

İÇİNDEKİLER

1. Bölüm	Şifreler	1 - 24
2. Bölüm	Sayılar	25 - 60
3. Bölüm	İşlemler	61 - 110
4. Bölüm	Sayı Dizileri	111 - 134
5. Bölüm	Sayı Şekil İlişkileri	135 - 184
6. Bölüm	Tablolar	185 - 236
7. Bölüm	Şekil Bağıntıları	237 - 302
8. Bölüm	Grafikler	303 - 320
9. Bölüm	Çevre ve Alan	321 - 326
10. Bölüm	Tekrar Testleri	327 - 442

CONTENTS

Chapter 1	Passwords	1 – 24
Chapter 2	Numbers	25 – 60
Chapter 3	Operations	61 – 110
Chapter 4	Number Series	111 – 134
Chapter 5	Number Figure Relations	135 – 184
Chapter 6	Tables	185 – 236
Chapter 7	Figure Relations	237 – 302
Chapter 8	Graphs	303 – 320
Chapter 9	Perimeter and Area	321 – 326
Chapter 10	Review Tests	327 – 442

ŞİFRELER PASSWORDS

BÖLÜM 1 CHAPTER 1

Şifreler / Passwords

Test 1

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

2. AZİM
RAMİ
ELMA ⇒ İNCE = ?
İNCE
EMİR
A) 8429 B) 7658 C) 3927
D) 8273 E) 9172

3. KENE
MALİ
EKİN ⇒ EKİN = ?
LİMA
İNEK
A) 4627 B) 5413 C) 7262
D) 2746 E) 1354

4. TAKA
ŞATO
ŞAKA ⇒ ŞAKA = ?
CAKA
ATEŞ
A) 1234 B) 2161 C) 4161
D) 4125 E) 7161

5. ERER
ARTI
ATAR ⇒ ARTI = ?
ATKI
EKER
A) 9357 B) 9237 C) 6262
D) 9392 E) 6562

6. TAAM
MİRA
İTEK ⇒ KERT = ?
KERT
EMMİ
A) 3224 B) 5376 C) 6002
D) 2470 E) 4635

7. AKA
ELİ
İLK ⇒ ALİ = ?
İLE
ALİ
A) 684 B) 685 C) 757
D) 786 E) 486

10. KARA
MASA
MALA ⇒ MASA = ?
SILA
KALE
A) 7953 B) 2313 C) 4353
D) 4373 E) 2356

8. YALİ
YARİ
KATİ ⇒ YALİ = ?
YARA
KALE
A) 4987 B) 5986 C) 5937
D) 4929 E) 4927

11. SARIM
MISRA
SELAM ⇒ SELAM = ?
MERAM
RASİM
A) 12385 B) 36725 C) 54312
D) 56125 E) 32145

9. KEL
İYİ
YEL ⇒ KEL = ?
KAL
İKİ
A) 757 B) 468 C) 598
D) 747 E) 568

12. 468567
675686
567468 ⇒ 567468 = ?
123124
968407
A) ANKARA B) MEHMET C) TARKAN
D) BARTIN E) KANTAR

Yanıtlar / Answers

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

7. KEDİM
KIZDA
ZEKAN ⇒ DİNAR = ?
DİNAR
NEDİM
A) 70451 B) 90726 C) 45623
D) 78942 E) 60451

8. MELAMET
KEFALET
SELAMET ⇒ SEFARET = ?
SEFALET
SEFARET
A) 5460943 B) 8460743
C) 5460743 D) 1470143
E) 5470143

9. SOR
KES
SER ⇒ SER = ?
KOR
FES
A) 926 B) 845 C) 526
D) 945 E) 546

10. 9623485
4626931
6571348 ⇒ 4626931 = ?
6176435
4657261
A) KELEPİR B) PELİKAN C) ENTRİKA
D) KENTLER E) ERTEKİN

11. 496897
136408
792136 ⇒ 792343 = ?
792343
752136
A) PARLAK B) KANSER C) KONSER
D) SERPİL E) KANEPE

12. 924
429
324 ⇒ 324 = ?
415
475
A) KOÇ B) TOK C) ÇOK
D) KAŞ E) KUŞ

Yanıtlar / Answers

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

1. I II
 312 ○ ■ □
 213 ■ □ ○ ⇒ 123 = ?
 321 ○ □ ■
 123 ■ ○ □
 132 □ ■ ○
- A) ○ ■ □ B) ■ □ ○ C) □ ■ ○
 D) ○ □ ■ E) ■ ○ □

4. I II
 KAN ○ □ ■ ■
 KEKE ○ ■ ■ ■ ⇒ KANI = ?
 KINA ○ △ ○ △
 KENE ○ △ ■ △
 KANI ○ ■ ■ □
- A) ○ △ ○ △ B) ○ ■ ■ ■ C) ○ □ ■ ■
 D) ○ △ ■ △ E) ○ ■ ■ □

2. I II
 432 △ □ ■
 124 ■ △ ▲ ⇒ 134 = ?
 224 ■ □ ▲
 134 △ ▲ ■
 412 ▲ ▲ ■
- A) △ □ ■ B) ■ △ ▲ C) ▲ ▲ ■
 D) △ ▲ ■ E) ■ □ △

5. I II
 IRAK ▲ ■ △ ■
 ASIR ○ ■ △ □ ⇒ ASIR = ?
 SARI □ □ △ ■
 SIRA ■ ○ □ △
 KARA ○ □ △ ■
- A) ○ □ △ ■ B) □ △ ■ ▲ C) ○ ■ △ □
 D) ■ ○ □ △ E) ▲ ■ △ ■

3. I II
 597 △ ■ □
 179 ○ □ ■ ⇒ 1375 = ?
 174 □ ▲ ○
 731 ○ □ ■
 539 △ ▲ ■
- A) ○ ▲ □ △ B) ▲ ○ ■ △ C) ■ ▲ □ △
 D) △ ▲ □ ○ E) ○ ■ △ ▲

6. I II
 VISA ■ □ ■ ▲
 MİVA △ ▲ ■ □ ⇒ MUSAVİ = ?
 MAVİ ■ ▲ ■ □
 SAMİ △ ○ △ □
 SUSİ ■ □ △ ▲
- A) ■ ○ △ ▲ ■ □ B) ○ □ ■ △ △ △
 C) △ ▲ ■ □ ■ ○ D) ■ ○ □ ■ ▲ △
 E) ■ ○ △ ■ ▲ □

7. I II
 KEL ↓ n ↓
 TUT ↑ n ↑ ⇒ TEKEK = ?
 GÜG ↓ d c
 KÜL u n c
 GEL u d c

- A) ↑ u ↓ u c B) ↑ d ↓ d c
 C) ↑ d u d c D) ↓ c ↑ c c
 E) ↑ n ↓ n u

8. 92140
 14680
 19280 ⇒ 19280 = ?
 08190
 29390
 A) HAZAN B) SERİN C) SAHİN
 D) AHSEN E) NİSAN

9. 63734
 71819
 38676 ⇒ 63734 = ?
 93532
 82854
 A) 69598 B) 39790 C) 51413
 D) 94656 E) 40478

10. PULCU
 KOLAY
 YOLCU ⇒ KOLAY = ?
 YAPAY
 KAPAK
 A) 79897 B) 13497 C) 19891
 D) 86456 E) 73456

11. ÇAŞ
 TAK
 TAÇ ⇒ ÇAT = ?
 TAP
 ÇAT
 A) 231 B) 132 C) 134
 D) 135 E) 236

12. YAS
 NES
 YAB ⇒ YAS = ?
 LOG
 NOB
 A) 378 B) 928 C) 048
 D) 021 E) 371

Yanıtlar / Answers

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

1.

5	4	7	5
1	7	5	8
1	8	5	7

 $\Rightarrow ?$

A)

$\rightarrow$	$=$	$-$	$\rightarrow$
$\leftarrow$	$=$	$-$	$\rightarrow$
$-$	$+$	$-$	$=$

B)

$\circ$	$-$	$\triangle$	$+$
$\triangle$	$+$	$\rightarrow$	$\leftarrow$
$-$	$\rightarrow$	$-$	$\rightarrow$

C)

$\circ$	$\triangle$	$+$	$\circ$
$-$	$+$	$\circ$	$\rightarrow$
$-$	$\leftarrow$	$\circ$	$+$

D)

$\triangle$	∇	$+$	$\triangle$
$-$	$+$	$\triangle$	$\rightarrow$
$-$	$\rightarrow$	$\triangle$	$+$

E)

$\triangle$	$\circ$	$-$	$\triangle$
$+$	$-$	$\triangle$	$\rightarrow$
$-$	$\rightarrow$	$\triangle$	$+$

2. $\wedge \blacksquare \blacktriangle \wedge$ $\vee \blacksquare \triangleright \vee \Rightarrow \vee \blacksquare \triangleright \vee = ?$ $\cap \triangle \triangleright \cap$ $\bullet \wedge \blacktriangle \bullet$ $\circ \div \bullet \circ$

A) 4394 B) 5025 C) 7327 D) 8098 E) 6186

4.

 $\triangle \circ \square \triangle$ $\circ \triangle \circ \square$ $\square \triangle \circ \triangle$ $\triangle \circ \triangle \square$ $\circ \square \square \triangle$

A) 2141

B) 4221

C) 4142

D) 1421

E) 1412

5.

$\blacksquare$	$\triangle$	$\bullet$	$\blacksquare$
$\circ$	$\blacktriangle$	$\triangle$	$\blacksquare$
$\diamond$	$\triangle$	$\bullet$	$\blacksquare$

 $\Rightarrow ?$

A) CENK

B) FARK

C) ÇARK

CÖNK

ODAK

TALK

DENK

TALK

FARK

D) DANK

E) KALK

FARK

OCAK

ÇARK

TALK

3.

 $\square \neq \square \circ$ $\triangle \div \circ \triangle$ $\triangle \square \neq \square \Rightarrow \triangle \square \neq \square = ?$ $\cap \circ + \circ$ $\triangle * \square \circ$

A) 1838 B) 6252 C) 6386 D) 2528 E) 6528

6.

ETEK

KORU

 $\Rightarrow$

KORU = ?

ÇETE

SAKA

AKAR

A) $\triangle \wedge \blacktriangle \wedge$ B) $\blacksquare + \circ :$ C) $\wedge \blacktriangle \wedge \blacksquare$ D) $\vee \neq \blacksquare \neq$ E) $\neq \blacksquare \neq \circ$

7. YAPI
KIYI
KAZI ⇒ KAZI = ?
YAZI
SARI
A) ▲△+● B) □△○● C) ■△+●
D) ■●▲● E) ▲△:●

10. ALP
AND
NAL ⇒ NAL = ?
CAN
PAN
A) ★↑△ B) ↑○★ C) ↓↑△
D) △↑○ E) ↑△□

8. KERE
KARA
ARSA ⇒ ARSA = ?
SARA
FARE
A) △x□△ B) ○v xv C) +△xv
D) □△x△ E) ○△x△

11. 82394
52364
12314 ⇒ 52364 = ?
12394
74364
A) KORKU B) BURGU C) SORGU
D) ZORLU E) KORLU

9. ÇIKA
AKÇA
ÇAKI ⇒ AÇIK = ?
UÇAK
AÇIK
A) □↓↑△ B) △↑□△ C) □△↑↓
D) △□↓↑ E) +□△↑

12. MESİR
TESİR
SEFİR ⇒ TESİR = ?
KESİR
TEKİR
A) 37612 B) 47612 C) 57612
D) 37412 E) 67812

Yanıtlar / Answers

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

1. I II
ELEK □ ■ □ ○
KEDİ ☆ △ ☆ △
İLİK △ ■ △ ○ ⇒ EKİLDİ = ?
DEDE ■ △ ○ △
LEKE ○ △ ☆ □
- A) △ ○ □ ■ ☆ □
B) △ ■ ○ ☆ □ ○
C) ☆ □ ○ ■ □ ○
D) ■ ○ △ ☆ △ □
E) ○ △ ■ □ ■ ☆

2.

□	★	□
★	□	○
○	★	□

 ⇒ ?

- A) 132 B) 313 C) 313
221 233 132
231 121 213
D) 321 E) 221
132 132
231 313

3. RENK }
KARK }
KART }
TANK }
ARTI }
1238 2518
6256
5436 6251
⇒ KENAR = ?
- A) 64325 B) 62435 C) 36215
D) 31256 E) 13258

4. ASKIM } 15324 41315
KASIM } 31532
KASKI } 59413 31524
SUMAK } ⇒ MUSKA = ?
MAKAS }
- A) 41526 B) 14325 C) 49531
D) 39215 E) 13524

5. JÖLE
MİLE
KASA ⇒ KALE = ?
KALE
MANA
A) 9542 B) 1342 C) 6707
D) 6742 E) 1787

6. HARE
HANE
PAYE ⇒ KARE = ?
KARE
VADE
- A)

■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■

B)

■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■

C)

■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■

D)

■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■

E)

■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■

7. BARIŞ
GELİŞ
DİDİN ⇒ KONUS = ?
KONUŞ
ŞAŞIR

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

8. ÇALIŞ = BÜĞCJ
⇒ BAŞAR = ?
A) KULMN B) SMNMV C) ZÜNSI
D) YÜJÜI E) YUMUN

9. KELEB }
KELBE }
SELEZ }
KELEM }
SELED }
⇒ KELEBEK = ?

- A) 1474241 B) 8474548
C) 8474948 D) 1475484
E) 5474845

10. AZMİ
SİNE
ASİN ⇒ ANAV = ?
İVİK
ANAV
A) 9197 B) 5251 C) 5692
D) 5389 E) 6924

11. ADAMAK }
OLUMLU }
OKULLU } ⇒ OLUMLU = ?
İLİMLİ }
DOLUNCA }
A) 987687 B) 282682 C) 343631
D) 498753 E) 917887

12. GİRNE
ENGİN
FİYAT ⇒ FİYAT = ?
YATIR
YENGE
A) 21078 B) 93210 C) 45635
D) 24564 E) 63854

Yanıtlar / Answers

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

1. TAKI
KAYA
YAKI $\Rightarrow$ YAKI = ?
AKIL
YAKA
A) 4957 B) 9578 C) 5949
D) 4959 E) 3957

4. ÇAKIR
SATIR
BAKIR $\Rightarrow$ KATIR = ?
KATIR
TAKIR
A) 82145 B) 72345 C) 12345
D) 62345 E) 32145

2. KEP
TET
PEK $\Rightarrow$ TEK = ?
KET
TEK
A) 203 B) 101 C) 201
D) 102 E) 302

5. SAKI
AKAR
SAIK $\Rightarrow$ KİRA = ?
KİRA
RAKS
A) 4231 B) 1352 C) 5214
D) 2125 E) 4213

3. EMİN
NAME
MASA $\Rightarrow$ MASA = ?
NANE
ÇINI
A) 5141 B) 6787 C) 8189
D) 9578 E) 8159

6. DEMİR
NADİR
SELEN $\Rightarrow$ NADİR = ?
MELEK
SAKAR
A) 03137 B) 63028 C) 94748
D) 54628 E) 93135

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

8. TAMA
AMİR
LAMA ⇒ MANİ = ?
İRAT
MANİ
A) 2967 B) 4929 C) 7390
D) 0929 E) 9273

9. İSTİMAL
İSTEKLİ
İSTİHZA ⇒ İSTEKLİ = ?
İSKEMLE
İSKELET
A) 5734205 B) 5724043 C) 5724804
D) 5735619 E) 5735890

10. SEYREK
KIVRIK
KÖSELE ⇒ LEVREK = ?
LEVREK
LEYLEK
A) 163761 B) 594791 C) 125909
D) 093791 E) 094091

11. EYYAM
KELLİ
KISSA ⇒ KISSA = ?
ÇİMME
SAÇIK
A) 23091 B) 19223 C) 65534
D) 16778 E) 08446

12. ÇARE
KÖLE
İCAT ⇒ EBAT = ?
EBAT
MANİ
A) KCLM B) FGÇÇ C) DCEF
D) MBCÇ E) IHJF

Yanıtlar / Answers

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

1.

KEK
SAT
NAS

 $\Rightarrow ?$

- A) 4 V 4 B) 4 V 4 C) $\square V \diamond$
 $\wedge \cap \Delta$ $\wedge \cap \Delta$ $\wedge \cup \Delta$
 $\wedge \cap \bigcirc$ $\cup \cap \wedge$ $\cup \cup \wedge$
- D) 4 V 4 E) 4 V $\diamond$
 $\wedge \cap \Delta$ $\wedge \cap \Delta$
 $\cup \cap \wedge$ $\cup \cap \wedge$

4. ASAR

SIRA

TASA $\Rightarrow$ ASAR = ?

ATAR

ASIR

- A) $\square \downarrow \Delta \downarrow$ B) $\Delta \otimes \bigcirc \downarrow$ C) $\downarrow \square \downarrow \bigcirc$
D) $\downarrow \Delta \downarrow \bigcirc$ E) $\downarrow \Delta \otimes \bigcirc$

2.

KELP

EKLE

RENK $\Rightarrow$ RENK = ?

PELE

LEKE

- A) $\blacktriangle \uparrow \bigcirc \downarrow$ B) $\otimes \uparrow \square \uparrow$ C) $\downarrow \uparrow \square \otimes$
D) $\square \uparrow \downarrow \uparrow$ E) $\uparrow \downarrow \square \uparrow$

5. 79894

59892

91849 $\Rightarrow$ 63963 = ?

72857

63963

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

3.

SEK

TER

YER $\Rightarrow$ TER = ?

REY

KES

- A) $\blacktriangle \downarrow \otimes$ B) $\Delta \downarrow \square$ C) $\square \downarrow \uparrow$
D) $\otimes \downarrow \blacktriangle$ E) $\uparrow \downarrow \square$

6. 74590

92616

12378 $\Rightarrow$ 50962 = ?

38754

50962

- A) 40698 B) 31245 C) 25460
D) 78321 E) 68979

7. LOL
MAG
TUT $\Rightarrow$ MAG = ?
ŞUD
SUS
A) 863 B) 404 C) 252
D) 951 E) 757

8. ÇEM
LIB
LAH $\Rightarrow$ LIB = ?
ENE
MIÇ
A) 752 B) 545 C) 301
D) 207 E) 368

9. ŞEK
REH
YEM $\Rightarrow$ REH = ?
KEŞ
MEY
A) 641 B) 942 C) 249
D) 047 E) 146

10. ŞOL
ALE
RİB $\Rightarrow$ ALE = ?
KAZ
ELİ
A) 832 B) 547 C) 093
D) 169 E) 490

11. İKİ
LİS
UNO $\Rightarrow$ UNO = ?
NÜG
OLA
A) 529 B) 876 C) 651
D) 743 E) 202

12. REMSE
REMEK
LEMEC $\Rightarrow$ REMSE = ?
REMEŞ
LEMET
A) 26364 B) 96368 C) 26361
D) 26356 E) 96367

Yanıtlar / Answers

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

1. İŞTE
AŞAN
İTEN $\Rightarrow$ İTEN = ?
ATEŞ
ŞİŞE
A) ●▲☆□ B) ■▲☆○ C) ■□▲☆
D) ●□●○ E) □□☆

4. □△□●
★■△■
△■●□ $\Rightarrow$ △■●□ = ?
■★■●
□△■★
A) AKAN B) SANI C) İSİN
D) KASA E) ISAK

2. 8574
6475
8765 $\Rightarrow$ 8765 = ?
5487
5648
A) ■★○□ B) □■●○ C) □●★■
D) ★○●■ E) ■□○●

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

3. □○■△
○●□■
□●△★ $\Rightarrow$ □●△★ = ?
●★△■
△■△●
A) 1-6-5-3 B) 6-4-1-5 C) 4-2-3-5
D) 1-4-3-2 E) 3-5-3-4

6. TAVAN
KAPAN
KOVAN $\Rightarrow$ KOVAN = ?
TAVLA
SAPAN
A) →▲■▲▽ B) ▼▲☆▲▽ C) ○▲■▲▽
D) ○●☆▲▽ E) ▼▲☆◆▲

7. 68452
63935
13573 $\Rightarrow$ 73925 = ?
35739
73925
A) SEMER B) DEMİR C) PERDE
D) ERDEM E) SABRİ

8. 1918
4301
1652 $\Rightarrow$ 4301 = ?
7657
4163
A) BOĞA B) İLGI C) BALO
D) ARAÇ E) ALGI

9. CICI
AMMA
İMAM $\Rightarrow$ İMAM = ?
MAMA
CAMİ
A) 3434 B) 3254 C) 5252
D) 2552 E) 4525

10. ZYUN
ATON
TOAZ $\Rightarrow$ NAZİ = ?
OZAN
NAZİ
A) 9873 B) 3492 C) 4153
D) 1549 E) 5943

11. TEPKİ
RESET
RASİT $\Rightarrow$ TESTİ = ?
TESTİ
TESİR
A) 78583 B) 38219 C) 38539
D) 76543 E) 38597

12. BAHAR
HIŞİM
KUMAŞ $\Rightarrow$ KUMAŞ = ?
KAMIŞ
BAKIM
A) 37271 B) 25856 C) 97658
D) 37956 E) 94678

Yanıtlar / Answers

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

1. 127943

521503

123452 $\Rightarrow$ 236272 = ?

212582

236272

A) AMASYA

B) MARDİN

C) MANİSA

D) SAMSUN

E) ANKARA

4. KUCAK

SOKAK

KAPAK $\Rightarrow$ KAPAK = ?

KAÇAK

SAÇAK

A) 42321

B) 47121

C) 12821

D) 12321

E) 15621

2. 34641

12746

34346 $\Rightarrow$ 14325 = ?

12345

14325

A) TARAK

B) KATİP

C) KİTAP

D) KİBAR

E) TATAR

5. SAKLAMA

BEKLEME

BEREKET $\Rightarrow$ KERAMET = ?

KERAMET

BELLEME

A) 0177161

B) 8537565

C) 3125614

D) 0121314

E) 0137161

3. KABA

SOPA

KUPA $\Rightarrow$ KUPA = ?

SAPA

POTA

A) 1474

B) 5634

C) 1234

D) 5434

E) 3684

6. HOP

MOD

TOP $\Rightarrow$ TOK = ?

