	●	□	●	□
△	△	△	●	△	□
●	□	●	□	●	△
△	□	●	△	△	□
□	●	△	△	△	□
●	△	□	□	△	●



4.

X	Y	Z	T	V
●	■	■	■	■
▲	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■



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1	D	3	E
2	E	4	A

BÖLÜM 9 CHAPTER

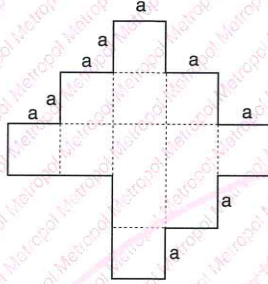
ÇEVRE VE ALAN PERIMETER AND AREA

Bölüm / Chapter 9

Çevre ve Alan Hesaplama / Perimeter and Area Calculating

Test 1

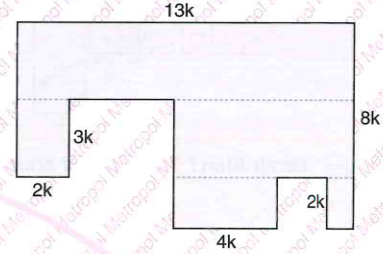
1.



⇒ Çevre / The Perimeter = ? a

- A) 16
- B) 18
- C) 20
- D) 22
- E) 24

3.

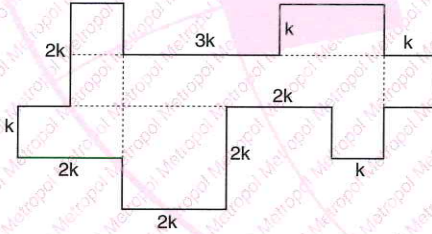


⇒ Çevre / The Perimeter = ? k

- A) 50
- B) 52
- C) 54
- D) 56
- E) 58

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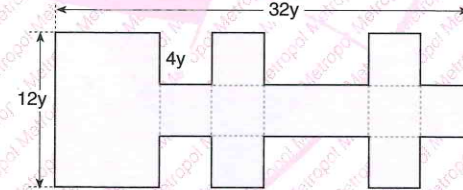
2.



⇒ Çevre / The Perimeter = ? k

- A) 22
- B) 24
- C) 26
- D) 28
- E) 30

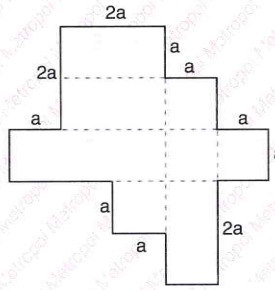
4.



⇒ Çevre / The Perimeter = ? y

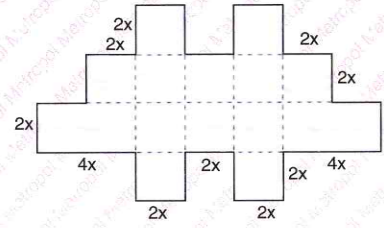
- A) 112
- B) 114
- C) 116
- D) 118
- E) 120

5.

⇒ Taralı Alan / The shaded area = ? a^2

- A) 12
B) 13
C) 14
D) 15
E) 16

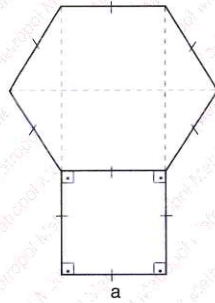
7.

⇒ Taralı Alan / The shaded area = ? x^2

- A) 48
B) 56
C) 64
D) 72
E) 96

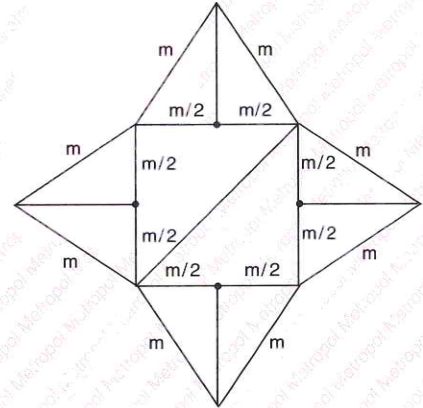
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6.

⇒ Taralı Alan / The shaded area = ? a^2

- A) $\frac{2\sqrt{3}}{4}$ B) $\frac{2\sqrt{3}+2}{3}$ C) $\frac{3\sqrt{3}+2}{4}$
D) $\frac{\sqrt{3}+4}{4}$ E) $\frac{3\sqrt{3}+2}{2}$

8.

⇒ Taralı Alan / The shaded area = ? m^2

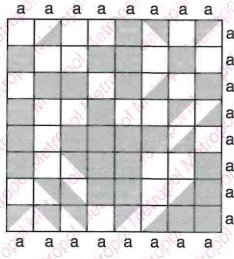
- A) $\sqrt{3} + 1$ B) $\frac{\sqrt{3}+2}{2}$ C) $\frac{\sqrt{3}+1}{2}$
D) $\frac{2\sqrt{3}+1}{2}$ E) $\frac{\sqrt{3}+2}{4}$



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

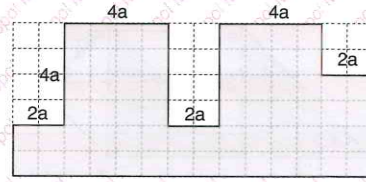
1.



⇒ Taralı Alan / The shaded area = ? a^2

- A) 30
- B) 31
- C) 32
- D) 33
- E) 34

3.

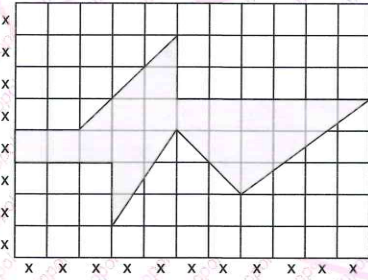


⇒ Taralı Alan / The shaded area = ? a^2

- A) 58
- B) 60
- C) 62
- D) 64
- E) 66

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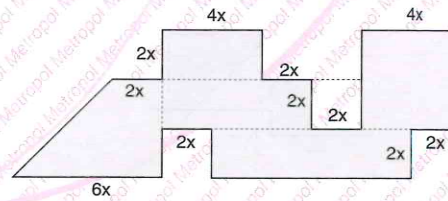
2.



⇒ Taralı Alan / The shaded area = ? x^2

- A) 19,5
- B) 20
- C) 20,5
- D) 21
- E) 21,5

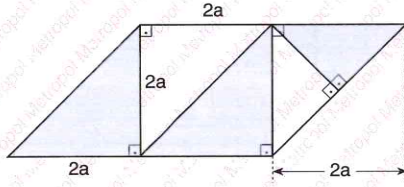
4.



⇒ Taralı Alan / The shaded area = ? x^2

- A) 60
- B) 62
- C) 64
- D) 66
- E) 68

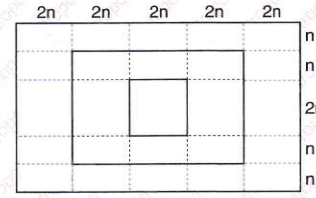
5.



⇒ Taralı Alan / The shaded area = ? a^2

- A) 2
B) 4
C) 5
D) 6
E) 7

7.

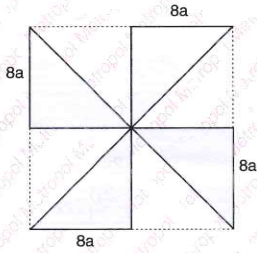


⇒ Taralı Alan / The shaded area = ? n^2

- A) 36 B) 38 C) 40 D) 42 E) 44

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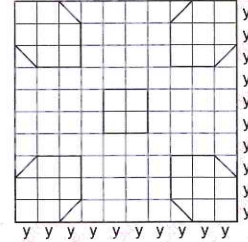
6.



⇒ Taralı Alan / The shaded area = ? a^2

- A) 96
B) 128
C) 144
D) 172
E) 196

8.



⇒ Taralı Alan / The shaded area = ? y^2

- A) 56
B) 60
C) 64
D) 68
E) 72



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