KOP

TOK

A) 526

B) 423

C) 723

D) 123

E) 124

7. 14894
30809
10203 $\Rightarrow$ 30809 = ?
34567
76943
A) BAFRA B) KÜFÜR C) BÜYÜK
D) MERAK E) KALEM

10. ÜSSÜ
KÜME
ESİR $\Rightarrow$ KÜME = ?
TREN
MERT
A) 2156 B) 4774 C) 9512
D) 5731 E) 8495

8. 523
423
425 $\Rightarrow$ 425 = ?
123
325
A) SAL B) LAM C) BAL
D) MAL E) SAM

11. 32434
26834
86243 $\Rightarrow$ 23830 = ?
23830
53071
A) HESAP B) HASAR C) BARIŞ
D) SEHPA E) AHPAP

9. 70
50
09 $\Rightarrow$ 07 = ?
30
07
A) FA B) MA C) SA
D) AF E) AL

12. MARKİZ
DERZİM
MARCİN $\Rightarrow$ MARKİZ = ?
KANKAN
NERMİN
A) 403951 B) 123456 C) 603156
D) 123759 E) 726726

Yanıtlar / Answers

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

1. KÜLLÜ
CÜPPE
TAKKE ⇒ CÜPPE = ?
HOPPA
TEKKE
A) 21337 B) 27337 C) 65441
D) 38008 E) 88447

4. ŞOK
LIK
ŞAT ⇒ KEÇ = ?
KAB
KEÇ
A) 382 B) 217 C) 258
D) 902 E) 314

2. POJ
HAP
PAH ⇒ POJ = ?
POB
TAB
A) 615 B) 376 C) 673
D) 619 E) 475

5. MUY
ZET
MUK ⇒ MEC = ?
MEC
MEZ
A) 725 B) 738 C) 620
D) 726 E) 731

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

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

7. İNED
EMİK
ENİS ⇒ KİNE = ?
KİNE
LİME
A) 0543 B) 2593 C) 5936
D) 3452 E) 3957

8. 523
123
526 ⇒ 623 = ?
423
623
A) SEL B) SEK C) TEL
D) YEL E) KEL

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

10. TAVUK
TÖVBE ⇒ TÖVBE = ?
TAVAR
TÖRBE
TABUR
A) 37192 B) 34692 C) 38681
D) 38605 E) 38901

11. CBCBC
FDFDF
ESESE ⇒ ESESE = ?
BABAB
DCDCD
A) 51515 B) 65656 C) 42424
D) 30303 E) 13131

12. HİLAL
SİLÂH
DELLİL ⇒ LAHİT = ?
HİTİT
LAHİT
A) 93425 B) 42531 C) 53131
D) 76434 E) 53424

Yanıtlar / Answers

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

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

4. CEB
KEB
KAL } 937 837 567
LAB } 965 769
BAK } ⇒ BAK = ?
A) 965 B) 837 C) 567
D) 769 E) 937

2. 82194
15627
65358 ⇒ 82194 = ?
12754
12094
A) BARUT B) DURUM C) BUDAR
D) MABET E) BAGET

5. RIDVAN = TKGAÇP
ŞABAN = UÇDÇP
⇒ ŞADIRVAN = ?
A) UÇDÇPTG B) UÇTAGKAÇP
C) UÇGKTAÇP D) UÇĞİTAÇPT
E) UÇTGTAÇP

3. KALE
RAKI }
AKIL }
ALIK }
KARA }
4328 5341
4353
3412 3214
⇒ ARALIK = ?
A) 545341 B) 151234 C) 414328
D) 353214 E) 252412

6. KALEM = LCOHR
⇒ KUMAŞ = ?
A) MYOCT B) ŞAMÜK C) LORCT
D) MNODY E) LVÖDV

7. SAĞLIK = VEKPMÖ
⇒ KIRMIZI = ?
A) ÖMÜRMDM B) GFMIFSE C) ABDCBKB
D) ÖLÜPLEL E) ĞEMİETE

8. YERSEL
SİTER
TERHİS ⇒ NİSTER = ?
SİHHAT
NİSTER
A) 786345 B) 045749 C) 687345
D) 345187 E) 781123

9. SER
KES
SOR ⇒ KOR = ?
FES
KOR
A) 926 B) 845 C) 526
D) 546 E) 945

10. FES
SEL
TEL ⇒ FES = ?
DİZ
FİL
A) 675 B) 975 C) 479
D) 415 E) 812

11. 1796
9786
6863 ⇒ 9786 = ?
7826
4756
A) SOBA B) AYAR C) BOYA
D) KOVA E) OYMA

12. 4301
1918
1652 ⇒ 4301 = ?
7657
4163
A) BALO B) ALGI C) İLGI
D) BOĞA E) ARAÇ

Yanıtlar / Answers

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

1. PAZAR

SİTEM

ASTAR ⇒ SİTEM = ?

TESİR

KİRAZ

A) 70546

B) 91816

C) 34618

D) 15716

E) 54702

4. KIŞA

ASAT

KILI ⇒ ULUS = ?

RAKA

ULUS

A) 0743

B) 3536

C) 0717

D) 9303

E) 8185

2. DOST

VEDA

STOK ⇒ VEDA = ?

LALE

ALEV

A) 6419

B) 5352

C) 7263

D) 1948

E) 3527

5. KATI ⇒ 4381

EREN ⇒ 2527

EMEL ⇒ 2920

MERAK ⇒ ?

A) 34724

B) 92584

C) 92357

D) 92534

E) 95204

3. SANSAR

HASRET

HASSAS ⇒ HASRET = ?

MANTAR

HANTAL

A) 476471

B) 376579

C) 276571

D) 374185

E) 374474

6.

8 2 1

2 1 8

1 8 2

⇒ ?

A) BAC

B) CBA

C) ACB

D) BCC

E) ACB

CBC

BAC

CBA

ACA

ABA

ACB

BCA

BAC

BCA

CAB

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

8. NİNES
NİLEG
ZİNEĐ ⇒ NİLEG = ?
NİGDE
ZİMET
A) 84856 B) 24853 C) 24051
D) 84735 E) 84957

9. KALAS
KELES
KAYAK ⇒ KALAS = ?
KANYO
KALAM
A) 45178 B) 45359 C) 45754
D) 45352 E) 46362

10. KAPAK
KUMAP
KALGO ⇒ KALAY = ?
PAKAL
KALAY
A) 90206 B) 40902 C) 95804
D) 90409 E) 90231

11. AFAY
İÇİF
UYUK ⇒ İVİS = ?
İVİS
İYİK
A) 8964 B) 2721 C) 5153
D) 8183 E) 8687

12. İŞTAH
AFTOS
TUHAF ⇒ FAHİŞ = ?
HAFİF
FAHİŞ
A) 39124 B) 24591 C) 19323
D) 57193 E) 93568

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.
In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

1.
$$\begin{array}{r} \square \bullet \triangle \\ \triangle \bullet \square \\ \hline \bullet \blacksquare \star \end{array} \Rightarrow \blacksquare = ?$$

- A) 9
B) 7
C) 5
D) 3
E) 1

2.
$$\begin{array}{r} \triangle \triangle \\ \triangle \triangle \\ \hline 1 \triangle \bullet \\ + 1 \triangle 2 \\ \hline 1 \triangle 3 \bullet \end{array} \Rightarrow \triangle + \square + \bullet = ?$$

- A) 3
B) 6
C) 7
D) 9
E) 11

3.
$$\begin{array}{r} AB4 \\ + BA \\ \hline C10 \end{array} \Rightarrow C = ?$$

- A) 3
B) 5
C) 6
D) 7
E) 9

4.
$$\begin{array}{r} \square \square \square \\ \hline \square \end{array} + 56 = \square \square \square \Rightarrow \square \square = ?$$

- A) 23
B) 46
C) 53
D) 61
E) 85

5.
$$\begin{array}{r} K \\ + K \\ \hline N \end{array} \quad \begin{array}{r} K \\ \times K \\ \hline L \end{array} \quad \begin{array}{r} N \\ \times L \\ \hline MR \end{array} \Rightarrow \frac{K+N+L}{R+M} = ?$$

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

6.
$$\begin{array}{r} K \\ + 2 \\ \hline L \end{array} \quad \begin{array}{r} L \\ + 1 \\ \hline N \end{array} \quad \begin{array}{r} N \\ - 4 \\ \hline M \end{array} \Rightarrow \begin{array}{r} NKM \\ - KLN \\ \hline ??? \end{array}$$

- A) 123
B) 174
C) 258
D) 276
E) 308

7.
$$\begin{array}{r} abb \\ abb \\ + abb \\ \hline bc2 \end{array} \Rightarrow a+b+c=?$$

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

$b = 4$
 $c = 2$
 $a = 1$

8.
$$\begin{array}{r} AA \\ AB \\ BA \\ + BB \\ \hline 330 \end{array} \Rightarrow A+B=?$$

- A) 14
B) 15
C) 16
D) 17
E) 18

$22(A+B) = 330$
 $A+B = 15$

9.
$$\begin{array}{r} AB \\ BC \\ + CA \\ \hline 165 \end{array} \Rightarrow \max(ABC) = ?$$

- A) 852
B) 865
C) 945
D) 951
E) 960

$225 + 930 = 1155$

10.
$$\begin{array}{r} KL \\ LM \\ + K \\ \hline 11M \end{array} \Rightarrow \max(K \times L) = ?$$

- A) 9
B) 16
C) 21
D) 24
E) 25

$L + M + K = 11$
 $K + L = 10$

11.
$$\begin{array}{r} A7B \\ + CCB \\ \hline 60C \end{array} \Rightarrow A+B+C=?$$

- A) 8
B) 9
C) 10
D) 11
E) 12

$B = 6$
 $C = 2$
 $A = 3$

12.
$$\begin{array}{r} K \\ LM \\ + KML \\ \hline 4KL \end{array} \Rightarrow L=?$$

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

$K = 3$
 $L + M + K = 4$
 $L + M = 1$
 $K = 3$

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \begin{array}{r} 2B3 \\ \times A3 \\ \hline B86 \\ + B86 \\ \hline \dots \end{array} \Rightarrow A + B = ?$$

- A) 2
B) 3
C) 4
D) 6
E) 8

$$2. \begin{array}{r} 21B \\ \times AB \\ \hline B + 1 + 4 \\ + B + 4 \\ \hline 8 + 8 + 4 \end{array} \Rightarrow A + B = ?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

$$3. \begin{array}{r} AB \\ \times CD \\ \hline 02 \\ + 34 \\ \hline \dots \end{array} \Rightarrow A + B + C + D = ?$$

- A) 12
B) 14
C) 16
D) 18
E) 20

$$4. \begin{array}{r} B37A \\ \times 61 \\ \hline 8 \end{array} \Rightarrow A \times B = ?$$

- A) 54
B) 45
C) 36
D) 32
E) 28

$$5. \begin{array}{r} 10512a \\ \times 104b \\ \hline 1 \end{array} \Rightarrow a + b = ?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

$$6. \begin{array}{r} 7a72a9 \\ \times b \\ \hline 000 \end{array} \Rightarrow a \times b = ?$$

- A) 12
B) 15
C) 18
D) 24
E) 30

7.
$$\begin{array}{r} 345 \overline{) xy} \\ \underline{13} \\ 7 \end{array} \Rightarrow x + y = ?$$

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

8.
$$\begin{array}{r} 73X \\ - 4y5 \\ \hline 247 \end{array} \Rightarrow y - x = ?$$

- A) 3
B) 5
C) 6
D) 7
E) 8

9.
$$\begin{array}{r} KK \\ + LL \\ \hline 143 \end{array} \quad \begin{array}{r} KL \\ + LM \\ \hline 198 \end{array} \Rightarrow \begin{array}{r} MM \\ K \\ + L \\ \hline ?? \end{array}$$

- A) 66
B) 67
C) 68
D) 69
E) 70

10.
$$\begin{array}{r} K \\ L \\ + M \\ \hline 18 \end{array} \quad \begin{array}{r} L \\ L \\ + M \\ \hline 20 \end{array} \quad \begin{array}{r} K \\ K \\ + L \\ \hline 14 \end{array} \Rightarrow K^2 = ?$$

- A) 1
B) 4
C) 9
D) 16
E) 25

11.
$$\begin{array}{r} KL \\ + K \\ \hline KN \end{array} \quad \begin{array}{r} LK \\ + L \\ \hline LN \end{array} \quad \begin{array}{r} KN \\ + LN \\ \hline 84 \end{array} \Rightarrow (K + L) = ?$$

- A) 7
B) 10
C) 12
D) 15
E) 18

12.
$$\begin{array}{r} AAB \\ - BAA \\ \hline 297 \end{array} \Rightarrow A - B = ?$$

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

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işaretli ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} KKK \\ KKK \\ + LLL \\ \hline 1221 \end{array} \quad \begin{array}{r} KL \\ - LK \\ \hline 9 \end{array} \Rightarrow K \times L = ?$$

- A) 6
B) 9
C) 12
D) 15
E) 18

$$2. \quad \begin{array}{r} K \\ - L \\ \hline 3 \end{array} \quad \begin{array}{r} L \\ + 4 \\ \hline M \end{array} \quad \begin{array}{r} M \\ - 5 \\ \hline N \end{array} \Rightarrow \begin{array}{r} K \\ - N \\ \hline ? \end{array}$$

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

$$3. \quad \begin{array}{r} K \\ + M \\ \hline N \end{array} \quad \begin{array}{r} MM \\ + LL \\ \hline KK \end{array} \Rightarrow \begin{array}{r} N \\ - L \\ \hline ? \end{array}$$

- A) K + M
B) M - N
C) K + K
D) M + M
E) M - K

$$4. \quad \begin{array}{r} K \\ \times 6 \\ \hline RK \end{array} \quad \begin{array}{r} M \\ \times 3 \\ \hline LM \end{array} \Rightarrow \max(R + M) = ?$$

- A) 8
B) 9
C) 10
D) 11
E) 12

$$5. \quad \begin{array}{r} K \\ \times K \\ \hline L \end{array} \quad \begin{array}{r} N \\ \times N \\ \hline M \end{array} \quad \begin{array}{r} L \\ \times M \\ \hline NT \end{array} \Rightarrow T = ?$$

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

$$6. \quad \begin{array}{r} 1aab|b \\ 1a \\ \hline 00ab \\ - a4 \\ \hline 0a \end{array} \Rightarrow a + b = ?$$

- A) 6
B) 8
C) 10
D) 12
E) 15

$$\begin{array}{r}
 abc \\
 \times 2d \\
 \hline
 940 \\
 + 4e0 \\
 \hline
 5640
 \end{array}
 \Rightarrow d+e=?$$

- A) 2
B) 4
C) 7
D) 11
E) 13

$$\begin{array}{r}
 1ab \\
 \times c8 \\
 \hline
 992 \\
 + \dots \\
 \hline
 \dots 12
 \end{array}
 \Rightarrow a+b+c=?$$

- A) 6
B) 7
C) 8
D) 9
E) 10

$$\begin{array}{r}
 KK \\
 LL \\
 \hline
 MM
 \end{array}
 +
 \begin{array}{r}
 KK \\
 LL \\
 \hline
 MM
 \end{array}
 \Rightarrow K=?$$

- A) 4
B) 5
C) 6
D) 8
E) 9

$$\begin{array}{r}
 3a0 \overline{)3} \\
 \dots a03 \\
 \hline
 1
 \end{array}
 \Rightarrow a=?$$

- A) 0
B) 1
C) 3
D) 7
E) 10

$$\begin{array}{r}
 AB \\
 \times 3 \\
 \hline
 3D
 \end{array}
 =
 \begin{array}{r}
 3D \\
 BC \\
 \hline
 AB
 \end{array}
 \Rightarrow C=?$$

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

$$\begin{array}{r}
 aay \\
 \times y5 \\
 \hline
 560 \\
 + y y \dots \\
 \hline
 2800
 \end{array}
 \Rightarrow y+i=?$$

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

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} \text{LK} \\ - \text{L} \\ \hline 21 \end{array} \quad \begin{array}{r} \text{KKL} \\ - \text{LLK} \\ \hline \text{MON} \end{array} \Rightarrow N \times M = ?$$

- A) 9
B) 12
C) 18
D) 20
E) 24

$$2. \quad \begin{array}{r} \text{abc} \\ - \text{cba} \\ \hline 496 \end{array} \quad \begin{array}{r} \text{ac} \\ + \text{ca} \\ \hline 77 \end{array} \Rightarrow a = ?$$

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

$$3. \quad \begin{array}{r} \text{x0y001} \\ - \text{a} \\ \hline \text{b} \end{array} \Rightarrow a + b = ?$$

- A) 101
B) 1001
C) 10001
D) 1010
E) 10010

$$4. \quad \begin{array}{r} \text{AB} \\ \cdot \text{C} \\ \hline \text{D} \end{array} \quad \begin{array}{r} \text{EB} \\ \cdot \text{C-1} \\ \hline 0 \end{array} \Rightarrow A - B - E - D = ?$$

- A) 2
B) 1
C) $2D + 1$
D) $2B - C$
E) $2B + 1$

$$5. \quad \begin{array}{r} \text{K} \\ \text{L} \\ + \text{M} \\ \hline \text{N} \end{array} \Rightarrow K + M - N + L = ?$$

- A) -2
B) -1
C) 0
D) 1
E) 2

$$6. \quad \begin{array}{r} \text{XYZ} \\ \times 3A \\ \hline \dots \\ 435 \\ + \text{XYZ} \\ \hline 19140 \end{array} \Rightarrow (A + Z) - (X + Y) = ?$$

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

7.
$$\begin{array}{r} \text{XYX} \\ \times .7 \\ \hline .6.. \\ + 5.5 \\ \hline 8925 \end{array} \Rightarrow X+Y=?$$

- A) 7
B) 9
C) 11
D) 12
E) 15

10.
$$\begin{array}{r} 38. \\ \times .4 \\ \hline ...4 \\ + ...8 \\ \hline ab12c \end{array} \Rightarrow a+b+c=?$$

- A) 8
B) 9
C) 10
D) 11
E) 12

8.
$$\begin{array}{r} A \\ - a \\ \hline 8 \end{array} \quad \begin{array}{r} B \\ + b \\ \hline 7 \end{array} \quad \begin{array}{r} A \\ - B \\ \hline 4 \end{array} \Rightarrow a+b=?$$

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

11.
$$\begin{array}{r|l} 2A8 & B5 \\ \hline & 7 \\ - & \\ \hline & 3 \end{array} \Rightarrow A=?$$

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

9.
$$\begin{array}{r} A \\ - B \\ \hline C \end{array} \quad \begin{array}{r} B \\ + D \\ \hline A \end{array} \Rightarrow D=?$$

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

12.
$$\begin{array}{r} 346 \\ \times a8 \\ \hline b768 \\ + c46 \\ \hline \end{array} \Rightarrow a+b+c=?$$

- A) 2
B) 4
C) 5
D) 6
E) 7

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} L \\ + L \\ \hline KM \end{array} \quad \frac{KM}{N} = L \quad \Rightarrow \quad N = ?$$

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

$$2. \quad \begin{array}{r} AB4 \quad AB \\ \times x \\ \hline y \end{array} \quad \Rightarrow \quad \begin{array}{l} x \geq 10 \\ x + y = ? \end{array}$$

- A) 10
B) 11
C) 12
D) 13
E) 14

$$3. \quad \begin{array}{r} KL \\ KL \\ + KL \\ \hline ML8 \end{array} \quad \Rightarrow \quad M + L = ?$$

- A) 13
B) 12
C) 10
D) 9
E) 7

$$4. \quad \begin{array}{r} KL \\ \times LK \\ \hline \dots \\ + \dots \\ \hline K45L \end{array} \quad \begin{array}{r} K \\ \times L \\ \hline L \end{array} \quad \Rightarrow \quad L = ?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

$$5. \quad \begin{array}{r} KL \\ KL \\ + KL \\ \hline 1KK \end{array} \quad \Rightarrow \quad K + L = ?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

$$6. \quad \begin{array}{r} KLK \\ \times KN \\ \hline \dots \\ + 504 \\ \hline 6048 \end{array} \quad \Rightarrow \quad N = ?$$

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

$$7. \quad \begin{array}{r} K \\ + L \\ \hline M \end{array} \quad \begin{array}{r} M \\ + N \\ \hline KL \end{array} \Rightarrow N + K = ?$$

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

$$8. \quad \begin{array}{r} K \\ \times K \\ \hline LK \end{array} \quad \begin{array}{r} M \\ \times M \\ \hline NM \end{array} \quad \begin{array}{r} M \\ \times T \\ \hline LM \end{array} \Rightarrow T = ?$$

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

$$9. \quad \begin{array}{r} XX \\ YY \\ + ZZ \\ \hline 154 \end{array} \quad \begin{array}{r} XX \\ + YY \\ \hline ZZ \end{array} \Rightarrow X+Y = ?$$

- A) 6
B) 7
C) 8
D) 9
E) 10

$$10. \quad \begin{array}{r} ZYK \\ \times 7P \\ \hline \\ + 4396 \\ \hline 45844 \end{array} \Rightarrow P = ?$$

- A) 2
B) 3
C) 4
D) 8
E) 9

$$11. \quad \begin{array}{r} K4 \\ \times K \\ \hline KL \end{array} \quad \begin{array}{r} KLK \\ + K \\ \hline KL2 \end{array} \Rightarrow L = ?$$

- A) 8
B) 6
C) 5
D) 4
E) 2

$$12. \quad \begin{array}{r} KLM \\ 2M \\ \hline 2R5 \\ 22M \\ \hline 010 \end{array} \quad \begin{array}{r} 2M \\ NP \end{array} \Rightarrow K+L+M+N+P+R = ?$$

- A) 23
B) 25
C) 26
D) 28
E) 30

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

1.
$$\begin{array}{r} \text{KLM} \\ \times 319 \\ \hline \text{.....} \\ + 1554 \\ \hline \text{.....} \end{array} \Rightarrow \text{KLM} = ?$$

- A) 234
B) 326
C) 438
D) 518
E) 634

2.
$$\begin{array}{r} \text{AAA} \\ + \text{BBB} \\ \hline 1221 \end{array} \Rightarrow \max(A) = ?$$

- A) 10
B) 9
C) 8
D) 7
E) 6

3.
$$\begin{array}{r} \text{METRO} \\ + \text{ORTEM} \\ \hline 66666 \end{array} \Rightarrow M + E + T + R + O = ?$$

- A) 120
B) 142
C) 160
D) 360
E) 720

4.
$$\begin{array}{r} \text{K} \\ - \text{M} \\ \hline \text{N} \end{array} \quad \begin{array}{r} \text{M} \\ - \text{N} \\ \hline \text{L} \end{array} \quad \begin{array}{r} \text{M} \\ + \text{M} \\ \hline 14 \end{array} \Rightarrow \text{K} + \text{L} = ?$$

- A) 20
B) 18
C) 14
D) 12
E) 10

5.
$$\begin{array}{r} 2 \bullet \blacktriangle \\ + \bullet \blacktriangle 5 \\ \hline 953 \end{array} \Rightarrow \begin{array}{l} \bullet = ? \\ \blacktriangle = ? \end{array}$$

- A) 6 ; 7
B) 4 ; 8
C) 4 ; 6
D) 6 ; 8
E) 6 ; 9

6.
$$\begin{array}{r} \text{KKL} \\ + \text{KL} \\ \hline \text{MLM} \end{array} \Rightarrow \text{K} = ?$$

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

7.
$$\begin{array}{r} \text{KL} \\ \times \text{M7} \\ \hline 868 \\ + \dots \\ \hline \text{L...8} \end{array} \Rightarrow K+L+M=?$$

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

8.
$$\begin{array}{r} \text{KLM} \\ \times 3\text{N} \\ \hline \dots \\ + 1752 \\ \hline 21024 \end{array} \Rightarrow N=?$$

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

9.
$$\begin{array}{r} 342 \\ \times \text{KL} \\ \hline \dots 4 \\ + 684 \\ \hline \dots \end{array} \Rightarrow K+L=?$$

- A) 5
- B) 6
- C) 7
- D) 8
- E) 9

10.
$$\begin{array}{r} \text{AC} \\ \text{CB} \\ + \text{BA} \\ \hline \text{ABC} \end{array} \Rightarrow AB+AC=?$$

- A) 37
- B) 47
- C) 59
- D) 69
- E) 99

11.
$$\begin{array}{r} \text{ABC} \\ \times 4\text{D} \\ \hline \dots \dots \\ + 924 \\ \hline 10395 \end{array} \Rightarrow D=?$$

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

12.
$$\begin{array}{r} \text{ACB} \\ \times \text{A1} \\ \hline \text{ACB} \\ + 5\text{A8} \\ \hline 55\text{BE} \end{array} \Rightarrow B=?$$

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

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$\begin{array}{r} A1B \\ - B8 \\ \hline 6C4 \end{array} \Rightarrow A+B+C=?$$

- A) 16
B) 17
C) 18
D) 19
E) 20

$$\begin{array}{r} 8A4B7 \\ - 7B8A4 \\ \hline 14553 \end{array} \Rightarrow A-B=?$$

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

$$\begin{array}{r} ABC-CBA \\ AC-CA \\ \hline \end{array} = ?$$

- A) 9
B) 10
C) 11
D) 33
E) 99

$$\begin{array}{r} ABB \ 3B \\ CD \ 26 \\ \hline 24B \\ - D16 \\ \hline 030 \end{array} \Rightarrow ABB=?$$

- A) 466
B) 577
C) 788
D) 899
E) 966

$$\begin{array}{r} \blacksquare 6 \blacksquare \blacktriangle \\ \blacksquare \blacksquare \blacktriangle \\ \hline 06 \\ - 6 \\ \hline 0 \blacksquare \\ - \blacksquare \\ \hline 0 \end{array} \Rightarrow \blacksquare = ?$$

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

$$\begin{array}{r} AAB \\ \times BC \\ \hline DD4 \\ + AAB \\ \hline 3094 \end{array} \Rightarrow A=?$$

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

$$\begin{array}{r}
 5A \\
 \times BC \\
 \hline
 .7 \\
 + \dots 5 \\
 \hline
 DE07
 \end{array}
 \Rightarrow D+E=?$$

- A) 8
- B) 9
- C) 10
- D) 11
- E) 12

$$\begin{array}{r}
 ABC \\
 + BEF \\
 \hline
 698
 \end{array}
 \quad
 \begin{array}{r}
 ABC \\
 - BEF \\
 \hline
 326
 \end{array}
 \Rightarrow (ABC)=?$$

- A) 510
- B) 511
- C) 512
- D) 513
- E) 514

$$\begin{array}{r}
 52K \\
 \times L2 \\
 \hline
 \dots 4 \\
 + \dots \\
 \hline
 2\dots 3
 \end{array}
 \Rightarrow K+L=?$$

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

$$\begin{array}{r}
 \triangle \circ \\
 + \square \star \\
 \hline
 35
 \end{array}
 \quad
 \begin{array}{r}
 \square \star \\
 + \blacksquare \blacktriangle \\
 \hline
 58
 \end{array}
 \Rightarrow
 \begin{array}{r}
 \blacksquare \blacktriangle \\
 - \triangle \circ \\
 \hline
 ?
 \end{array}$$

- A) 17
- B) 21
- C) 23
- D) 25
- E) 26

$$\begin{array}{r}
 ABC \\
 ABC \\
 + ABC \\
 \hline
 DEFG
 \end{array}
 \quad
 \begin{array}{r}
 DEFG \overline{) 4} \\
 \underline{} \\
 384
 \end{array}
 \Rightarrow A+B+C=?$$

- A) 8
- B) 9
- C) 10
- D) 11
- E) 12

$$\begin{array}{r}
 K L K \\
 \times L K \\
 \hline
 M K M \\
 + K L K \\
 \hline
 A B C 9
 \end{array}
 \Rightarrow A+B+C=?$$

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

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekli sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.
In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$\begin{array}{r}
 1 \text{ K } 5 \\
 \times 1 \text{ S } \\
 \hline
 \text{E } 5 \text{ A} \\
 + 1 \text{ K } 5 \\
 \hline
 \text{S } 1 \text{ A A}
 \end{array}
 \Rightarrow K = ?$$

- A) 3
B) 4
C) 6
D) 7
E) 8

$$\begin{array}{r}
 \text{K L M} \\
 \times 3 \text{ N} \\
 \hline
 \text{S M B} \\
 + 5 4 9 \\
 \hline
 \text{T B B } 2
 \end{array}
 \Rightarrow T + L + N = ?$$

- A) 12
B) 16
C) 18
D) 21
E) 22

$$\begin{array}{r}
 \text{K L K} \\
 - \text{K L} \\
 \hline
 5 6 4
 \end{array}
 \Rightarrow K + L = ?$$

- A) 7
B) 8
C) 9
D) 11
E) 13

$$\begin{array}{r}
 \text{K L M} \\
 \text{L M K} \\
 + \text{M K L} \\
 \hline
 6 6 6
 \end{array}
 \quad
 \begin{array}{r}
 \text{K L} \\
 - \text{L K} \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 \text{K M} \\
 - \text{M K} \\
 \hline
 1 8
 \end{array}
 \Rightarrow K = ?$$

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

$$\begin{array}{r}
 \text{K} \\
 + 2 \\
 \hline
 \text{M}
 \end{array}
 \quad
 \begin{array}{r}
 \text{M} \\
 - 3 \\
 \hline
 \text{L}
 \end{array}
 \quad
 \begin{array}{r}
 \text{L} \\
 + 4 \\
 \hline
 \text{N}
 \end{array}
 \Rightarrow
 \begin{array}{r}
 \text{N M K} \\
 - \text{L K N} \\
 \hline
 ???
 \end{array}$$

- A) 415
B) 416
C) 417
D) 418
E) 419

$$\begin{array}{r}
 \text{K} \\
 + \text{K} \\
 \hline
 \text{L}
 \end{array}
 \quad
 \begin{array}{r}
 \text{K} \\
 \times \text{L} \\
 \hline
 \text{M N}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 + \text{R} \\
 \hline
 \text{N}
 \end{array}
 \quad
 \begin{array}{r}
 \text{P} \\
 \times \text{N} \\
 \hline
 \text{K T}
 \end{array}
 \Rightarrow T + N = ?$$

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

7.
$$\begin{array}{r} \text{KLM} \\ + \text{ABC} \\ \hline 1524 \end{array} \quad \begin{array}{r} \text{KLM} \\ + \text{ABC} \\ \hline 226 \end{array} \Rightarrow K+L+M=?$$

- A) 20
B) 18
C) 16
D) 14
E) 12

8.
$$\begin{array}{r} \text{KLM} \\ - \text{..} \\ \hline 0 \text{..} \\ - 36 \\ \hline 5 \end{array} \quad \begin{array}{r} \text{..} \\ \hline 23 \end{array} \Rightarrow K+L+M=?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

9.
$$\begin{array}{r} \blacksquare \blacktriangle \bullet \\ \blacksquare \star \\ \hline 0 \ 3 \ \bullet \\ - 3 \ 0 \\ \hline 0 \ \bullet \end{array} \quad \begin{array}{r} \star \\ \hline 9 \ N \end{array} \Rightarrow N=?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

10.
$$\begin{array}{r} \text{KLM} \\ + \text{LKM} \\ \hline 56L \end{array} \Rightarrow K+L=?$$

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

11.
$$\begin{array}{r} \text{KLM} \\ \times \text{LM} \\ \hline \text{PLM} \\ + \text{LM0} \\ \hline 31\text{LM} \end{array} \Rightarrow K+(L \cdot M)=?$$

- A) 12
B) 11
C) 10
D) 9
E) 8

12.
$$\begin{array}{r} \text{KLM} \\ \times \text{K6} \\ \hline \text{MMM} \\ + \text{KLM} \\ \hline \text{SP6M} \end{array} \Rightarrow S+P=?$$

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

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} AB4 \\ - B5C \\ \hline 132 \end{array} \Rightarrow A+B+C=?$$

- A) 19
B) 18
C) 17
D) 15
E) 13

$$2. \quad \begin{array}{r} 83 \\ \times AB \\ \hline \dots \\ + \dots \\ \hline CB31 \end{array} \Rightarrow A+B+C=?$$

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

$$3. \quad \begin{array}{r} X|Y \\ \hline N \end{array} \quad \begin{array}{r} X+N, Z \\ \hline N \end{array} \Rightarrow Z=?$$

- A) $X - N$
B) $X + 2$
C) $Y + 1$
D) $Y + N$
E) $X + Y + 1$

$$4. \quad \begin{array}{r} AB \\ + BA \\ \hline CC \end{array} \quad \begin{array}{r} AA \\ + CC \\ \hline 154 \end{array} \quad \begin{array}{r} CB \\ - BC \\ \hline 54 \end{array} \Rightarrow \begin{array}{r} A \\ + C \\ \hline ? \end{array}$$

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

$$5. \quad \begin{array}{r} 4AB | AB \\ \hline 10 \\ \hline 13 \end{array} \Rightarrow A+B=?$$

- A) 15
B) 13
C) 10
D) 7
E) 6

$$6. \quad \begin{array}{r} AB \\ \times CS \\ \hline \dots \\ + 1 \cdot 6 \\ \hline 12 \cdot 7 \end{array} \Rightarrow 2A+B+C=?$$

- A) 20
B) 19
C) 18
D) 17
E) 16

7.

$$\begin{array}{r} X \\ -7 \\ \hline Y \end{array} \quad \begin{array}{r} Y \\ -4 \\ \hline Z \end{array} \quad \begin{array}{r} Z \\ -3 \\ \hline V \end{array} \Rightarrow X - V = ?$$

- A) 14
B) 10
C) 8
D) 7
E) 6

8.

$$\begin{array}{r} 276 \\ \hline C \end{array} \begin{array}{r} AB \\ 18 \\ \hline \end{array} \Rightarrow A + B + C = ?$$

- A) 8
B) 10
C) 12
D) 18
E) 20

9.

$$\begin{array}{r} ABC \\ + DBC \\ \hline CC0 \end{array} \Rightarrow \max(A+B+C+D) = ?$$

- A) 11
B) 12
C) 13
D) 15
E) 16

10.

$$\begin{array}{r} AB \\ \times 7 \\ \hline 1C \\ + 9A \\ \hline \dots 81 \end{array} \Rightarrow A + B + C = ?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

11.

$$\begin{array}{r} KL \\ LK \\ + LL \\ \hline MM0 \end{array} \quad \begin{array}{r} M \\ M \\ + M \\ \hline L \end{array} \Rightarrow KLM = ?$$

- A) 134
B) 143
C) 314
D) 341
E) 431

12.

$$\begin{array}{r} K \\ \times L \\ \hline 24 \end{array} \quad \begin{array}{r} L \\ \times M \\ \hline 15 \end{array} \quad \begin{array}{r} M \\ \times N \\ \hline 35 \end{array} \Rightarrow K + L + M + N = ?$$

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

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$\begin{array}{r} \text{KLK} \\ + \text{1KL} \\ \hline \text{L32} \end{array} \Rightarrow K = ?$$

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

$$\begin{array}{r} \text{KLM} \\ - \text{MLK} \\ \hline \text{LP2} \end{array} \Rightarrow P = ?$$

- A) 0
B) 3
C) 5
D) 7
E) 9

$$\begin{array}{r} \text{KL} \\ \text{LM} \quad \text{LM} \\ + \text{MN} \quad + \text{ML} \\ \hline \text{1MN} \quad ? \end{array}$$

- A) 119
B) 109
C) 110
D) 99
E) 90

$$\begin{array}{r} \text{AA} \quad \text{AC} \\ \times \text{A} \quad \times \text{A} \\ \hline \text{BAC} \quad \text{BCA} \end{array} \Rightarrow B = ?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

$$\begin{array}{r} \text{KK} \quad \text{LL} \quad \text{MM} \\ \times \text{K} \quad \times \text{K} \quad + \text{LL} \\ \hline \text{LL} \quad \text{MM} \quad ? \end{array}$$

- A) 154
B) 132
C) 121
D) 110
E) 33

$$\begin{array}{r} \text{K} \quad \text{N} \quad \text{LK} \\ + \text{L} \quad + \text{K} \quad - \text{KL} \\ \hline \text{NN} \quad \text{L} \quad ? \end{array}$$

- A) 45
B) 36
C) 27
D) 18
E) 9

$$\begin{array}{r}
 \text{KK} \\
 - \text{LL} \\
 \hline
 \text{MM}
 \end{array}
 +
 \begin{array}{r}
 \text{KK} \\
 \text{LL} \\
 + \text{MM} \\
 \hline
 198
 \end{array}
 \Rightarrow K = ?$$

- A) 5
B) 8
C) 7
D) 8
E) 9

$$\begin{array}{r}
 \text{KL} \\
 \text{LM} \\
 + \text{MK} \\
 \hline
 165
 \end{array}
 +
 \begin{array}{r}
 \text{LL} \\
 + \text{MM} \\
 \hline
 121
 \end{array}
 \Rightarrow K = ?$$

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

$$\begin{array}{r}
 \text{KLM} \\
 \text{MLK} \\
 + \text{LKM} \\
 \hline
 1K6K
 \end{array}
 \Rightarrow K = ?$$

- A) 3
B) 4
C) 5
D) 7
E) 8

$$\begin{array}{r}
 \text{KL} \\
 \times \text{L} \\
 \hline
 \text{ML}
 \end{array}
 +
 \begin{array}{r}
 \text{KN} \\
 \times \text{N} \\
 \hline
 \text{PN}
 \end{array}
 \Rightarrow P + M = ?$$

- A) 12
B) 13
C) 16
D) 17
E) 19

$$\begin{array}{r}
 \text{KK} \\
 \times \text{LL} \\
 \hline
 \dots \\
 + \dots \\
 \hline
 4235
 \end{array}
 \Rightarrow K + L = ?$$

- A) 10
B) 12
C) 14
D) 15
E) 16

$$\begin{array}{r}
 \text{KK} \\
 \times \text{K} \\
 \hline
 \text{LL}
 \end{array}
 +
 \begin{array}{r}
 \text{KK} \\
 \times \text{L} \\
 \hline
 \text{MM}
 \end{array}
 \Rightarrow \frac{\text{MLM}}{\text{K}} = ?$$

- A) 242
B) 282
C) 424
D) 484
E) 848

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} \text{KLK} \\ + \text{K} \\ \hline \text{N00} \end{array} \Rightarrow K = ?$$

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

$$2. \quad \begin{array}{r} \text{KL} \\ + \text{LK} \\ \hline 99 \end{array} \quad \begin{array}{r} \text{KL} \\ - \text{LK} \\ \hline 9 \end{array} \Rightarrow K \times L = ?$$

- A) 8
B) 9
C) 14
D) 18
E) 20

$$3. \quad \frac{\text{LM}}{\text{K}} = \text{K} \quad \frac{\text{MK}}{\text{L}} = \text{K} \Rightarrow K + L + M = ?$$

- A) 10
B) 12
C) 14
D) 16
E) 18

$$4. \quad \begin{array}{r} \text{LL} \\ \times \text{M} \\ \hline \text{LL} \end{array} \quad \begin{array}{r} \text{KL} \\ \times 2\text{M} \\ \hline \text{KL} \\ + \quad \quad \\ \hline 903 \end{array} \Rightarrow K = ?$$

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

$$5. \quad \frac{17\text{KK}}{4} = \text{KLM} \Rightarrow L + M = ?$$

- A) 8
B) 9
C) 10
D) 11
E) 12

$$6. \quad \begin{array}{r} \text{NN} \\ \times \text{N} \\ \hline 44 \end{array} \quad \begin{array}{r} \text{K6M} \\ - \text{NK6} \\ \hline \text{NNN} \end{array} \Rightarrow K + M = ?$$

- A) 8
B) 10
C) 12
D) 14
E) 16

7.

$$\begin{array}{r} \text{KK} \\ \times \text{LL} \\ \hline \text{L178} \end{array} \Rightarrow K+L=?$$

- A) 6
B) 8
C) 9
D) 10
E) 11

8.

$$\begin{array}{r} \text{K} \\ + \text{1} \\ \hline \text{L} \end{array} \quad \begin{array}{r} \text{L} \\ + \text{1} \\ \hline \text{M} \end{array} \quad \begin{array}{r} \text{K} \\ \text{L} \\ + \text{M} \\ \hline \text{N} \end{array} \quad \begin{array}{r} \text{L} \\ \times \text{M} \\ \hline \text{N} \end{array} \Rightarrow L+M=?$$

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

9.

$$\begin{array}{r} \text{KN} \\ \times \text{M} \\ \hline \text{KN} \end{array} \quad \begin{array}{r} \text{K} \\ - \text{L} \\ \hline \text{M} \end{array} \quad \begin{array}{r} \text{KL} \\ - \text{LK} \\ \hline \text{N} \end{array} \Rightarrow N=?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

10.

$$\begin{array}{r} \text{M} \\ \times \text{N} \\ \hline \text{M} \end{array} \quad \begin{array}{r} \text{LM} \\ + \text{MN} \\ \hline 54 \end{array} \Rightarrow L \times M = ?$$

- A) 15
B) 12
C) 9
D) 6
E) 3

11.

$$\begin{array}{r} \text{KLM} \\ \times \text{KM} \\ \hline 6\text{LM} \\ + \text{KLM} \\ \hline \text{K87M} \end{array} \Rightarrow K+L+M=?$$

- A) 8
B) 9
C) 10
D) 11
E) 12

12.

$$\begin{array}{r} \text{KLM} \\ + \text{ML} \\ \hline 555 \end{array} \quad \begin{array}{r} \text{L} \\ - \text{M} \\ \hline 1 \end{array} \Rightarrow K \times L = ?$$

- A) 11
B) 12
C) 13
D) 14
E) 15

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işaretli ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$\begin{array}{r}
 1. \quad \begin{array}{r}
 AAA \\
 \times 444 \\
 \hline
 \dots\dots \\
 \dots\dots \\
 + \dots\dots \\
 \hline
 147B52
 \end{array} \Rightarrow B = ?
 \end{array}$$

- A) 2
B) 4
C) 6
D) 7
E) 8

$$2. \quad \begin{array}{r}
 48XY \overline{) Z} \\
 \underline{802} \\
 3
 \end{array} \Rightarrow X + Y + Z = ?$$

- A) 12
B) 14
C) 15
D) 17
E) 18

$$3. \quad \begin{array}{r}
 AB \overline{) 8} \\
 \underline{CD} A \\
 7
 \end{array} \Rightarrow C + D = ?$$

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

$$4. \quad \begin{array}{r}
 2AB \overline{) C5} \\
 \underline{3} \\
 2
 \end{array} \Rightarrow A + B + C = ?$$

- A) 9
B) 12
C) 18
D) 24
E) 28

$$5. \quad \begin{array}{r}
 KLM \\
 - MLK \\
 \hline
 TR4
 \end{array} \Rightarrow T + R = ?$$

- A) 14
B) 13
C) 12
D) 11
E) 10

$$6. \quad \begin{array}{r}
 X3Y \\
 \times 11 \\
 \hline
 \dots\dots \\
 + \dots\dots \\
 \hline
 587Y
 \end{array} \Rightarrow X + Y = ?$$

- A) 9
B) 7
C) 6
D) 5
E) 3

7.
$$\begin{array}{r} 8A3 \\ 5B7 \\ \hline A56 \end{array} \Rightarrow A+B=?$$

- A) 6
B) 8
C) 12
D) 15
E) 21

8.
$$\begin{array}{r} ABC \\ \times 3D \\ \hline . . . \\ + 378 \\ \hline 4662 \end{array} \Rightarrow D=?$$

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

9.
$$\begin{array}{r} AA \\ BB \\ + CC \\ \hline 154 \end{array} \quad \begin{array}{r} BB \\ + AA \\ \hline CC \end{array} \Rightarrow C=?$$

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

10.
$$\begin{array}{r} AB \\ \times 8C \\ \hline 194 \\ + 776 \\ \hline \end{array} \Rightarrow A+B+C=?$$

- A) 14
B) 16
C) 18
D) 20
E) 22

11.
$$\begin{array}{r} . . . \\ \times 345 \\ \hline \\ \boxed{. . . .} \rightarrow ? \\ + 1536 \\ \hline \end{array}$$

- A) 1048
B) 1688
C) 1958
D) 2048
E) 2118

12.
$$\begin{array}{r} ABB \\ + AA \\ \hline 865 \end{array} \Rightarrow 3A-2B=?$$

- A) 5
B) 7
C) 9
D) 11
E) 13

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \begin{array}{r} KL \\ LM \\ + LM \\ \hline KLM \end{array} \Rightarrow K + L + M = ?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

$$2. \begin{array}{r} 9KL \\ - 5L7 \\ \hline 4LK \end{array} \Rightarrow K + L = ?$$

- A) 3
B) 5
C) 7
D) 9
E) 11

$$3. \begin{array}{r} KL \\ \times 4 \\ \hline 4M \end{array} \quad \begin{array}{r} 3M \\ \times LN \\ \hline KL \end{array} \Rightarrow N = ?$$

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

$$4. \begin{array}{r} ABC \\ \times 43 \\ \hline 37C \\ + \dots \\ \hline \dots \end{array} \Rightarrow A \times B \times C = ?$$

- A) 6
B) 10
C) 15
D) 18
E) 21

$$5. \begin{array}{r} AB \\ + BB \\ \hline 68 \end{array} \quad \begin{array}{r} CB \\ + AD \\ \hline 91 \end{array} \Rightarrow C = ?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

$$6. \begin{array}{r} A \ B \\ \times 2 \\ \hline 1 \end{array} \quad \begin{array}{r} B \ C \\ \times 3 \\ \hline 1 \end{array} \Rightarrow \begin{array}{r} A \ 6 \\ \times 2 \\ \hline ? \end{array}$$

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

$$7. \quad \begin{array}{r} KM8 \\ - L7M \\ \hline 1K7 \end{array} \quad \begin{array}{r} KL \\ - MK \\ \hline LN \end{array} \Rightarrow N = ?$$

- A) 5
- B) 6
- C) 7
- D) 8
- E) 9

$$8. \quad \begin{array}{r} xyz \\ - zyx \\ \hline 29a \end{array} \Rightarrow a = ?$$

- A) 2
- B) 4
- C) 6
- D) 7
- E) 9

$$9. \quad \begin{array}{r} A5B3C \\ - A1B5C \\ \hline ????? \end{array}$$

- A) 3800
- B) 3820
- C) 3890
- D) 3980
- E) 4020

$$10. \quad \begin{array}{r} AB \\ BC \\ + CA \\ \hline 88 \end{array} \quad A > B > C \Rightarrow \max(A) = ?$$

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

$$11. \quad \begin{array}{r} KL \mid 13 \\ - \cdot \mid a \\ \hline 8 \end{array} \quad \begin{array}{r} MN \mid 13 \\ - \cdot \mid b \\ \hline 12 \end{array} \quad \begin{array}{r} KL - MN \mid 13 \\ - \cdot \mid ? \\ \hline ? \end{array}$$

- A) 5
- B) 6
- C) 7
- D) 8
- E) 9

$$12. \quad \begin{array}{r} KKK \\ + LLL \\ \hline 1665 \end{array} \quad \begin{array}{r} LLL \\ + MMM \\ \hline 1443 \end{array} \quad \begin{array}{r} KKK \\ - MMM \\ \hline ??? \end{array}$$

- A) 111
- B) 222
- C) 333
- D) 444
- E) 555

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} T \\ + N \\ \hline LL \end{array} \quad \begin{array}{r} LL \\ + LL \\ \hline MM \end{array} \Rightarrow T + N + L + M = ?$$

- A) 13
B) 14
C) 15
D) 16
E) 17

$$2. \quad \begin{array}{r} ab \\ \times c \\ \hline 144 \end{array} \quad \begin{array}{r} ab \\ \times d \\ \hline 252 \end{array} \quad \begin{array}{r} ab \\ \times od \\ \hline ? \end{array}$$

- A) 1446
B) 1589
C) 1692
D) 1782
E) 1964

$$3. \quad \begin{array}{r} K \\ + L \\ \hline 8 \end{array} \quad \begin{array}{r} M \\ + 5 \\ \hline 12 \end{array} \quad \begin{array}{r} K \\ + 3 \\ \hline M \end{array} \Rightarrow \begin{array}{r} M \\ - L \\ \hline ? \end{array}$$

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

$$4. \quad \begin{array}{r} L \\ + 4 \\ \hline 8 \end{array} \quad \begin{array}{r} L \\ + M \\ \hline 11 \end{array} \quad \begin{array}{r} K \\ + 1 \\ \hline M \end{array} \Rightarrow \begin{array}{r} K \\ L \\ + M \\ \hline ? \end{array}$$

- A) 19
B) 21
C) 25
D) 32
E) 35

$$5. \quad \begin{array}{r} KK \\ + 77 \\ \hline LL \end{array} \quad \begin{array}{r} KL \\ + LK \\ \hline MM \end{array} \Rightarrow K \times L \times M = ?$$

- A) 36
B) 48
C) 56
D) 64
E) 72

$$6. \quad \begin{array}{r} MM \\ \times K \\ \hline KK \end{array} \quad \begin{array}{r} KK \\ - LL \\ \hline MM \end{array} \Rightarrow \begin{array}{r} LL \\ | MM \\ \hline ? \end{array}$$

- A) K
B) L
C) M
D) LM
E) ML

$$7. \quad \begin{array}{r} K \overline{) 7} \\ \underline{3} \end{array} \quad \begin{array}{r} K+5 \overline{) N+1} \\ \underline{M} \end{array} \quad K > 9 \Rightarrow M = ?$$

- A) 0
B) 1
C) 2
D) 3
E) 4

$$8. \quad \begin{array}{r} KK \\ KL \\ LK \\ LL \\ + \\ \hline 308 \end{array} \Rightarrow K+L = ?$$

- A) 10
B) 12
C) 14
D) 16
E) 18

$$9. \quad \begin{array}{r} CD \\ \times DC \\ \hline E1E \\ + C21 \\ \hline CC2E \end{array} \Rightarrow C = ?$$

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

$$10. \quad \frac{D}{E} \div \frac{D}{14} = \frac{E}{2} \Rightarrow D = ?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

$$11. \quad \begin{array}{r} KL8 \\ + LKG \\ \hline 1004 \end{array} \quad \begin{array}{r} KL8 \\ - LK \\ \hline 404 \end{array} \Rightarrow \begin{array}{r} KL \\ \times LK \\ \hline ? \end{array}$$

- A) 2430
B) 2340
C) 2130
D) 2040
E) 1986

$$12. \quad \begin{array}{r} KLM \\ \times 2K \\ \hline N.. \\ + 656 \\ \hline 7544 \end{array} \Rightarrow K+L+M+N = ?$$

- A) 12
B) 14
C) 18
D) 20
E) 22

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$\begin{array}{r}
 \text{MNP} \\
 \times \text{NN} \\
 \hline
 \text{MNP} \\
 + \text{MNP} \\
 \hline
 1003\text{P}
 \end{array}
 \Rightarrow \text{P} = ?$$

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

$$\begin{array}{r}
 \text{A} \text{ B} \\
 - \text{C} \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 \text{A+B} \text{ B} \\
 - \text{D} \\
 \hline
 0
 \end{array}
 \Rightarrow \text{D} - \text{C} = ?$$

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

$$\begin{array}{r}
 \text{A} \text{ B} \\
 - \text{5} \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 \text{B} \text{ C} \\
 - \text{4} \\
 \hline
 3
 \end{array}
 \Rightarrow \frac{\text{A} + \text{B} + \text{C} - 20}{5\text{C}} = ?$$

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

$$\begin{array}{r}
 \bullet \\
 + \triangle \\
 \hline
 8
 \end{array}
 \quad
 \begin{array}{r}
 \triangle \\
 + \blacksquare \\
 \hline
 12
 \end{array}
 \quad
 \begin{array}{r}
 \blacksquare \\
 + \bullet \\
 \hline
 14
 \end{array}
 \quad
 \begin{array}{r}
 \bullet \\
 + \triangle \\
 \hline
 17
 \end{array}
 \Rightarrow \triangle + \bullet = ?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

$$\begin{array}{r}
 \text{K} \\
 + \text{K} \\
 \hline
 \text{L}
 \end{array}
 \quad
 \begin{array}{r}
 \text{L} \\
 + \text{L} \\
 \hline
 \text{M}
 \end{array}
 \quad
 \begin{array}{r}
 \text{M} \\
 + \text{M} \\
 \hline
 \text{N}
 \end{array}
 \Rightarrow \begin{array}{r}
 \text{NLK} \\
 - \text{MLN} \\
 \hline
 ???
 \end{array}$$

- A) 393
B) 497
C) 596
D) 654
E) 769

$$\begin{array}{r}
 9999099 \\
 - \text{A} \\
 \hline
 0
 \end{array}
 \Rightarrow \begin{array}{l} \text{A} > 10 \\ \text{A} = ? \end{array}$$

- A) 1101
B) 11001
C) 10001
D) 11101
E) 101001

7.
$$\begin{array}{r} A \\ + B \\ \hline 30 \end{array} \quad \begin{array}{r} B \\ + C \\ \hline 38 \end{array} \quad \begin{array}{r} A \\ + C \\ \hline 36 \end{array} \Rightarrow A+B+C=?$$
 $A; B; C > 10$

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

8.
$$\begin{array}{r} AB \\ BA \\ CD \\ DC \\ EF \\ FE \\ + \\ \hline 231 \end{array} \Rightarrow A+B+C+D+E+F=?$$

- A) 20
B) 21
C) 22
D) 23
E) 24

9.
$$\begin{array}{r} \triangle \bullet \\ \times \star \\ \hline 192 \end{array} \quad \begin{array}{r} \triangle \bullet \\ \times \blacksquare \\ \hline 448 \end{array} \quad \begin{array}{r} \triangle \bullet \\ \times \star \blacksquare \\ \hline ? \end{array}$$

- A) 2154
B) 2274
C) 2285
D) 2368
E) 2438

10.
$$\begin{array}{r} K L K \\ + L K L \\ \hline 1 S S 1 \end{array} \Rightarrow S=?$$

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

11.
$$\begin{array}{r} K \\ + L \\ \hline M \end{array} \quad \begin{array}{r} K \\ - L \\ \hline M \end{array} \Rightarrow K \cdot L \cdot M=?$$

- A) 0
B) 2
C) 8
D) 16
E) 64

12.
$$\begin{array}{r} K \\ + L \\ \hline N \end{array} \quad \begin{array}{r} NL \\ + LL \\ \hline 52 \end{array} \Rightarrow K \times L=?$$

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

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} KL2 \\ + 454 \\ \hline 8K6 \end{array} \quad \begin{array}{r} KL \\ + L4 \\ \hline 122 \end{array} \Rightarrow KXL = ?$$

- A) 24
B) 30
C) 36
D) 42
E) 48

$$2. \quad \begin{array}{r} A \\ - B \\ \hline 1 \end{array} \quad \begin{array}{r} B \\ - C \\ \hline 1 \end{array} \Rightarrow \begin{array}{r} ABC \\ - CBA \\ \hline ??? \end{array}$$

- A) 123
B) 153
C) 198
D) 219
E) 235

$$3. \quad \begin{array}{r} ABC \\ \times 2 \\ \hline 990 \\ 990 \\ + 990 \\ \hline \dots \end{array} \Rightarrow B = ?$$

- A) 3
B) 4
C) 5
D) 8
E) 9

$$4. \quad \begin{array}{r} AB \\ BA \\ + BA \\ \hline 154 \end{array} \Rightarrow \max(AB) = ?$$

- A) 70
B) 61
C) 52
D) 43
E) 34

$$5. \quad \frac{AB + BC + CA}{AA + BB + CC} = ?$$

- A) 1
B) 2
C) 11
D) 22
E) 33

$$6. \quad \begin{array}{r} ABA1 \\ - A1AB \\ \hline 0598 \end{array} \Rightarrow B = ?$$

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

$$\begin{array}{r}
 7A6BC \\
 - 6A7CB \\
 \hline
 9918
 \end{array}
 \Rightarrow B - C = ?$$

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

$$\begin{array}{r}
 KL \\
 \times L \\
 \hline
 336
 \end{array}
 \quad
 \begin{array}{r}
 MN \\
 \times N \\
 \hline
 336
 \end{array}
 \quad
 \begin{array}{r}
 K \\
 L \\
 M \\
 + N \\
 \hline
 ?
 \end{array}$$

- A) 16
- B) 20
- C) 23
- D) 27
- E) 29

$$\frac{MLM}{LM} = 21 \Rightarrow L \times M = ?$$

- A) 3
- B) 5
- C) 7
- D) 9
- E) 10

$$\begin{array}{r}
 KL \\
 \times LM \\
 \hline
 KL \\
 + TK \\
 \hline
 TTL
 \end{array}
 \Rightarrow T = ?$$

- A) 2
- B) 4
- C) 6
- D) 8
- E) 9

$$\frac{LL}{K} = KK \quad \frac{MM}{L} = KK \Rightarrow K+L+M = ?$$

- A) 14
- B) 12
- C) 10
- D) 8
- E) 6

$$\begin{array}{r}
 KK \\
 + LL \\
 \hline
 77
 \end{array}
 \quad
 \begin{array}{r}
 KK \\
 - LL \\
 \hline
 33
 \end{array}
 \Rightarrow \begin{array}{r}
 K \\
 \times L \\
 \hline
 ?
 \end{array}$$

- A) 6
- B) 10
- C) 16
- D) 18
- E) 24

Yanıtlar / Answers

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

1 – 12. sorulardaki işlemlerde her harf veya şekli sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekli ya da işlemin değerini bulunuz.

In questions 1 – 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$\begin{array}{r} \text{KLM} \\ \text{LM} \\ + \text{M} \\ \hline 258 \end{array} \Rightarrow K + L + M = ?$$

- A) 16
B) 15
C) 14
D) 12
E) 10

$$\begin{array}{r} \text{KLM} \\ + \text{NRN} \\ \hline 723 \end{array} \quad \begin{array}{r} \text{KLM} \\ - \text{NRN} \\ \hline 44i \end{array} \Rightarrow K = ?$$

- A) 3
B) 5
C) 6
D) 7
E) 9

$$\begin{array}{r} \text{L} \\ + \text{L} \\ \hline \text{KM} \end{array} \quad \frac{\text{KM}}{\text{N}} = \text{L} \Rightarrow N = ?$$

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

$$\begin{array}{r} \text{LL} \\ + \text{MM} \\ \hline \text{N2N} \end{array} \quad \begin{array}{r} \text{L} \\ - \text{M} \\ \hline \text{N} \end{array} \Rightarrow L = ?$$

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

$$\begin{array}{r} \text{K} \\ + \text{L} \\ \hline \text{M} \end{array} \quad \begin{array}{r} \text{KLM} \\ - \text{MK} \\ \hline \text{ML} \end{array} \Rightarrow M = ?$$

- A) 5
B) 6
C) 7
D) 8
E) 9

$$\begin{array}{r} \text{AAB} \\ \text{BAA} \\ + \text{ABA} \\ \hline 777 \end{array} \Rightarrow \max(A \times B) = ?$$

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

$$7. \quad \begin{array}{r} KL \\ + ML \\ \hline LK \end{array} \quad \begin{array}{r} M \\ + M \\ \hline L \end{array} \Rightarrow L = ?$$

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

$$8. \quad \begin{array}{r} KK \\ \times KK \\ \hline \dots \\ + \dots \\ \hline KLK \end{array} \Rightarrow K + L = ?$$

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

$$9. \quad \begin{array}{r} KK \\ \times K \\ \hline LL \end{array} \quad \begin{array}{r} MM \\ \times \\ \hline 0 \end{array} \quad \begin{array}{r} K \\ \times \\ \hline LL \end{array} \Rightarrow K + L + M = ?$$

- A) 10
B) 12
C) 14
D) 16
E) 18

$$10. \quad \begin{array}{r} K \\ - L \\ \hline M \end{array} \quad \begin{array}{r} K \\ + K \\ \hline LM \end{array} \Rightarrow K + L + M = ?$$

- A) 16
B) 18
C) 20
D) 22
E) 24

$$11. \quad \begin{array}{r} K \\ - L \\ \hline 3 \end{array} \quad \begin{array}{r} KL \\ - LK \\ \hline LM \end{array} \Rightarrow M = ?$$

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

$$12. \quad \begin{array}{r} KL \\ + KL \\ \hline L8 \end{array} \quad \begin{array}{r} K \\ + L \\ \hline 13 \end{array} \Rightarrow K = ?$$

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

Yanıtlar / Answers

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

1 - 12. sorulardaki işlemlerde her harf veya şekil sıfırdan ve birbirinden farklı birer rakamı göstermektedir. Soru işareti ile belirtilen harf, şekil ya da işlemin değerini bulunuz.

In questions 1 - 12 each letter or figure stands for a different numeral zero excepted in the operations given. Find the value of letter, figure or operation indicated by the question mark.

$$1. \quad \begin{array}{r} 13KL \\ 5 \end{array} = K6L \Rightarrow K + L = ?$$

- A) 2
B) 5
C) 7
D) 9
E) 11

$$2. \quad \begin{array}{r} KL \\ \times M \\ \hline 6M \end{array} \quad \begin{array}{r} K \\ - M \\ \hline 1 \end{array} \Rightarrow M = ?$$

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

$$3. \quad \begin{array}{r} AB \\ \times 34 \\ \hline KLO \\ + 13N \\ \hline 1530 \end{array} \Rightarrow K + L + N = ?$$

- A) 10
B) 11
C) 12
D) 13
E) 14

$$4. \quad \begin{array}{r} 24XY \\ \times Z \\ \hline 306 \end{array} \Rightarrow X + Y + Z = ?$$

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

$$5. \quad \begin{array}{r} A \\ \times B \\ \hline 43 \end{array} \quad \begin{array}{r} A + 116 \\ \times B \\ \hline 015 \end{array} \Rightarrow B = ?$$

- A) 9
B) 10
C) 12
D) 14
E) 16

$$6. \quad \begin{array}{r} XYZ \\ \times XY \\ \hline A \end{array} \quad \begin{array}{l} 2A + B = 23 \\ A \geq 10 \end{array} \Rightarrow Z = ?$$

- A) 3
B) 6
C) 5
D) 7
E) 8

$$7. \quad \begin{array}{r} A \\ \hline C \end{array} \begin{array}{r} 7 \\ B \end{array} \quad \begin{array}{r} A \\ \hline B \end{array} \begin{array}{r} C \\ 6 \end{array} \quad \begin{array}{r} A \\ \hline ? \end{array} \begin{array}{r} 5 \end{array}$$

- A) 0
B) 1
C) 2
D) 3
E) 4

$$8. \quad \begin{array}{r} AAB \\ \hline 8 \end{array} \begin{array}{r} A \\ X \end{array} \Rightarrow \begin{array}{l} x \geq 10 \\ B + X = ? \end{array}$$

- A) 18
B) 19
C) 110
D) 118
E) 119

$$9. \quad \begin{array}{r} 3AB \\ \hline 3 \end{array} \begin{array}{r} 3A \\ 1A \end{array} \Rightarrow \begin{array}{l} A \geq 0 \\ A + B = ? \end{array}$$

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

$$10. \quad \begin{array}{r} 335 \\ \hline X \end{array} \begin{array}{r} Y \\ 33 \end{array} \Rightarrow \begin{array}{l} Y \geq 10 \\ X + Y = ? \end{array}$$

- A) 7
B) 9
C) 10
D) 12
E) 15

$$11. \quad \begin{array}{r} KK \\ + LL \\ \hline TT \end{array} \quad \begin{array}{r} MM \\ + NN \\ \hline TT \end{array} \quad \begin{array}{r} TT \\ + TT \\ \hline 110 \end{array} \Rightarrow (K \times L) + (M \times N) = ?$$

- A) 8
B) 9
C) 10
D) 11
E) 12

$$12. \quad \begin{array}{r} a5b9c \\ - 6b3a2 \\ \hline 22912 \end{array} \Rightarrow a + b + c = ?$$

- A) 14
B) 8
C) 6
D) 5
E) 4

Yanıtlar / Answers

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

1. I. $\bullet 412 = 241$, $243 \blacksquare = 63$
II. $\bullet 126 \blacksquare = 612 \blacksquare = 72$
III. $\bullet 183 \blacksquare = 48$
IV. $\bullet 612 \blacksquare = ?$
A) 25
B) 36
C) 49
D) 64
E) 81

4. I. $4 \clubsuit 4 = 8$
II. $5 \clubsuit 9 = 6$
III. $10 \clubsuit 22 = 8$
IV. $3 \clubsuit 9 = ?$
A) 0
B) 16
C) 32
D) 64
E) 122

2. I. $49 \blacktriangle = 36$
II. $25 \blacktriangle = 10$
III. $78 \blacktriangle \blacktriangle = ?$
A) 28
B) 30
C) 56
D) 82
E) 16

5. I. $49 \blacktriangle = 13$
II. $56 \blacktriangle = 11$
III. $47 \blacktriangle \blacktriangle = ?$
A) 82
B) 54
C) 28
D) 16
E) 2

3. I. $12 \bullet 8 = 6, 4, 4$
II. $18 \bullet 12 = 9, 6, 6$
III. $16 \bullet 6 = 8, 3, 10$
IV. $12 \bullet 10 = ?, ?, ?$
A) 6, 4, 2
B) 6, 2, 4
C) 6, 5, 2
D) 6, 6, 2
E) 4, 2, 5

6. I. $8 \star 4 = 36$
II. $12 \star 6 = 81$
III. $10 \star 4 = 49$
IV. $5 \star 3 = ?$
A) 4
B) 9
C) 16
D) 64
E) 81

7. I. $5 \bullet 4 = 81; 1$
 II. $4 \bullet 1 = 25; 27$
 III. $7 \bullet 5 = 144; 8$
 IV. $6 \bullet 2 = ?; ?$
 A) 64; 16
 B) 54; 4
 C) 56; 35
 D) 64; 64
 E) 36; 64

8. I. $123 \bullet 12 = 3$
 II. $426 \bullet 124 = 5$
 III. $142 \blacksquare 214 = 14$
 IV. $816 \blacksquare 213 = 21$
 V. $(625 \blacksquare 213) \bullet (184 \bullet 271) = ?$
 A) 32
 B) 24
 C) 18
 D) 16
 E) 7

9. I. $5 \square = 1025$
 II. $7 \square = 1449$
 III. $9 \square = 1881$
 IV. $4 \square = ?$
 A) 168
 B) 618
 C) 861
 D) 816
 E) 186

10. I. $8 \blacktriangle 7 = 1$
 II. $7 \blacktriangle 4 = 9$
 III. $10 \blacktriangle 5 = 25$
 IV. $9 \blacktriangle 3 = ?$
 A) 12
 B) 22
 C) 25
 D) 27
 E) 36

11. I. $4 \blacktriangle 5 = 36; 45$
 II. $2 \blacktriangle 8 = 20; 80$
 III. $3 \blacktriangle 7 = 30; 70$
 IV. $3 \blacktriangle 6 = ?; ?$
 A) 24, 24
 B) 24, 25
 C) 27, 54
 D) 24, 54
 E) 27, 36

12. I. $\bullet 10 = 4$
 II. $\bullet 8 = 3$
 III. $\bullet 6 = 2$
 IV. $\blacktriangleright 26 = ?$
 A) 7
 B) 8
 C) 9
 D) 10
 E) 11

Yanıtlar / Answers

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

1. I. $3 \blacksquare 5 = 4$
 II. $4 \blacksquare 7 = 5$
 III. $6 \blacksquare 9 = 9$
 IV. $5 \blacksquare 11 = ?$
 A) 0
 B) 1
 C) 2
 D) 3
 E) 4

2. I. $\blacksquare 74 = 11, 28$
 II. $55 \square = 10, 25, 0$
 III. $\blacksquare 97 \square = 16, 63 \square = 9, 18, 3$
 IV. $\blacksquare 99 \square = 18, 81 \square = ?$
 A) 9, 8, 9
 B) 8, 9, 7
 C) 9, 8, 7
 D) 7, 8, 9
 E) 7, 9, 8

3. I. $\star 517 = 67$
 II. $\square 438 = 843$
 III. $\star 465 \square = 105 \square = 510$
 IV. $\star 736 \square = ?$
 A) 510
 B) 610
 C) 160
 D) 105
 E) 106

4. I. $5 \bullet 4 = 10, 9, 8$
 II. $3 \bullet 6 = 6, 9, 12$
 III. $7 \bullet 1 = 14, 8, 2$
 IV. $8 \bullet 3 = ?$
 A) 16, 8, 6
 B) 18, 11, 6
 C) 16, 8, 3
 D) 16, 11, 6
 E) 18, 11, 8

5. I. $5 \square = 125, 25, 150$
 II. $4 \square = 64, 16, 80$
 III. $3 \square = 27, 9, 36$
 IV. $2 \square = ?$
 A) 4, 8, 12
 B) 8, 2, 12
 C) 8, 4, 12
 D) 8, 12, 4
 E) 12, 8, 4

6. I. $5 \bullet 3 = \frac{8}{15}$
 II. $1 \bullet 2 = \frac{3}{2}$
 III. $2 \bullet 3 = \frac{5}{6}$
 IV. $\frac{1}{2} \bullet \frac{1}{4} = ?$
 A) 3
 B) 4
 C) 5
 D) 6
 E) 8

7. I. $a \bullet b = \frac{a^2}{3b}$
 II. $a \blacksquare b = a + b^2$
 III. $(6 \bullet 4) \blacksquare 4 = ?$
 A) 19
 B) 18
 C) 17
 D) 16
 E) 15

8. I. $a \blacktriangle b = \frac{a}{b} + \frac{b}{a}$
 II. $a \blacksquare b = \frac{a}{b} - \frac{b}{a}$
 III. $(2 \blacktriangle 1) \blacktriangle (2 \blacksquare 1) = ?$
 A) $\frac{27}{31}$
 B) $\frac{39}{19}$
 C) $\frac{34}{21}$
 D) $\frac{34}{15}$
 E) $\frac{63}{17}$

9. I. $36 \square 81 = 6; 9; 15$
 II. $49 \square 169 = 7; 13; 20$
 III. $144 \square 64 = ?; ?; ?$
 A) 12, 9, 20
 B) 9, 10, 19
 C) 12, 8, 20
 D) 9, 8, 72
 E) 12, 9, 36

10. I. $a \blacktriangle b = (a \blacksquare b) - 1$
 II. $a \blacksquare b = a \cdot (b + 2)$
 III. $3 \blacktriangle 2 = ?$
 A) 8
 B) 9
 C) 10
 D) 11
 E) 12

11. I. $a \star b = 2(a \blacktriangle b)$
 II. $a \blacktriangle b = \frac{a \blacksquare b}{2}$
 III. $a \blacksquare b = a + b + 2$
 IV. $4 \star 8 = ?$
 A) 8
 B) 10
 C) 12
 D) 14
 E) 16

12. I. $4 \bullet 3 = \frac{12}{7}$
 II. $5 \bullet 4 = \frac{20}{9}$
 III. $6 \bullet 2 = \frac{3}{2}$
 IV. $a \bullet \frac{1}{b} = ?$
 A) $\frac{a+b}{ab-1}$ B) $\frac{a}{ab+1}$ C) $\frac{b}{ab+a}$
 D) $\frac{b}{ab+1}$ E) $\frac{a}{ab+b}$

Yanıtlar / Answers

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

1. I. $64 \bullet 32 = 18$
II. $97 \bullet 39 = 36$
III. $86 \bullet 54 = 28$
IV. $69 \bullet 36 = ?$
A) 28
B) 32
C) 36
D) 40
E) 44

4. I. $48 \bullet 14 = 68$
II. $64 \bullet 19 = 90$
III. $78 \bullet 27 = 102$
IV. $93 \bullet 42 = ?$
A) 34
B) 56
C) 74
D) 96
E) 102

2. I. $986 \bullet 543 = 11$
II. $399 \bullet 712 = 11$
III. $687 \bullet 334 = 11$
IV. $871 \bullet 523 = ?$
A) 5
B) 6
C) 7
D) 8
E) 9

5. I. $98876 * = 19$
II. $57688 * = 17$
III. $43298 * = 13$
IV. $58463 * = ?$
A) 12
B) 13
C) 14
D) 15
E) 16

3. I. $9765 * = 6$
II. $8639 * = 2$
III. $5864 * = 3$
IV. $7853 * = ?$
A) 6
B) 7
C) 8
D) 9
E) 10

6. I. $7 \square 5 = 29$
II. $6 \square 11 = 45$
III. $12 \square 4 = 36$
IV. $15 \square 3 = ?$
A) 36
B) 37
C) 38
D) 39
E) 40

1. I. $4 \bullet 7 = 8; 5; 12$
 II. $3 \bullet 6 = 7; 4; 10$
 III. $5 \bullet 4 = 5; 6; 10$
 IV. $6 \bullet 8 = 7; 2; 7$
 A) 7; 5; 16
 B) 8; 5; 16
 C) 8; 5; 14
 D) 9; 6; 14
 E) 9; 7; 15
4. I. $9 \blacktriangle 5 = 16, 64$
 II. $6 \blacktriangle 3 = 9, 27$
 III. $8 \blacktriangle 4 = 16, 64$
 IV. $12 \blacktriangle 8 = 2, 2$
 A) 16; 64
 B) 16; 96
 C) 12; 32
 D) 12; 64
 E) 18; 96

2. I. $13 \bullet 7 = 36$
 II. $21 \bullet 10 = 121$
 III. $18 \bullet 5 = 64$
 IV. $9 \bullet 3 = 2$
 A) 72
 B) 42
 C) 25
 D) 36
 E) 18
5. I. $5 \blacktriangle 2 = (3, 7, 10)$
 II. $4 \blacktriangle 3 = (1, 7, 8)$
 III. $2 \blacktriangle 1 = (1, 3, 4)$
 IV. $3 \blacktriangle 1 = 2$
 A) (2, 4, 6)
 B) (2, 4, 3)
 C) (1, 2, 3)
 D) (3, 2, 6)
 E) (2, 3, 6)

6. I. $\blacktriangle A = a$
 II. $\blacksquare b = B$
 III. $\nabla d A = ?$
 A) $\blacktriangle E \blacksquare d \blacksquare a$
 B) $\blacksquare e \blacktriangle D \blacktriangle A$
 C) $\blacktriangle e \blacktriangle D \blacksquare a$
 D) $\blacksquare e \blacktriangle D \blacksquare a$
 E) $\blacksquare e \blacksquare d \blacktriangle A$

3. I. $6 \triangle 3 = 3; 18$
 II. $9 \triangle 5 = 4; 45$
 III. $7 \triangle 3 = 4; 21$
 IV. $8 \triangle 8 = ?; ?$
 A) 0; 16
 B) 0; 64
 C) 2; 72
 D) 16; 64
 E) 3; 16

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

9. I. $987 \div 453 = 12$
 II. $696 \div 143 = 12$
 III. $768 \div 224 = 13$
 IV. $888 \div 336 = 2$
 A) 10
 B) 12
 C) 14
 D) 16
 E) 18

8. I. $74 \div 98 = 100$
 II. $62 \div 54 = 32$
 III. $49 \div 23 = 42$
 IV. $82 \div 19 = 7$
 A) 21
 B) 22
 C) 23
 D) 24
 E) 25

7. I. $36 \div 9 = 16$
 II. $27 \div 3 = 81$
 III. $16 \div 8 = 4$
 IV. $45 \div 9 = 2$
 A) 16
 B) 25
 C) 36
 D) 49
 E) 64

12. I. $3 \div (6 \div 3) = 0$
 II. $6 \div (4 \div 4) = 6$
 III. $4 \div (4 \div 3) = 3$
 IV. $4 \div (5 \div 3) = 2$
 A) 1
 B) 2
 C) 4
 D) 5
 E) 7

11. I. $6 \div 9 = 45$
 II. $8 \div 5 = 35$
 III. $7 \div 8 = 48$
 IV. $9 \div 4 = 7$
 A) 30
 B) 31
 C) 32
 D) 33
 E) 34

10. I. $32 \div 45 = 26$
 II. $63 \div 18 = 26$
 III. $46 \div 28 = 40$
 IV. $56 \div 24 = 7$
 A) 34
 B) 36
 C) 38
 D) 40
 E) 42

7. I. $931 \blacksquare = 67 \blacksquare$
 II. $28 \blacksquare = 181 \blacksquare$
 III. $151 \blacksquare = 25 \blacksquare$
 IV. $970 \blacksquare = ? \blacksquare$
 A) 351
 B) 466
 C) 554
 D) 693
 E) 864

8. I. $\blacktriangle 712 = 73$
 II. $\blacktriangle 821 = 83$
 III. $\blacktriangle 314 = ?$
 A) 31
 B) 33
 C) 35
 D) 34
 E) 41

9. I. $\bullet 514 = 59$
 II. $\bullet 312 = 35$
 III. $\bullet 612 = ?$
 A) 45
 B) 68
 C) 74
 D) 75
 E) 85

10. I. $\blacksquare 814 = 148$
 II. $245 \blacktriangle = 266$
 III. $\blacksquare 415 \blacktriangle = ?$
 A) 154
 B) 145
 C) 541
 D) 214
 E) 164

11. I. $\blacktriangle 253 = 325$
 II. $124 \bullet = 34$
 III. $\blacktriangle 432 = 243 \bullet = 63$
 IV. $\blacktriangle 167 \bullet = 86$
 V. $\blacktriangle 236 \bullet = ?$
 A) 29
 B) 46
 C) 81
 D) 83
 E) 92

12. I. $\bullet 452 = 245$ $165 \blacksquare = 75$
 II. $\bullet 163 = 316 \blacksquare = 46$
 III. $(\bullet 294) \blacksquare = ?$
 A) 59
 B) 69
 C) 96
 D) 49
 E) 94

Yanıtlar / Answers

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

1. I. $36 \blacksquare = 6$

II. $(138 \star) = 124$

III. $121 \blacksquare = 11$

IV. $(239 \star) \blacksquare = ?$

A) 9

B) 11

C) 13

D) 15

E) 17

2. I. $2 \bullet 3 = 4 : 6 : 9$

II. $2 \bullet 1 = 4 : 2 : 1$

III. $1 \bullet 3 = 1 : 3 : 9$

IV. $1 \bullet 5 = ? : ? : ?$

A) 1, 2, 5

B) 2, 5, 5

C) 1, 5, 25

D) 2, 1, 25

E) 2, 5, 25

3. I. $\triangle 512 = 63$

II. $\triangle 402 = 42$

III. $\triangle 360 = ?$

A) 48

B) 63

C) 72

D) 96

E) 108

4. I. $\blacksquare 316 = 497$

II. $\blacksquare 423 = 675$

III. $\square 521 = 341$

IV. $\square 842 = 462$

V. $\blacksquare 420 = \dots \square = ?$

A) 142

B) 242

C) 122

D) 221

E) 320

5. I. $\triangle 518 = 47$

III. $\triangle 635 = 32$

III. $\triangle 977 = 20$

IV. $\triangle 506 = ?$

A) 65

B) 60

C) 50

D) 56

E) 11

6. I. $\blacktriangle 347 = 473$

II. $\blacksquare 565 = 11$

III. $\blacktriangle 254 = 542 \blacksquare = 12$

IV. $\blacktriangle 628 \blacksquare = ?$

A) 62

B) 26

C) 20

D) 60

E) 06

7. I. $6 \square 4 = 20$
 II. $4 \square 3 = 7$
 III. $4 \square 2 = 12$
 IV. $3 \square 1 = ?$
 A) 9
 B) 18
 C) 6
 D) 8
 E) 21

8. I. $4 \bullet (4 \bullet 2) = 2$
 II. $10 \bullet (15 \bullet 3) = 2$
 III. $8 \bullet (12 \bullet 3) = 2$
 IV. $9 \bullet (6 \bullet 2) = ?$
 A) 2
 B) 3
 C) 6
 D) 9
 E) 18

9. I. $4 \square 3 = 25$
 II. $5 \square 6 = 61$
 III. $7 \square 8 = 113$
 IV. $9 \square 4 = ?$
 A) 93
 B) 94
 C) 95
 D) 96
 E) 97

10. I. $14 \square 12 = 12$
 II. $23 \square 18 = 4$
 III. $42 \square 8 = 0$
 IV. $64 \square 12 = ?$
 A) 24
 B) 30
 C) 36
 D) 42
 E) 48

11. I. $16 \heartsuit 12 = 7$
 II. $18 \heartsuit 26 = 11$
 III. $18 \heartsuit 30 = 12$
 IV. $10 \heartsuit 14 = ?$
 A) 6
 B) 7
 C) 8
 D) 9
 E) 10

12. I. $8 \blacktriangle 7 = 1$
 II. $7 \blacktriangle 4 = 9$
 III. $10 \blacktriangle 5 = 25$
 IV. $9 \blacktriangle 3 = ?$
 A) 12
 B) 22
 C) 27
 D) 36
 E) 42

Yanıtlar / Answers

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

1. I. $24 \star 18 = 14$
II. $16 \star 17 = 11$
III. $22 \star 17 = 13$
IV. $14 \star 10 = ?$
A) 6
B) 8
C) 10
D) 12
E) 14

2. I. $16 \heartsuit 12 = 10$
II. $18 \heartsuit 32 = 5$
III. $23 \heartsuit 15 = 11$
IV. $17 \heartsuit 19 = ?$
A) 7
B) 8
C) 9
D) 10
E) 11

3. I. $6 \spadesuit 10 = 20$
II. $9 \spadesuit 12 = 36$
III. $8 \spadesuit 14 = 28$
IV. $8 \spadesuit 6 = ?$
A) 12
B) 14
C) 16
D) 18
E) 20

4. I. $7 \circ 25 = 24$
II. $6 \circ 18 = 18$
III. $9 \circ 23 = 58$
IV. $5 \circ 12 = ?$
A) 12
B) 13
C) 14
D) 15
E) 16

5. I. $7 * 4 = 17$
II. $6 * 6 = 12$
III. $5 * 7 = 8$
IV. $8 * 5 = ?$
A) 16
B) 17
C) 18
D) 19
E) 20

6. I. $4 \oplus 14 = 50$
II. $5 \oplus 42 = 83$
III. $2 \oplus 3 = 5$
IV. $3 \oplus 14 = ?$
A) 13
B) 14
C) 15
D) 16
E) 17

7. I. $19 \times 17 = 6$

II. $23 \times 26 = 7$

III. $9 \times 16 = 5$

IV. $38 \times 26 = ?$

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

8. I. $234 * 326 = 60$

II. $451 * 426 = 68$

III. $332 * 542 = 58$

IV. $621 * 823 = ?$

- A) 60
- B) 62
- C) 64
- D) 66
- E) 68

9. I. $a \odot b = a + 2b - 1$

II. $a \blacktriangle b = a - b + 7$

III. $(4 \odot 6) \odot (2 \blacktriangle 5) = ?$

- A) 19
- B) 20
- C) 21
- D) 22
- E) 23

10. I. $a \# b = 2a + b$

II. $a \# b = a + b^2 + 3$

III. $(5 \# 3) \# (2 \# 6) = ?$

- A) 37
- B) 62
- C) 75
- D) 81
- E) 96

11. I. $a \star b = 3a + 2b$

II. $a \star b = 2a + 3b$

III. $a \star b = 2(a - b)$

IV. $(4 \star 6) \star (3 \star 4) = ?$

- A) 6
- B) 8
- C) 10
- D) 12
- E) 14

12. I. $a \clubsuit b = \frac{a+b}{2}$

II. $a \star b = \frac{3 \cdot (a+b)}{4}$

III. $a \# b = \frac{a^2 - b^2}{3}$

IV. $(7 \star 21) \star (3 \# 3) = ?$

- A) 6
- B) 9
- C) 12
- D) 15
- E) 18

Yanıtlar / Answers

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

1. I. $23 \blacktriangle 32 = 55$
II. $41 \blacktriangle 26 = 58$
III. $17 \blacktriangle 53 = 88$
IV. $94 \blacktriangle 35 = ?$
A) 18
B) 63
C) 108
D) 129
E) 138

2. I. $3 \triangle 8 = 11$
II. $14 \triangle 19 = 11$
III. $89 \triangle 18 = 8$
IV. $37 \triangle 56 = ?$
A) 3
B) 4
C) 5
D) 6
E) 7

3. I. $4 \bullet 12 = 7$
II. $5 \bullet 14 = 10$
III. $12 \bullet 6 = 9$
IV. $18 \bullet 7 = ?$
A) 3
B) 5
C) 7
D) 9
E) 11

4. I. $16 \oplus 16 = 6$
II. $53 \oplus 22 = 35$
III. $17 \oplus 19 = 18$
IV. $63 \oplus 14 = ?$
A) 24
B) 27
C) 32
D) 36
E) 49

5. I. $\blacktriangle 32 = 25$
II. $\blacktriangle 11 = 4$
III. $\blacksquare 74 = 9$
IV. $\blacksquare 82 = 36$
V. $\blacktriangle 42 - (\blacksquare 73 - \blacktriangle 21) = ?$
A) 64
B) 48
C) 44
D) 42
E) 29

6. I. $6 \square 2 = 12 \square 4$
II. $15 \square 3 = 25 \square 5$
III. $27 \square 3 = ?$
A) $18 \square 3$
B) $21 \square 7$
C) $30 \square 6$
D) $32 \square 4$
E) $36 \square 4$

7. I. $3 \square 5 = 12 \triangle 4$
II. $15 \square 4 \Rightarrow 30 \triangle 11$
III. $(50 \triangle 40) \square 8 = ?$
A) 18
B) 12
C) 8
D) 2
E) 0

8. I. $* \triangle = \triangle \triangle$
II. $\star \circ = \circ \circ \circ$
III. $\star (*5 + 47) = ?$
A) 24
B) 88
C) 171
D) 282
E) 666

9. I. $\triangle 100 = 200$
II. $\square 500 = 250$
III. $\triangle 400 + \square 700 = ?$
A) 1250
B) 1150
C) 1025
D) 1000
E) 950

10. I. $\triangle 976 = 865$
II. $\circ 751 = 862$
III. $\triangle 766 + \circ 200 = ?$
A) 966
B) 965
C) 964
D) 963
E) 962

11. I. $2, 9 = 81$
II. $3, 4 = 64$
III. $2, 25 = 625$
IV. $3, 2 = 8$
V. $3, 5 = ?$
A) 255
B) 225
C) 125
D) 75
E) 15

12. I. $16 \blacksquare = 5,7$
II. $\oplus 48 = 32$
III. $\oplus 47 \blacksquare = 18 \blacksquare = 7,9$
IV. $\oplus 27 \blacksquare = ?$
A) 5,5
B) 6,11
C) 7,11
D) 6,9
E) 10,9

Yanıtlar / Answers

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

1. I. $5 \square = 1025$

II. $7 \square = 1449$

III. $9 \square = 1881$

IV. $4 \square = ?$

A) 968

B) 861

C) 816

D) 186

E) 168

4. I. $8 \star 4 = 48$

II. $12 \star 6 = 108$

III. $10 \star 4 = 84$

IV. $5 \star 8 = ?$

A) 9

B) 16

C) 64

D) 72

E) 96

2. I. $27 \boxtimes 18 = 2178$

II. $98 \boxtimes 42 = 9482$

III. $45 \boxtimes 64 = 4654$

IV. $57 \boxtimes 85 = ?$

A) 5785

B) 5578

C) 5875

D) 8565

E) 5878

5. I. $5 \triangle = 9, 11$

II. $10 \triangle = 19, 21$

III. $\square 52 = 10$

IV. $\square 34 \triangle = ?$

A) 7,9

B) 14,16

C) 17,18

D) 21,22

E) 23,25

3. I. $49 \square 81 = 63$

II. $64 \square 25 = 40$

III. $9 \square 121 = ?$

A) 24

B) 33

C) 44

D) 54

E) 64

6. I. $12 \blacksquare = 36$

II. $41 \blacksquare = 510$

III. $22 \blacksquare = 48$

IV. $23 \blacksquare = ?$

A) 105

B) 115

C) 510

D) 705

E) 805

7. I. $7 \bullet 9 \star 4 = 64$
 II. $5 \bullet 8 \star 5 = 65$
 III. $6 \star 4 \bullet 2 = 26$
 IV. $8 \star 3 \bullet 6 = ?$
 A) 30
 B) 66
 C) 72
 D) 82
 E) 101

8. I. $\square 21 = 9, 1$
 II. $\square 53 = 64, 4$
 III. $\square 72 = 81, 25$
 IV. $\square 93 = ?$
 A) 37, 3
 B) 144, 36
 C) 36, 9
 D) 81, 9
 E) 144, 6

9. I. $a \square \rightarrow a + 2$
 II. $(a \square) \triangle \rightarrow 3a + 6$
 III. $(9 \triangle) \square \rightarrow ?$
 A) 23
 B) 25
 C) 27
 D) 29
 E) 31

10. I. $1 \square 12 = 12$
 II. $9 \square 8 = 8$
 III. $29 \square 17 = 17$
 IV. $[(8 \square 6) \square (9 \square 4)] \square 12 = ?$
 A) 6
 B) 4
 C) 9
 D) 12
 E) 14

11. I. $40 \square = 16$
 II. $20 \square = 4$
 III. $44 \square = ?$
 A) 108
 B) 96
 C) 72
 D) 64
 E) 48

12. I. $a \triangle = a + 2$
 II. $a \square = 2 \cdot a$
 III. $7 \triangle \square - 7 \square \triangle = ?$
 A) 1
 B) 2
 C) 3
 D) 4
 E) 5

Yanıtlar / Answers

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

1. I. $34 \star 12 = 21$
II. $62 \star 13 = 32$
III. $11 \star 33 = 12$
IV. $54 \star 14 = ?$
A) 64
B) 53
C) 45
D) 36
E) 30

2. I. $\star 6 = 4$
II. $\bullet 3 = 4$
III. $\star \star \bullet 4 = ?$
A) 3
B) 4
C) 5
D) 6
E) 7

3. I. $36 \square = 6$
II. $(140 \star) = 124$
III. $(160 \star) : \square = ?$
A) 11
B) 12
C) 15
D) 16
E) 25

4. I. $68 \square 45 = 21$
II. $34 \square 68 = 12$
III. $17 \square 11 = 60$
IV. $36 \square 24 = ?$
A) 15
B) 27
C) 32
D) 40
E) 64

5. I. $2 \blacktriangle 3 = 1; 5; 6$
II. $5 \blacktriangle 12 = 7; 17; 60$
III. $4 \blacktriangle 9 = 5; 13; 36$
IV. $4 \blacktriangle 4 = ?; ?; ?$
A) 4; 8; 12
B) 0; 8; 16
C) 4; 8; 16
D) 0; 4; 12
E) 1; 8; 16

6. I. $4 \bullet 5 = 1; 18$
II. $6 \bullet 9 = 3; 30$
III. $2 \bullet 3 = 1; 10$
IV. $4 \bullet 9 = ?; ?$
A) 5; 24
B) 5; 13
C) 13; 36
D) 13; 72
E) 5; 26

7. I. $4 \blacksquare 2 = 4$
 II. $8 \blacksquare 3 = 25$
 III. $9 \blacksquare 2 = 49$
 IV. $6 \blacksquare 5 = ?$
 A) 1
 B) 4
 C) 9
 D) 16
 E) 30

8. I. $4 \blacktriangle 5 = 16$
 II. $6 \blacktriangle 8 = 42$
 III. $3 \blacktriangle 9 = 24$
 IV. $6 \blacktriangle 4 = ?$
 A) 14
 B) 15
 C) 16
 D) 17
 E) 18

9. I. $44 \triangle 2 = 36$
 II. $51 \triangle 3 = 24$
 III. $80 \triangle 4 = ?$
 A) 16
 B) 32
 C) 54
 D) 72
 E) 80

10. I. $128 = 9, 3$
 II. $135 = 9, 1$
 III. $148 = ?$
 A) 12, 2
 B) 13, 7
 C) 13, 3
 D) 13, 8
 E) 13, 4

11. I. $12 \star 11 = 20$
 II. $26 \star 18 = 41$
 III. $5 \star 8 = 10$
 IV. $17 \star 10 = ?$
 A) 33
 B) 34
 C) 28
 D) 24
 E) 19

12. I. $2438 \blacksquare = 8342$
 II. $2438 \bullet = 2348$
 III. $(KLMN \blacksquare) \bullet = ?$
 A) NMKL
 B) NLMK
 C) KLMN
 D) NKLM
 E) LMKN

Yanıtlar / Answers

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

1. I. $5 \star 2 = (3, 7, 10)$

II. $4 \star 3 = (1, 7, 8)$

III. $2 \star 1 = (1, 3, 4)$

IV. $3 \star 1 = ?$

A) $(2, 4, 6)$

B) $(2, 4, 3)$

C) $(1, 2, 3)$

D) $(3, 2, 6)$

E) $(2, 3, 6)$

4. I. $(3 \blacksquare 2) = 5$

II. $(4 \blacksquare 3) = 7$

III. $(2 \blacktriangle 1) = 5$

IV. $(3 \blacktriangle 2) = 13$

V. $(5 \blacksquare 4) \blacktriangle 1 = ?$

A) 37

B) 50

C) 65

D) 82

E) 101

2. I. $4 \bowtie 7 = 14$

II. $5 \bowtie 9 = 17$

III. $3 \bowtie 6 = 12$

IV. $6 \bowtie 2 = ?$

A) 15

B) 13

C) 11

D) 9

E) 7

5. I. $8195 \bullet = 845$

II. $4263 \bullet = 818$

III. $2244 \bullet = 416$

IV. $5172 \bullet = ?$

A) 510

B) 512

C) 514

D) 516

E) 518

3. I. $12 \spadesuit 4 = 24$

II. $16 \spadesuit 10 = 18$

III. $29 \spadesuit 20 = 27$

IV. $34 \spadesuit 26 = ?$

A) 18

B) 22

C) 24

D) 28

E) 36

6. I. $438 \star = 348$

II. $635 \blacksquare = 356$

III. $274 \blacktriangle = 247$

IV. $((983 \star) \blacksquare) \blacktriangle = ?$

A) 398

B) 839

C) 893

D) 938

E) 983

7. I. $2 \supset 3 = 35$
 II. $4 \supset 2 = 72$
 III. $5 \supset 2 = 133$
 IV. $1 \supset 4 = ?$
 A) 26
 B) 37
 C) 50
 D) 65
 E) 126

8. I. $\star 325 = 10$
 II. $\bullet 27 = 14$
 III. $\bullet (\star 987) = \bullet 24 = 8$
 IV. $\star (\bullet 87) = ?$
 A) 5
 B) 7
 C) 8
 D) 11
 E) 15

9. I. $2 \blacksquare 3 = 5,6$
 II. $4 \blacksquare 2 = 6,8$
 III. $5 \blacksquare 1 = ?$
 A) 5,5
 B) 6,5
 C) 5,8
 D) 6,2
 E) 6,6

10. I. $4 \triangleleft 7 = 19$
 II. $5 \triangleleft 9 = 24$
 III. $11 \triangleleft 12 = 45$
 IV. $14 \triangleleft 6 = ?$
 A) 28
 B) 32
 C) 36
 D) 42
 E) 48

11. I. $7969 \square 84 = 3$
 II. $98 \square 23 = 12$
 III. $29 \square 61 = 4$
 IV. $47 \square 13 = ?$
 A) 6
 B) 7
 C) 8
 D) 9
 E) 10

12. I. $a \triangle = 4a + 2$
 II. $a \square = \frac{3a}{2}$
 III. $(4 \triangle) \square = ?$
 A) 27
 B) 36
 C) 54
 D) 81
 E) 96

Yanıtlar / Answers

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

1. I. $a \oplus b = a + b - 1$
 II. $a \bullet b = a - b + 1$
 III. $a \blacktriangle b = a + b + 1$
 IV. $(12 \blacktriangle 6) \bullet (8 \oplus 13) = ?$
 A) -2
 B) -1
 C) 0
 D) 1
 E) 2

4. I. $a \nabla b = a^b$
 II. $a \checkmark b = b^a$
 III. $a \heartsuit b = (a + b)^2$
 IV. $(2 \checkmark 3) \heartsuit (3 \nabla 2) = ?$
 A) 284
 B) 314
 C) 324
 D) 364
 E) 414

2. I. $a \square b = a + 2b$
 II. $a \blacktriangledown b = 3a + b$
 III. $a \spadesuit b = 2a + 3b$
 IV. $(3 \blacktriangledown 3) \spadesuit (5 \square 5) = ?$
 A) 100
 B) 102
 C) 104
 D) 106
 E) 108

5. I. $a \boxtimes b = a^3 + b$
 II. $a \oslash b = \frac{a+b}{2}$
 III. $a \otimes b = a - b$
 IV. $(24 \otimes 10) \oslash (3 \boxtimes 7) = ?$
 A) 20
 B) 24
 C) 28
 D) 32
 E) 36

3. I. $a \uplus b = a^2 + b$
 II. $a \star b = a + b^2$
 III. $a \text{ } \text{ } b = a^2 + b^2$
 IV. $(3 \uplus 4) \text{ } \text{ } (6 \star 3) = ?$
 A) 390
 B) 392
 C) 394
 D) 396
 E) 398

6. I. $a \Subset b = 4a + b$
 II. $a \oslash b = \frac{1}{a} + \frac{1}{b}$
 III. $a \otimes b = (ab) + 1$
 IV. $(4 \Subset 6) \oslash (\frac{1}{3} \otimes \frac{1}{4}) = ?$
 A) 103
 B) 104
 C) 105
 D) 106
 E) 107

7. I. $a \otimes b = \frac{1}{a} + b$

II. $a \oplus b = a + \frac{1}{b}$

III. $a \otimes b = \frac{1}{a+b}$

IV. $(2 \otimes 3) \oplus (4 \oplus 2) = ?$

A) $\frac{1}{16}$

B) $\frac{1}{8}$

C) 1

D) 8

E) 16

8. I. $a \otimes b = 3a + 2b$

II. $a \oplus b = a + b^2 + 1$

III. $a \otimes b = \frac{a^2 + b}{4}$

IV. $(6 \otimes 4) \oplus (5 \otimes 3) = ?$

A) 73

B) 74

C) 75

D) 76

E) 77

9. I. $a \otimes b = \frac{a+b}{3}$

II. $a \oplus b = \frac{a+2b}{4}$

III. $a \otimes b = 3(a + 3b)$

IV. $(4 \otimes 4) \oplus (21 \otimes 27) = ?$

A) 16

B) 18

C) 20

D) 22

E) 24

10. I. $a \otimes b = \frac{a}{b} - 1$

II. $a \oplus b = \frac{a \cdot b}{2}$

III. $a \otimes b = (a + b) \cdot 3$

IV. $(9 \otimes 4) \oplus (15 \otimes 3) = ?$

A) 76

B) 78

C) 80

D) 82

E) 84

11. I. $a \otimes b = a + 4b$

II. $a \oplus b = b - 3a$

III. $a \otimes b = 2a + 3b$

IV. $(4 \otimes 8) \oplus (4 \oplus 22) = ?$

A) 94

B) 96

C) 98

D) 100

E) 102

12. I. $a \otimes b = a^2 + b^3$

II. $a \oplus b = \frac{b}{a}$

III. $a \otimes b = a \cdot b + b$

IV. $(5 \otimes 6) \oplus (3 \otimes 3) = ?$

A) $\frac{1}{2}$

B) 1

C) 2

D) $\frac{5}{2}$

E) 3

Yanıtlar / Answers

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

1. I. $2a \oplus b = a + b$
 II. $a \odot 3b = a \cdot b$
 III. $(8 \oplus 9) + (10 \odot 4) = ?$
 A) 32
 B) 33
 C) 34
 D) 35
 E) 36

4. I. $a \triangleleft 5 \cdot b = a^2 + b$
 II. $a^3 \checkmark b = a + b^2$
 III. $(64 \checkmark 3) + (9 \triangleleft 30) = ?$
 A) 100
 B) 101
 C) 102
 D) 103
 E) 104

2. I. $3a \square b = a + 2 \cdot b$
 II. $a \blacktriangledown b^2 = a \cdot b$
 III. $(9 \blacktriangledown 16) + (12 \square 5) = ?$
 A) 44
 B) 48
 C) 50
 D) 52
 E) 54

5. I. $3 \cdot a \otimes b = 2 \cdot a + 3 \cdot b$
 II. $a \otimes 4 \cdot b = 3 \cdot a + 2 \cdot b$
 IV. $(8 \otimes 16) - (12 \otimes 2) = ?$
 A) 12
 B) 14
 C) 16
 D) 18
 E) 20

3. I. $a^2 \nabla 3 \cdot b = a + b + 1$
 II. $4 \cdot a \star b = b - a$
 III. $(25 \nabla 9) - (8 \star 5) = ?$
 A) 5
 B) 6
 C) 7
 D) 8
 E) 9

6. I. $5 \cdot a \& 2 \cdot b = a + b$
 II. $3 \cdot a \& 4 \cdot b = a - b$
 III. $(27 \& 20) + (45 \& 8) = ?$
 A) 13
 B) 14
 C) 15
 D) 16
 E) 17

7. I. $2a \div b^2 = \frac{a+b}{2}$
 II. $a^3 \div 3b = a + 2b + 1$
 III. $(18 \div 49) + (64 \div 21) = ?$
 A) 27
 B) 28
 C) 29
 D) 30
 E) 31

8. I. $a^2 \div b^3 = 3a - 2b$
 II. $a^4 \div b^5 = a^2 + b^3$
 III. $(121 \div 125) - (81 \div 32) = ?$
 A) 6
 B) 7
 C) 8
 D) 9
 E) 10

9. I. $4a \div 2b = a^2 + b^2$
 II. $a^3 \div b^2 = 8a + 5b$
 IV. $(64 \div 25) + (16 \div 8) = ?$
 A) 88
 B) 89
 C) 90
 D) 91
 E) 92

10. I. $\frac{x}{2} \div \frac{y}{3} = 4x + y$
 II. $\frac{2x}{3} \div \frac{3y}{4} = x^2 - y^2$
 III. $(10 \div 4) + (8 \div 9) = ?$
 A) 90
 B) 91
 C) 92
 D) 93
 E) 94

11. I. $a^4 \div b = a + b^2$
 II. $a \div b^2 = a^2 + b^2$
 III. $a^3 \div b^2 = a + b$
 IV. $(27 \div 25) + (4 \div 8) + (16 \div 4) = ?$
 A) 92
 B) 94
 C) 96
 D) 98
 E) 100

12. I. $2a \div 3b = a + b + 2$
 II. $4a \div b^2 = a^2 + b - 2$
 III. $a^3 \div \frac{b}{2} = \frac{a}{3} + 3b + 3$
 IV. $(12 \div 64) + (27 \div 15) - (64 \div 6) = ?$
 A) 69
 B) 70
 C) 71
 D) 72
 E) 73

Yanıtlar / Answers

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

1. I. $a \star b = 2 \cdot (a \bullet b)$

II. $a \bullet b = (a + b) \cdot 3$

III. $(4 \star 3) = ?$

A) 36

B) 38

C) 40

D) 42

E) 44

2. I. $a \blacksquare b = \frac{a \bullet b}{2}$

II. $a \bullet b = a + b - 2$

III. $6 \blacksquare (8 \blacksquare 10) = ?$

A) 4

B) 6

C) 8

D) 10

E) 12

3. I. $a \bigcirc b = a^2 \blacksquare b$

II. $a \blacksquare b = (a \cdot b) - a$

III. $2 \bigcirc (4 \blacksquare 3) = ?$

A) 20

B) 24

C) 28

D) 32

E) 36

4. I. $a \times b = 3 \cdot a \cdot (b - 12)$

II. $a \oslash b = a^2 - b^2$

III. $(3 \oslash 2) \times (6 \oslash 3) = ?$

A) 0

B) 1

C) 2

D) 3

E) 4

5. I. $a \oplus b = a^b \bullet 1$

II. $a \bullet b = (a + 2 \cdot b + 2)$

III. $(6 \oplus 2) \bullet (3 \oplus 4) = ?$

A) 210

B) 211

C) 212

D) 213

E) 214

6. I. $a \blacksquare b = a \sqrt{b+1}$

II. $a \sqrt{b} = (a - 2) \cdot b$

III. $(4 \sqrt{3}) \blacksquare (2 \sqrt{4}) = ?$

A) 232

B) 234

C) 236

D) 238

E) 240

7. I. $a \star b = 2 \cdot a \bullet (b + 2)$

II. $a \bullet b = \frac{(a+2)}{b}$

III. $(10 \bullet 4) \star (16 \bullet 9) = ?$

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

8. I. $a \blacktriangle b = 4 \cdot a \star b^2$

II. $a \star b = 2 \cdot a + \frac{b}{2}$

III. $(12 \blacktriangle 4) \star (4 \blacktriangle 6) = ?$

- A) 231
B) 232
C) 233
D) 234
E) 235

9. I. $a \otimes b = a^b \otimes b^a$

II. $a \oslash b = (a - b) + 2$

III. $(3 \otimes 2) \oslash (4 \otimes 1) = ?$

- A) -2
B) -1
C) 0
D) 1
E) 2

10. I. $a \odot b = a \bullet 3 \cdot b$

II. $a \bullet b = 2 \cdot a - b$

III. $(4 \bullet 3) \odot (6 \odot 2) = ?$

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

11. I. $a \blacktriangle b = 2 \cdot a \bullet b$

II. $a \bullet b = a \otimes 3 \cdot b$

III. $a \otimes b = 3 \cdot a + 2 \cdot b$

IV. $(4 \bullet 3) \otimes (2 \blacktriangle 5) = ?$

- A) 172
B) 174
C) 176
D) 178
E) 180

12. I. $a \times b = \frac{a \bullet b}{2}$

II. $a \blacktriangle b = 4 \cdot (a \times b)$

III. $a \bullet b = a^2 + b$

IV. $(2 \bullet 6) \times (3 \blacktriangle 1) = ?$

- A) 20
B) 40
C) 60
D) 80
E) 100

Yanıtlar / Answers

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

1. I. $\frac{10}{(a \div b)} = 2a - b$

II. $(4 \div 2) = ?$

A) $\frac{1}{10}$

B) $\frac{1}{5}$

C) 1

D) 5

E) 10

2. I. $\frac{1}{2 \cdot (a \cdot b)} = \frac{1}{a^2 + b}$

II. $(2 \cdot 4) = ?$

A) 2

B) 4

C) 6

D) 8

E) 10

3. I. $\frac{2}{\frac{(a \cdot b)}{2}} = \frac{3 \cdot a + 5 \cdot b}{2}$

II. $(1 \cdot 3) = ?$

A) $\frac{3}{4}$

B) $\frac{1}{2}$

C) $\frac{4}{9}$

D) $\frac{9}{4}$

E) $\frac{10}{3}$

4. I. $\frac{1}{\frac{1}{(a \cdot b)}} = \frac{1}{a - b + 2}$

II. $(14 \cdot 15) = ?$

A) 2

B) 1

C) 0

D) -1

E) -2

5. I. $\frac{1}{1 + \frac{1}{(a \cdot b)}} = 1 + \frac{1}{a^2 + b^2}$

II. $(1 \cdot 2) = ?$

A) -4

B) -5

C) -6

D) -7

E) -8

6. I. $\frac{1}{(a \cdot b) - \frac{1}{2}} = \frac{2}{a + 3b}$

II. $(6 \cdot 3) = ?$

A) 4

B) 5

C) 6

D) 7

E) 8

7. I. $\frac{3}{2 \cdot (a \diamond b) - 1} = \frac{2}{a + 2 \cdot b + 2}$

II. $(4 \diamond 6) = ?$

- A) 8
- B) 10
- C) 12
- D) 14
- E) 16

8. I. $2 - \frac{1}{6 \cdot (a \otimes b)} = \frac{1}{4 \cdot a + 3 \cdot b}$

II. $(1 \otimes 2) = ?$

- A) $\frac{5}{57}$
- B) $\frac{5}{19}$
- C) 1
- D) 4
- E) $\frac{19}{5}$

9. I. $4 - \frac{7}{\frac{(a * b)}{2}} = \frac{1}{a - 2b}$

II. $(8 * 3) = ?$

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

10. I. $\frac{6}{\frac{1}{(a \rightarrow b) - 2}} = \frac{1}{\frac{a^3 + b}{2}}$

II. $(2 \rightarrow 4) = ?$

- A) -2
- B) $-\frac{71}{36}$
- C) $-\frac{35}{18}$
- D) $-\frac{13}{6}$
- E) -4

11. I. $\frac{4 + (a \blacktriangle b)}{2 + 6 \cdot (a \blacktriangle b)} = \frac{2}{3 + a + 3 \cdot b}$

II. $(4 \blacktriangle 1) = ?$

- A) 16
- B) 18
- C) 20
- D) 22
- E) 24

12. I. $1 + \frac{(a \oplus b)}{3} = \frac{4}{2 \cdot (a \oplus b) - 2} = \frac{4}{(a + b) \cdot 2}$

II. $(4 \oplus 2) = ?$

- A) 4
- B) 3
- C) 2
- D) 1
- E) 0

Yanıtlar / Answers

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

1. I. $a \oplus b = a^2 + 4b - a \cdot b$

II. $5 \oplus 9 = ?$

A) 18

B) 20

C) 22

D) 24

E) 26

4. I. $a \blacktriangle b = a + 2 \cdot b$

II. $a \bullet b = 3a - b$

III. $(4 \blacktriangle 3) + (4 \bullet 5) = ?$

A) 16

B) 17

C) 18

D) 19

E) 20

2. I. $a \star b = a^b + b^a$

II. $(3 \star 4) = ?$

A) 145

B) 144

C) 143

D) 142

E) 141

5. I. $a \star b = a + 4b + 1$

II. $a \bullet b = 3a - b + 4$

III. $(6 \bullet 12) + (9 \star 3) = ?$

A) 28

B) 30

C) 32

D) 34

E) 36

3. I. $a \blacksquare b = a^2 - b$

II. $a \bullet b = \frac{a+b}{2}$

III. $(8 \bullet 6) \blacksquare 9 = ?$

A) 36

B) 37

C) 38

D) 39

E) 40

6. I. $a \heartsuit b = 3a + 2b$

II. $a \clubsuit b = b^a$

III. $(3 \heartsuit 5) - (2 \clubsuit 5) = ?$

A) 9

B) 10

C) 11

D) 12

E) 13

7. I. $8x \heartsuit 3y = x^2 - 2y + xy$
 II. $4a \clubsuit 5b = 2ab - b^2$
 III. $(24 \heartsuit 18) - (16 \clubsuit 35) = ?$
 A) 2
 B) 3
 C) 4
 D) 5
 E) 8

8. I. $\frac{1}{2 + \frac{3}{a \times b}} = \frac{1}{a \times b}$
 II. $a \times b = ?$
 A) -1
 B) -2
 C) -3
 D) -4
 E) -5

9. I. $16 \bowtie 7 = \frac{23}{8}$
 II. $24 \bowtie 3 = \frac{9}{4}$
 III. $38 \bowtie 12 = \frac{50}{19}$
 IV. $52 \bowtie 17 = ?$
 A) $\frac{69}{28}$
 B) $\frac{69}{26}$
 C) $\frac{68}{17}$
 D) $\frac{68}{15}$
 E) $\frac{26}{69}$

10. I. $\frac{1}{1 + \frac{1}{a \blacksquare b}} = \frac{2}{(a+b)/2}$
 II. $(4 \blacksquare 4) = ?$
 A) 1
 B) 2
 C) 3
 D) 4
 E) 5

11. I. $8y \heartsuit 3x = 2y - x + xy$
 II. $9b \blacksquare 3a = 3b + 9a$
 III. $8c \bullet 2d = 2c - d$
 IV. $(32 \heartsuit 30) + (27 \blacksquare 12) - (24 \bullet 10) = ?$
 A) 80
 B) 81
 C) 82
 D) 83
 E) 84

12. I. $a \blacktriangle b = 4a - b^2$
 II. $a \oplus b = ab - 5$
 III. $a * b = 2ab + b$
 IV. $((2 * 3) \oplus 4) \blacktriangle 14 = ?$
 A) 24
 B) 25
 C) 26
 D) 27
 E) 28

Yanıtlar / Answers

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

1. I. $(7 \blacktriangle 8) \square 2 = 28$
 II. $(4 \square 2) \blacktriangle 5 = 10$
 III. $48 \square (3 \blacktriangle 8) = 2$
 IV. $(18 \square 6) \blacktriangle 18 = ?$
 A) 50
 B) 51
 C) 52
 D) 53
 E) 54

4. I. $x \square y = (x \circ y) + 3$
 II. $x \circ y = (a \blacktriangle b) - 8$
 III. $a \blacktriangle b = a^2 - b$
 IV. $(4 \square 8) + (3 \square 8) + 4 \cdot (3 \blacktriangle 8) = ?$
 A) 0
 B) 1
 C) 3
 D) 5
 E) 7

2. I. $a \circ b = \frac{(a-b)+8}{2}$
 II. $a \blacktriangle b = (a \circ b) - 8$
 III. $a \circ b = a \cdot b + 8$
 IV. $6 \cdot (3 \circ 4) - (4 \blacktriangle 7) = ?$
 A) 0
 B) 1
 C) 2
 D) 3
 E) 4

5. I. $a \square b = (a \blacktriangle b) \times 4$
 II. $a \blacktriangle b = (a \circ b) + 17$
 III. $a \circ b = \frac{ab}{3} \cdot 7$
 IV. $(6 \square 9) - 3(9 \circ 7) = ?$
 A) 129
 B) 130
 C) 131
 D) 134
 E) 135

3. I. $a \circ b = \frac{(a \blacktriangle b) - 3}{5}$
 II. $a \square b = 3(a \blacktriangle b)$
 III. $a \blacktriangle b = a + b - 3$
 IV. $3 \cdot (4 \circ 3) - (3 \square 4) \div (3 \blacktriangle 3) = ?$
 A) 1
 B) 2
 C) 3
 D) 4
 E) 5

6. I. $x \circ y = (x \circ y) + x^2 - y^2$
 II. $x \circ y = (x \blacktriangle y) - x$
 III. $x \blacktriangle y = x^2 - y^2$
 IV. $(9 \circ 8) - 2 \cdot (4 \circ 3) = ?$
 A) 15
 B) 16
 C) 17
 D) 18
 E) 19

7. I. $a \otimes b = (a \triangle b) - a$
 II. $a \triangle b = (a \oplus b) - a$
 III. $a \oplus b = (ab + a - b)$
 IV. $(9 \otimes 3) + (7 \triangle 4) - (8 \oplus 5) = ?$
 A) 3
 B) 4
 C) 5
 D) 6
 E) 7

8. I. $a \square b = (a \triangle b) + ab$
 II. $a \triangle b = (a \bigcirc b) - a^2 + 3b$
 III. $a \bigcirc b = 3ab - 4b$
 IV. $4 \times (8 \square 3) - 4(3 \bigcirc 5) = ?$
 A) 10
 B) 12
 C) 14
 D) 15
 E) 16

9. I. $a \vee b = (a \otimes b) + a^2$
 II. $a \otimes b = (a \Rightarrow b) - \sqrt{ab}$
 III. $a \Rightarrow b = ab - a^2$
 IV. $(6 \vee 2) = ?$
 A) 70
 B) 71
 C) 72
 D) 73
 E) 74

10. I. $a \star b = (a \otimes b) - 3a$
 II. $a \otimes b = (a * b) - b^2$
 III. $a * b = a^2 + b^2 - ab$
 IV. $(17 \star 14) = ?$
 A) 0
 B) 1
 C) 2
 D) 3
 E) 4

11. I. $3542 = 42$
 II. $2876 = 69$
 III. $1689 = 72$
 IV. $8490 = ?$
 A) 60
 B) 61
 C) 62
 D) 63
 E) 64

12. I. $4789 * 8921 = 8$
 II. $3519 * 4732 = 2$
 III. $3761 * 1248 = 2$
 IV. $4827 * 8217 = ?$
 A) 1
 B) 2
 C) 3
 D) 4
 E) 5

Yanıtlar / Answers

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

1. I. $4 \star 3 = 35$
II. $2 \star 4 = 30$
III. $7 \star 2 = 45$
IV. $6 \star 4 = ?$
A) 45
B) 50
C) 55
D) 60
E) 65

4. I. $7 \square 8 = 41$
II. $9 \square 5 = 31$
III. $8 \square 3 = 13$
IV. $6 \square 7 = ?$
A) 26
B) 27
C) 28
D) 29
E) 30

2. I. $(3, 5) \star (7, 8) = (10; 40)$
II. $(2, 6) \star (4, 5) = (6; 30)$
III. $(5, 4) \star (2, 3) = ?, ?$
A) (7, 7)
B) (7, 16)
C) (7, 43)
D) (10, 12)
E) (7, 12)

5. I. $a \star b = \frac{a^2 + b^2}{2}$
II. $a \bullet b = \frac{a \times b}{2}$
III. $(6 \star 4) \bullet (8 \bullet 3) = ?$
A) 156
B) 144
C) 121
D) 196
E) 214

3. I. $\bullet 124 = 8$
II. $\bullet 422 = 16$
III. $\bullet 351 = 15$
IV. $\bullet 411 = ?$
A) 1
B) 2
C) 3
D) 4
E) 5

6. I. $8 \blacktriangle 4 = 64$
II. $9 \blacktriangle 8 = 1$
III. $6 \blacktriangle 4 = 8$
IV. $10 \blacktriangle 7 = ?$
A) 25
B) 26
C) 27
D) 28
E) 30

7. I. $7 \blacktriangle 2 = 5$; 45
 II. $6 \blacktriangle 4 = 2$; 20
 III. $5 \blacktriangle 2 = 3$; 21
 IV. $3 \blacktriangle 1 = ?$; ?
 A) 2; 6
 B) 2; 7
 C) 2; 8
 D) 2; 9
 E) 3; 8

8. I. $3 \clubsuit 2 = 23$
 II. $4 \clubsuit 6 = 28$
 III. $5 \clubsuit 9 = 44$
 IV. $2 \clubsuit 1 = ?$
 A) 0
 B) 1
 C) 2
 D) 5
 E) 7

9. I. $6 \odot 4 = 19$
 II. $9 \odot 7 = 31$
 III. $5 \odot 3 = 15$
 IV. $8 \odot 5 = ?$
 A) 24
 B) 38
 C) 42
 D) 56
 E) 62

10. I. $463 \oslash = 24$
 II. $283 \oslash = 16$
 III. $965 \oslash = 90$
 IV. $876 \oslash = ?$
 A) 72
 B) 84
 C) 96
 D) 108
 E) 112

11. I. $4 \bullet 5 = 19$
 II. $6 \bullet 8 = 30$
 III. $9 \bullet 3 = 18$
 IV. $5 \bullet 7 = ?$
 A) 23
 B) 24
 C) 25
 D) 26
 E) 27

12. I. $[(7 \oplus 4) \square 3] \blacktriangle 2 = 29$
 II. $[(5 \oplus 6) \square 8] \blacktriangle 6 = 32$
 III. $[(9 \oplus 3) \square 4] \blacktriangle 5 = 26$
 IV. $[(2 \oplus 5) \square 5] \blacktriangle 7 = ?$
 A) 47
 B) 48
 C) 49
 D) 50
 E) 51

Yanıtlar / Answers

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

1. I. $975 * = 23$
II. $386 * = 19$
III. $754 * = 18$
IV. $695 * = ?$

A) 20
B) 21
C) 22
D) 23
E) 24

2. I. $\odot 622 \odot = 8,4$
II. $\odot 841 \odot = 9,5$
III. $\odot 743 \odot = ?$

A) 9,7
B) 11,7
C) 10,7
D) 11,3
E) 10,1

3. I. $\Delta 532 = 9,5$
II. $\Delta 621 = 8,3$
III. $\Delta 832 = ?$

A) 10,1
B) 11,1
C) 11,5
D) 10,5
E) 10,3

4. I. $\bullet 631 = 10$
II. $\bullet 821 = 11$
III. $\bullet 854 \blacksquare = 6$
IV. $\bullet 943 \blacksquare = ?$

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

5. I. $\triangle 421 = 2,2$
II. $\triangle 821 = 4,2$
III. $\triangle 621 = ?$

A) 4,1
B) 3,2
C) 4,2
D) 1,4
E) 3,1

6. I. $\triangle 328 = 832$
II. $426 \square = 66$
III. $\triangle 218 \square = 81$
IV. $\triangle 336 \square = ?$

A) 28
B) 72
C) 82
D) 84
E) 55

7. I. $\star 684 = 468$ $265 \blacktriangle = 85$
 II. $\star 462 \blacktriangle = 66$ $\star 362 \blacktriangle = 56$
 III. $\star 415 \blacktriangle = ?$
 A) 95
 B) 91
 C) 85
 D) 81
 E) 72

8. I. $7 \star 3 = 30$
 II. $8 \star 7 = 45$
 III. $5 \star 9 = 42$
 IV. $7 \star 4 = ?$
 A) 27
 B) 30
 C) 33
 D) 36
 E) 39

9. I. $1 \blacktriangle 2 = 1, 4, 4$
 II. $2 \blacktriangle 3 = 4, 12, 9$
 III. $1 \blacktriangle 5 = 1, 10, 25$
 IV. $3 \blacktriangle 4 = ?$
 A) 4, 6, 16
 B) 9, 25, 16
 C) 9, 24, 16
 D) 9, 16, 16
 E) 6, 12, 16

10. I. $\blacktriangle 324 = 432$
 II. $145 \square = 55$
 III. $\blacktriangle 821 \square = 92$
 IV. $\blacktriangle 572 \square = 77$
 V. $\blacktriangle 213 \square = ?$
 A) 53
 B) 51
 C) 43
 D) 42
 E) 33

11. I. $\bullet 432 = 7,5$
 II. $\bullet 511 = 6,2$
 III. $\bullet 705 = 7,5$
 IV. $\bullet 100 = ?$
 A) 10,1
 B) 10,0
 C) 1,1
 D) 1,0
 E) 1,01

12. I. $5 \blacktriangle 4 = 1 : 20$
 II. $7 \blacktriangle 3 = 4 : 21$
 III. $4 \blacktriangle 3 = 1 : 12$
 IV. $6 \blacktriangle 6 = ? : ?$
 A) 0,12
 B) 0,36
 C) 1,12
 D) 1,36
 E) 12,36

Yanıtlar / Answers

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

1. I. $643 \ominus 48 = 24$
 II. $394 \ominus 27 = 81$
 III. $682 \ominus 33 = 63$
 IV. $824 \ominus 42 = ?$
 A) 20
 B) 22
 C) 24
 D) 26
 E) 28

4. I. $\triangle 517 = 67$
 II. $\square 438 = 843$
 III. $\triangle 465 \square = 510$
 IV. $\triangle 736 \square = ?$
 A) 510
 B) 610
 C) 160
 D) 105
 E) 106

2. I. $68 \odot = 34$
 II. $44 \odot = 8$
 III. $52 \odot = 3$
 IV. $66 \odot = ?$
 A) 16
 B) 18
 C) 20
 D) 22
 E) 24

5. I. $5 \bullet 4 = 10, 9, 8$
 II. $3 \bullet 6 = 6, 9, 12$
 III. $7 \bullet 1 = 14, 8, 2$
 IV. $8 \bullet 3 = ?$
 A) 16, 8, 6
 B) 18, 11, 6
 C) 16, 8, 3
 D) 15, 10, 3
 E) 16, 11, 6

3. I. $574 \div = 3528$
 II. $683 \div = 4824$
 III. $927 \div = 1814$
 IV. $752 \div = ?$
 A) 127
 B) 357
 C) 3412
 D) 3510
 E) 3840

6. I. $4 \oplus 3 = \frac{12}{7}$
 II. $3 \oplus 2 = \frac{6}{5}$
 III. $5 \oplus 2 = \frac{10}{7}$
 IV. $\frac{1}{a} \oplus \frac{1}{b} = ?$
 A) $a+b$ B) $\frac{1}{a+b}$ C) $\frac{ab}{a+b}$
 D) $\frac{a+b}{ab}$ E) $\frac{a}{a+b}$

7. I. $4 \nabla 2 = \frac{4}{3}$

II. $2 \nabla 1 = \frac{2}{3}$

III. $6 \nabla 5 = \frac{50}{11}$

IV. $7 \nabla 6 = ?$

A) $\frac{43}{14}$

B) $\frac{41}{14}$

C) $\frac{41}{13}$

D) $\frac{42}{11}$

E) $\frac{42}{13}$

8. I. $a \clubsuit b = (a \triangle b) \square b$

II. $a \triangle b = \frac{(a \square b)}{4}$

III. $a \square b = 2a + b$

IV. $8 \clubsuit 15 = ?$

A) 26

B) 28

C) 30

D) 32

E) 34

9. I. $a \circ b = (a \otimes b) - 1$

II. $a \otimes b = (a \div b) + 1$

III. $a \div b = (a \times b) + 1$

IV. $9 \circ 5 = ?$

A) 52

B) 53

C) 54

D) 55

E) 56

10. I. $943 \otimes = 4$

II. $889 \otimes = 5$

III. $414 \otimes = 3$

IV. $664 \otimes = ?$

A) 1

B) 2

C) 3

D) 4

E) 5

11. I. $669 \# = 27$

II. $948 \# = 28$

III. $385 \# = 19$

IV. $759 \# = ?$

A) 25

B) 26

C) 27

D) 28

E) 29

12. I. $94 \ominus 82 = 30$

II. $51 \ominus 73 = 16$

III. $72 \ominus 96 = 15$

IV. $83 \ominus 52 = ?$

A) 9

B) 12

C) 15

D) 18

E) 21

Yanıtlar / Answers

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

1. I. $28 \square = 4,64$

II. $\triangle 72 = 25$

III. $\triangle 95 = 16$

IV. $\triangle 80 \square = ?$

A) 9,16

B) 81,64

C) 36,16

D) 49,81

E) 25,49

4. I. $\star 5 = 24$

II. $\star 9 = 80$

III. $\star 18 = 9$

IV. $\star 7 \star \star = ?$

A) 4

B) 8

C) 12

D) 49

E) 54

2. I. $42 \oslash = 12$ $\oslash 22 = 10$

II. $81 \oslash = 18$ $\oslash 62 = 34$

III. $\oslash 63 \oslash = ?$

A) 18

B) 24

C) 36

D) 54

E) 64

5. I. $1 \triangle 4 = 25$

II. $2 \triangle 7 = 81$

III. $(2 \triangle 1) \triangle (2 \triangle 2) = ?$

A) 1025

B) 625

C) 360

D) 169

E) 120

3. I. $25 \square = 15$ $13 \triangle = 13$

II. $49 \square = 21$ $27 \triangle = 31$

III. $45 \triangle \square = ?$

A) 9

B) 15

C) 18

D) 27

E) 36

6. I. $15 \diamond = 36$

II. $12 \diamond = 9$

III. $14 \diamond \diamond = ?$

A) 4

B) 16

C) 49

D) 56

E) 64

7. I. $4 \star 5 = 41$
 II. $7 \star 3 = 58$
 III. $8 \star 4 = 80$
 IV. $6 \star 9 = ?$
 A) 117
 B) 104
 C) 96
 D) 84
 E) 76

8. I. $6 \square 4 \rightarrow 10,24$
 II. $5 \square 12 \rightarrow 17,60$
 III. $7 \square 8 \rightarrow ?$
 A) 56,15
 B) 28,16
 C) 15,56
 D) 42,16
 E) 16,28

9. I. $10 \diamond 6 = 4$
 II. $18 \diamond 6 = 2$
 III. $24 \diamond 12 = 3$
 IV. $9 \diamond 3 = ?$
 A) 2
 B) 3
 C) 4
 D) 5
 E) 6

10. I. $a \triangle = a + 3$
 II. $(a \triangle) \square = a$
 III. $5 \triangle + 8 \square = ?$
 A) 12
 B) 13
 C) 14
 D) 15
 E) 16

11. I. $a \spadesuit 5 = 6a^2 + 25$
 II. $2 \spadesuit 2 = 28$
 III. $4 \spadesuit 3 = ?$
 A) 105
 B) 73
 C) 70
 D) 49
 E) 33

12. I. $9 \boxtimes = 64$
 II. $\boxtimes 7 = 64$
 III. $\boxtimes 6 + 5 \boxtimes = ?$
 A) 65
 B) 71
 C) 72
 D) 84
 E) 92

Yanıtlar / Answers

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

1. I. $49 \nabla = 34$

II. $25 \nabla = 10$

III. $74 \nabla \nabla = ?$

A) 90

B) 82

C) 44

D) 33

E) 21

4. I. $18 \heartsuit 8 = 6$

II. $17 \heartsuit 11 = 7$

III. $19 \heartsuit 13 = 8$

IV. $22 \heartsuit 34 = ?$

A) 10

B) 12

C) 14

D) 16

E) 18

2. I. $4 \times 6 = 28$

II. $5 \times 10 = 25$

III. $4 \times 7 = 15$

IV. $3 \times 5 = ?$

A) 2

B) 3

C) 4

D) 5

E) 6

5. I. $14 * 5 = 27$

II. $16 * 12 = 12$

III. $21 * 16 = 15$

IV. $32 * 19 = ?$

A) 30

B) 33

C) 36

D) 39

E) 42

3. I. $23 \checkmark 26 = 7$

II. $19 \checkmark 17 = 6$

III. $46 \checkmark 35 = 3$

IV. $87 \checkmark 34 = ?$

A) 8

B) 9

C) 10

D) 11

E) 12

6. I. $4 \circ 7 = 23$

II. $5 \circ 9 = 34$

III. $3 \circ 12 = 21$

IV. $7 \circ 5 = ?$

A) 51

B) 52

C) 53

D) 54

E) 55

7. I. $415 \div 91 = 91$
 II. $415 \div 201 = 201$
 III. $(624 \div 4) \div 7 = ?$
 A) 44
 B) 45
 C) 46
 D) 47
 E) 48

8. I. $\square M = 3 \cdot M$
 II. $\triangle N = \frac{N}{2}$
 III. $\square 4 \triangle = ?$
 A) 6
 B) 12
 C) 15
 D) 16
 E) 25

9. I. $a \boxtimes b = a + 2b - 2$
 II. $a \blacktriangle b = 3a + b + 4$
 III. $a \oplus b = 2a + 3b$
 IV. $(3 \boxtimes 2) \oplus (4 \blacktriangle 3) = ?$
 A) 64
 B) 65
 C) 66
 D) 67
 E) 68

10. I. $a \oplus b = a^b$
 II. $a \boxtimes b = (b^a)^2$
 III. $a \boxplus b = (2^{a+b})$
 IV. $(2 \oplus 2) \boxtimes (1 \boxplus 2) = ?$
 A) 16
 B) 32
 C) 64
 D) 125
 E) 256

11. I. $(2, 4) \blacksquare (1, 2) = 16$
 II. $(3, 1) \blacksquare (2, 2) = 12$
 III. $(4, 2) \blacksquare (2, 4) = ?$
 A) 8
 B) 16
 C) 32
 D) 64
 E) 128

12. I. $11 \star 25 = 7$
 II. $17 \star 8 = 6$
 III. $7 \star 9 = 5$
 IV. $4 \star 3 = ?$
 A) 6
 B) 5
 C) 4
 D) 3
 E) 2

Yanıtlar / Answers

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

1. I. $12 \clubsuit 16 = 14$
II. $8 \clubsuit 22 = 15$
III. $19 \clubsuit 13 = 16$
IV. $17 \clubsuit 11 = ?$
A) 18
B) 16
C) 14
D) 12
E) 10

4. I. $x \triangle y = x \cdot y - 1$
II. $x \square y = x + y + 1$
III. $(2 \triangle 3) \square 4 = ?$
A) 10
B) 11
C) 12
D) 13
E) 14

2. I. $29 \spadesuit 26 = 27$
II. $17 \spadesuit 12 = 125$
III. $47 \spadesuit 36 = 1331$
IV. $33 \spadesuit 29 = ?$
A) 16
B) 25
C) 36
D) 49
E) 64

5. I. $425 \diamond 213 = 46$
II. $647 \diamond 423 = 192$
III. $524 \diamond 265 = 120$
IV. $693 \diamond 247 = ?$
A) 216
B) 218
C) 220
D) 222
E) 224

3. I. $(2 \star 7) = 47$
II. $(3 \star 3) = 33$
III. $(5 \star 6) = 31$
IV. $(8 \star 9) = ?$
A) 16
B) 24
C) 42
D) 60
E) 73

6. I. $6 \bowtie 8 = 49$
II. $3 \bowtie 12 = 64$
III. $5 \bowtie 7 = 36$
IV. $8 \bowtie 4 = ?$
A) 16
B) 25
C) 36
D) 49
E) 64

7. I. $72 \square 81 = 98$
 II. $35 \square 84 = 832$
 III. $98 \square 37 = 1721$
 IV. $17 \square 65 = ?$
 A) 830
 B) 11
 C) 711
 D) 831
 E) 730

8. I. $5 \blacktriangle 3 = 2$
 II. $12 \blacktriangle 15 = 3$
 III. $93 \blacktriangle 32 = 5$
 IV. $40 \blacktriangle 24 = ?$
 A) 0
 B) 1
 C) 2
 D) 3
 E) 4

9. I. $\square (XYZT) = ZTXY$
 II. $\triangle (XYZT) = XZYT$
 III. $\square (\triangle (3579)) = ?$
 A) 3759
 B) 3579
 C) 5937
 D) 5973
 E) 7953

10. I. $6 \bowtie 7 = 41$
 II. $5 \bowtie 4 = 19$
 III. $9 \bowtie 2 = 17$
 IV. $7 \bowtie 5 = ?$
 A) 26
 B) 30
 C) 32
 D) 34
 E) 44

11. I. $a \clubsuit b = a^b$
 II. $a \heartsuit b = b^a - b$
 III. $a \circ b = \frac{a^b}{b^a}$
 IV. $(2 \circ 8) \clubsuit (2 \heartsuit 2) = ?$
 A) 1
 B) 2
 C) 4
 D) 8
 E) 16

12. I. $a * b = (a \cdot b) + b$
 II. $a \bullet b = (a \cdot b) - a$
 III. $a \square b = (a + b) \cdot 2$
 IV. $(8 * 4) \square (6 \bullet 2) = ?$
 A) 84
 B) 86
 C) 88
 D) 90
 E) 92

Yanıtlar / Answers

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

1. I. $a \triangle b = \frac{a}{b} + a$

II. $a \nabla b = b - \frac{b}{a}$

III. $a \oplus b = \frac{1}{a} + \frac{1}{b}$

IV. $(32 \triangle 4) \nabla (5 \oplus 25) = ?$

A) $\frac{1}{5}$

B) $\frac{4}{15}$

C) $\frac{1}{3}$

D) $\frac{2}{5}$

E) $\frac{3}{40}$

4. I. $a \otimes b = a^2 + b^3$

II. $a \heartsuit b = a + b^2 + 1$

III. $a \div b = \frac{b-2a}{3}$

IV. $(5 \heartsuit 2) \otimes (1 \div 4) = ?$

A) 13

B) 14

C) 15

D) 16

E) 17

2. I. $a \diamond b = \frac{a-b}{3}$

II. $a \sqcup b = 2(a+b) - 1$

III. $a \otimes b = a + 2 \cdot b$

IV. $(4 \sqcup 2) \otimes (12 \diamond 3) = ?$

A) 14

B) 15

C) 16

D) 17

E) 18

5. I. $a \odot b = (a+1) \cdot b$

II. $a \otimes b = (b+3) - a$

III. $a \heartsuit b = (a \cdot b) + a + b$

IV. $(8 \heartsuit 3) \otimes (6 \odot 7) = ?$

A) 13

B) 14

C) 15

D) 16

E) 17

3. I. $a \# b = 4a + 5b$

II. $a \& b = 3b - 2a$

III. $a \$ b = \frac{a+b}{2} + 1$

IV. $(8 \# 2) \$ (12 \& 18) = ?$

A) 36

B) 37

C) 38

D) 39

E) 40

6. I. $3 \cdot a^2 \otimes 2 \cdot b^3 = a^3 + b^2$

II. $a^b \oplus b^a = a + b$

III. $\frac{a^2}{2} \otimes \frac{b^3}{3} = 6a + b$

IV. $(43 \otimes 18) - (25 \oplus 32) - (18 \otimes 9) = ?$

A) 34

B) 36

C) 38

D) 40

E) 42

7. I. $4a \times 5b = 3a - 2b$
 II. $a^2 \div 2b^2 = a^2 + 2$
 III. $\frac{5a}{2} \div 2b = (a \cdot b) - a$
 IV. $(125 \div 8) - (28 \times 15) + (10 \div 8) = ?$
 A) 20
 B) 21
 C) 22
 D) 23
 E) 24

8. I. $8a \div 9b = 3a + b^2$
 II. $a^3 \div b^2 = a^4 - b^3$
 III. $\frac{a+b}{5} \div \frac{a-b}{3} = 2b - a$
 IV. $(32 \div 45) - (7 \div 3) - (27 \div 16) = ?$
 A) 13
 B) 14
 C) 15
 D) 16
 E) 17

9. I. $\sqrt{a} \div \sqrt{b} = a - b - 4$
 II. $\sqrt[3]{a} \div \sqrt[3]{b} = b - a + 2$
 III. $(2a)^2 \div (3b)^2 = \frac{a}{b} + b$
 IV. $(3 \div 4) - (64 \div 36) - (8 \div 6) = ?$
 A) 8
 B) 9
 C) 10
 D) 11
 E) 12

10. I. $16a \div 12b = 3a + 5b$
 II. $\frac{a}{2} \div \frac{b}{3} = (a + b) \cdot 2$
 III. $(48 \div 36) - (6 \div 4) = ?$
 A) 0
 B) -12
 C) -24
 D) -48
 E) -64

11. I. $a^2 \div b = b^2 + a$
 II. $a \div 4b = a^2 - b$
 III. $(36 \div 4) \div (5 \div 20) = ?$
 A) 477
 B) 478
 C) 479
 D) 480
 E) 481

12. I. $4a \div 3b = 3a + 2b$
 II. $a^3 \div b = a^2 + b^2$
 III. $(24 \div 21) \div (27 \div 3) = ?$
 A) 32
 B) 34
 C) 36
 D) 38
 E) 40

Yanıtlar / Answers

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

1. I. $5 \cdot a \blacktriangle 6 \cdot b = 2 \cdot a + 4 \cdot b$

II. $\frac{a}{3} \blacksquare \frac{b}{4} = 2 \cdot a + 3 \cdot b$

III. $(30 \blacktriangle 24) \blacksquare (4 \blacksquare 3) = ?$

- A) 882
B) 884
C) 886
D) 888
E) 890

4. I. $a \times c = \frac{2 \cdot a}{3} \square \frac{b}{2}$

II. $a \square b = 6 \cdot a \bullet 2 \cdot b$

III. $a \bullet c = \frac{a+b}{2}$

IV. $(6 \bullet 6) \times (2 \square 4) = ?$

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

2. I. $a \oplus b = a \circ 2 \cdot b$

II. $a \circ b = 3 \cdot a \ast b$

III. $a \ast b = \frac{1}{a} + \frac{1}{b}$

IV. $\left(\frac{1}{3} \oplus \frac{1}{2}\right) \ast \left(\frac{1}{6} \circ \frac{1}{4}\right) = ?$

- A) $\frac{1}{2}$
B) $\frac{2}{3}$
C) 1
D) $\frac{3}{2}$
E) 2

5. I. $a \blacksquare b = 3 \cdot a \bullet 4 \cdot b$

II. $a \bullet b = (a - 6) \triangle (b - 5)$

III. $a \triangle b = (a \cdot b) - (a + b)$

IV. $(5 \blacksquare 2) \triangle (3 \bullet 4) = ?$

- A) 81
B) 82
C) 83
D) 84
E) 85

3. I. $a \times b = 3 \cdot a \blacktriangle 2 \cdot b$

II. $a \blacktriangle b = \frac{a}{2} \oplus \frac{b}{3}$

III. $a \oplus b = a^{-1} + b^{-1}$

IV. $(1 \blacktriangle 2) \times (2 \bullet 3) = ?$

A) $\frac{43}{22}$

B) $\frac{106}{53}$

C) $\frac{21}{11}$

D) $\frac{109}{110}$

E) $\frac{209}{105}$

6. I. $a \heartsuit b = 4 \cdot a \clubsuit b$

II. $a \clubsuit b = a \spadesuit 5 \cdot b$

III. $a \spadesuit b = \frac{a}{8} + \frac{b}{10}$

IV. $(16 \clubsuit 4) \heartsuit (20 \heartsuit 20) = ?$

- A) 6
B) 8
C) 10
D) 12
E) 14

7. I. $a \blacktriangle b = a^2 \bullet c$
 II. $a \bullet b = 3 \cdot a \oplus b^2$
 III. $a \oplus b = 2 \cdot a + b$
 IV. $(3 \blacktriangle 2) \oplus (4 \bullet 1) = ?$
 A) 133
 B) 135
 C) 137
 D) 139
 E) 141

8. I. $a \oplus b = (a \oplus 2b) + 1$
 II. $a \oplus b = (2 \cdot a \blacktriangle b) - 2$
 III. $a \blacktriangle b = 2 \cdot a + 3 \cdot b + 3$
 IV. $(4 \oplus 2) \oplus (2 \blacktriangle 4) = ?$
 A) 177
 B) 178
 C) 179
 D) 180
 E) 181

9. I. $a \bullet b = 3 \cdot a \blacktriangle 4 \cdot b$
 II. $a \blacktriangle b = (a + 8) \oplus (b - 4)$
 III. $a \oplus b = (a + b) \cdot 2$
 IV. $(3 \blacktriangle 7) \bullet (5 \bullet 2) = ?$
 A) 302
 B) 304
 C) 308
 D) 608
 E) 616

10. I. $\frac{4}{\frac{1}{(a \oplus b)}} = \frac{2}{\frac{1}{(a+b) \cdot 4}}$

II. $\frac{3}{(a \bullet b) - 1} = \frac{2}{3a - b}$

III. $\frac{(3 \oplus 1)}{(1 \bullet 1)} = ?$

- A) 1
 B) $\frac{8}{7}$
 C) $\frac{11}{5}$
 D) 2
 E) $\frac{15}{7}$

11. I. $\frac{2 + (a \oplus b)}{4 \cdot (a \blacktriangle b)} = \frac{4}{(a+b)}$

II. $2 \cdot (6 \blacktriangle 2) - (6 \oplus 2) = ?$

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

12. I. $\frac{\frac{2(a \oplus b)}{3}}{\frac{5(a \oplus b)}{4}} = \frac{a+b}{a-b}$

II. $\frac{(12 \oplus 4)}{(12 \bullet 4)} = ?$

- A) 4
 B) $\frac{15}{4}$
 C) 3
 D) $\frac{5}{2}$
 E) 2

Yanıtlar / Answers

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

1. I. $\frac{(a \Rightarrow b) + 1}{2} = \frac{a \cdot b}{a + b}$
 II. $8 \cdot (3 \times 4) - 7(3 \Rightarrow 4) = ?$
 A) 23
 B) 22
 C) 21
 D) 20
 E) 19

4. I. $a \triangle b = 2a - 3b$
 II. $a \square b = ab + b^2$
 III. $a \bigcirc b = ab$
 IV. $[(8 \triangle 5) \square 4] \bigcirc 2 = ?$
 A) 40
 B) 48
 C) 54
 D) 66
 E) 78

2. I. $a \blacktriangle b = 2 \cdot (a \bullet b)$
 II. $a \bullet b = (a \odot b) - b$
 III. $a \odot b = a + b + 2$
 IV. $(4 \blacktriangle 8) = ?$
 A) 10
 B) 12
 C) 14
 D) 16
 E) 18

5. I. $a \bullet b = 2 \cdot (a \odot b)$
 II. $a \blacktriangle b = a \bullet 2 \cdot b$
 III. $a \odot b = 2a - b$
 IV. $(4 \bullet 3) \blacktriangle 2 = ?$
 A) 28
 B) 30
 C) 32
 D) 34
 E) 36

3. I. $13x \triangle 8y = 2x - y$
 II. $16a \square 4b = 3a + 2b$
 III. $8c \bullet 6d = c^2 - 3d$
 IV. $(39 \triangle 32) + (32 \square 16) + (64 \bullet 60) = ?$
 A) 49
 B) 50
 C) 51
 D) 52
 E) 53

6. I. $5a^2 \odot 3b = 4a - b$
 II. $7a \blacksquare 8b = (a + b) \cdot 3$
 III. $(125 \odot 39) + (21 \blacksquare 24) = ?$
 A) 25
 B) 24
 C) 23
 D) 22
 E) 21

7. I. $17a \odot 3b = 5a + 2b$
 II. $7a \boxtimes 4b = 2a + b$
 III. $(85 \odot 27) - (21 \boxtimes 8) = ?$
 A) 31
 B) 32
 C) 33
 D) 34
 E) 35

8. I. $2 \cdot a \blacktriangle b = a \bullet 2 \cdot b$
 II. $a \bullet b = (a + 2) \odot (b - 4)$
 III. $a \odot 2 \cdot b = a + b$
 IV. $(8 \blacktriangle 4) + (2 \blacktriangle 4) = ?$
 A) 11
 B) 12
 C) 13
 D) 14
 E) 15

9. I. $a^3 \Rightarrow b^2 = a \cdot b$
 II. $5a \Rightarrow b^3 = a + 2b$
 III. $(343 \Rightarrow 121) - (60 \Rightarrow 27) = ?$
 A) 55
 B) 56
 C) 57
 D) 58
 E) 59

10. I. $8753 \Rightarrow 5641 = 3112$
 II. $9276 \Rightarrow 8154 = 1122$
 III. $2846 \Rightarrow 1431 = 1415$
 IV. $4379 \Rightarrow 3066 = ?$
 A) 1313
 B) 7396
 C) 7286
 D) 1318
 E) 4614

11. I. $873 \oslash = 9$
 II. $427 \oslash = 4$
 III. $915 \oslash = 6$
 IV. $817 \oslash = ?$
 A) 5
 B) 6
 C) 7
 D) 8
 E) 9

12. I. $3217 \times = 42$
 II. $4865 \times = 90$
 III. $2478 \times = 104$
 IV. $1340 \times = ?$
 A) 0
 B) 1
 C) 2
 D) 3
 E) 4

Yanıtlar / Answers

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

1. (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
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

2. (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

3. (I) 2, 4, 6, 12, 14
(II) 100, 50, 48, 24, 22
(III) 27, 9, 3, 2, -1
(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, 72, 69

4. (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
B) 60, 59, 58, 57, 56, 55, 54
C) 60, 58, 54, 48, 40, 30, 18
D) 60, 59, 57, 54, 50, 45, 39
E) 60, 57, 51, 42, 30, 16, 0

5. (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, 17, 19, 38, 43
C) 2, 4, 6, 30, 150, 152
D) 2, 10, 50, 52, 54, 270
E) 2, 7, 12, 24, 48, 96

6. (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

7. (I) 16, 32, 8, 16, 4, 8, 2
 (II) 8, 6, 10, 8, 12, 10, 14
 (III) 10, 40, 20, 80, 40, 160, 80
 (IV) ?
 A) 20, 80, 40, 160, 80, 320, 160
 B) 20, 18, 22, 20, 24, 22, 26
 C) 20, 16, 18, 14, 16, 12, 14
 D) 20, 16, 32, 28, 56, 52, 104
 E) 20, 24, 12, 16, 8, 12, 6

8. (I) 3, 12, 10, 40, 38, 152
 (II) 4, 12, 9, 27, 24, 72
 (III) 144, 48, 54, 18, 24, 8
 (IV) ?
 A) 6, 3, 10, 5, 12, 6
 B) 72, 18, 24, 6, 12, 3
 C) 6, 13, 20, 10, 5, 12, 19
 D) 129, 43, 48, 16, 21, 7
 E) 15, 22, 11, 18, 9, 16

9. (I) 3, 1, 4, 2, 5, 3, 6
 (II) 4, 1, 5, 2, 6, 3, 7
 (III) 2, 4, 8, 16, 20, 40, 44
 (IV) ?
 A) 3, 12, 14, 56, 58, 232, 234
 B) 3, 6, 10, 20, 24, 48, 52
 C) 3, 0, 4, 1, 5, 2, 6
 D) 3, 9, 14, 42, 47, 141, 146
 E) 3, 8, 24, 29, 87, 92, 276

10. (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) 14, 20, 19, 24, 22, 26, 23
 D) 14, 12, 20, 16, 22, 16, 20
 E) 14, 15, 9, 11, 6, 9, 5

11. (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, 56
 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

12. (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

Yanıtlar / Answers

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

1. (I) 4, 10, 22, 46, 94, 190
(II) 3, 4, 6, 10, 18, 34
(III) 2, 9, 30, 93, 282, 849
(IV) ?
A) 1, 2, 6, 24, 120, 720
B) 5, 8, 14, 26, 50, 98
C) 4, 9, 24, 69, 204, 609
D) 18, 21, 27, 36, 48, 63
E) 8, 10, 14, 20, 28, 38

2. (I) 3, 12, 6, 24, 12, 48
(II) 6, 10, 8, 12, 10, 14
(III) 128, 256, 64, 128, 32
(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

3. (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, 24

4. (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

5. (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

6. (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, 14, 42, 44, 162

7. (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, 2170
B) 6, 12, 24, 31, 62, 124
C) 6, 13, 26, 33, 66, 73
D) 6, 8, 56, 58, 406, 408
E) 6, 8, 10, 70, 72, 74

8. (I) 82, 77, 67, 52, 32, 7
(II) 22, 27, 37, 52, 72, 97
(III) 48, 46, 42, 36, 28, 18
(IV) ?
A) 52, 49, 43, 34, 22, 7
B) 15, 18, 24, 33, 45, 60
C) 56, 54, 50, 44, 36, 26
D) 4, 6, 10, 16, 24, 34
E) 12, 16, 20, 24, 28, 32

9. (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

10. (I) 35, 32, 29, 26, 23, 20
(II) 13, 16, 19, 22, 25, 28
(III) 88, 61, 54, 47, 40, 33
(IV) ?
A) 68, 65, 62, 59, 56, 53
B) 72, 65, 58, 51, 44, 47
C) 18, 21, 24, 27, 30, 33
D) 18, 25, 32, 39, 46, 53
E) 26, 19, 22, 15, 18, 11

11. (I) 3, 9, 10, 30, 31, 93
(II) 3, 9, 8, 24, 23, 69
(III) 3, 9, 12, 36, 39, 117
(IV) ?
A) 3, 9, 27, 24, 21, 63
B) 3, 6, 9, 12, 15, 18
C) 3, 9, 6, 18, 15, 45
D) 3, 6, 18, 21, 63, 66
E) 3, 6, 9, 27, 81, 84

12. (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

Yanitlar / Answers

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

1. 6 12 17 ? 24 26

- A) 20
B) 22
C) 21
D) 23
E) 19

4. 21 42 43 86 ? 174

- A) 87
B) 90
C) 88
D) 91
E) 92

2. 7 17 26 ? 41 47 52

- A) 34
B) 29
C) 30
D) 35
E) 36

5. 4 12 15 5 ? 18 6

- A) 12
B) 20
C) 16
D) 14
E) 15

3. 7 14 16 ? 34 68

- A) 30
B) 52
C) 36
D) 38
E) 28

6. I. 2 4 8 16 ?

II. 3 7 13 27 ?

- A) 32,32
B) 46,46
C) 48,26
D) 32,53
E) 62,54

7. (I) 13 27 25 51 ? 99
 (II) 7 14 13 26 25 ?
 A) 48,51
 B) 51,50
 C) 49,50
 D) 30,48
 E) 62,7

8. I II III IV V
 2 6 9 13 17
 3 11 17 25 ?
 A) 26
 B) 29
 C) 33
 D) 35
 E) 38

9. I II III IV V
 286 214 308 426 518
 143 107 154 213 ?
 53 17 64 33 ?
 A) 259-79
 B) 209-99
 C) 238-58
 D) 189-99
 E) 259-89

10. (I) 7 20 59 176 ?
 (II) 3 15 53 169 ?
 A) 527,519
 B) 316,305
 C) 540,280
 D) 516,504
 E) 428,314

11. (I) 6 3 7 4 8 5 9
 (II) 10 13 9 12 8 11 7
 (III) 7 6 8 7 9 8 10
 (IV) ?
 A) 11 10 12 11 13 12 14
 B) 13 14 12 13 11 12 10
 C) 12 10 13 11 14 12 15
 D) 15 13 14 12 13 11 12
 E) 7 10 6 9 5 8 4

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

Yanıtlar / Answers

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

1. ? 1 2 1 3 1 4 1

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

4. 1 2 5 ? 677

- A) 11
B) 16
C) 19
D) 21
E) 26

2. ? 25 2 16 3 9 4 4 5 1

- A) 36
B) 29
C) 5
D) 6
E) 1

5. 2 $\frac{4}{3}$ $\frac{2}{3}$? $-\frac{2}{3}$

- A) 0
B) $\frac{1}{3}$
C) $\frac{1}{6}$
D) $\frac{3}{5}$
E) $\frac{4}{3}$

3. ? -45 -42 -21 -18 -9 -6 -3

- A) -50
B) -60
C) -72
D) -90
E) -105

6. 3 7 15 31 ? 127 255

- A) 42
B) 63
C) 84
D) 98
E) 107

7. 3 6 ? 18 21 42 45 90

- A) 4
- B) 5
- C) 7
- D) 8
- E) 9

10. 1440 240 48 12 ? 2 2

- A) 10
- B) 9
- C) 8
- D) 4
- E) 3

8. $\frac{1}{2}$ 1 $\frac{1}{4}$ $\frac{1}{2}$? $\frac{1}{4}$ $\frac{1}{16}$

- A) $\frac{1}{8}$
- B) $\frac{1}{4}$
- C) $\frac{1}{2}$
- D) 1
- E) 2

11. 4 9 17 35 69 ? 277

- A) 102
- B) 139
- C) 143
- D) 168
- E) 173

9. 3 80 18 40 9 20 54 10 27 5 ? ?

- A) 142,3
- B) 118,29
- C) $162, 2\frac{1}{2}$
- D) 72,33
- E) 24,9

12. 8 12 10 16 14 ? 20

- A) 19
- B) 22
- C) 12
- D) 21
- E) 26

Yanıtlar / Answers

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

1. 3, 7, 10, 20, 24, 27, 54, ?

- A) 51
B) 52
C) 53
D) 54
E) 58

4. 1, 9, $\sqrt{5}$, 49, 3, 121, ?

- A) 144
B) $\sqrt{12}$
D) $\sqrt{11}$
D) $\sqrt{13}$
E) $\sqrt{15}$

2. 2, 4, 7, 12, 14, 17, 22, ?

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

5. 6, 6, 7, 7, 10, 9, 15, 12, 22, 16, ?, ?

- A) 32,22
B) 29,21
C) 30,31
D) 21,31
E) 31,21

3. 3 7 16 35 ?

7 15 32 67 ?

- A) 72 132 B) 62 136 C) 64 130
D) 72 134 E) 74 138

6. 1 2 2 4 8 32 ?

- A) 48
B) 64
C) 96
D) 128
E) 256

7. 12, 22, 23, 33, 34, 44, ?

- A) 55
- B) 43
- C) 88
- D) 45
- E) 35

10. 3 6 7 ? 15 30

- A) 12
- B) 13
- C) 10
- D) 14
- E) 11

8. 16, 62, 27, 73, 38, ?

- A) 83
- B) 84
- C) 88
- D) 81
- E) 79

11. 54 45 36 ? 18 9

- A) 30
- B) 35
- C) 27
- D) 25
- E) 28

9. 15, 53, 37, 75, 59, ?

- A) 87
- B) 95
- C) 98
- D) 94
- E) 97

12. 2 5 9 ? 20 27 35

- A) 14
- B) 11
- C) 12
- D) 16
- E) 15

Yanıtlar / Answers

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

1. 3 6 15 45
5 10 27 81
4 8 21 63
6 12 ? 99
A) 33
B) 22
C) 11
D) 9
E) 4

4. 5 3 9 7 ? 11
A) 13
B) 15
C) 21
D) 20
E) 25

2. 1 1 2 3 5 ? 13
A) 7
B) 8
C) 9
D) 10
E) 11

5. 1 2 6 24 120 ?
A) 180
B) 720
C) 1010
D) 940
E) 1240

3. 2 3 8 31 ? 923
A) 150
B) 152
C) 154
D) 156
E) 158

6. 3 7 12 18 25 ?
A) 28
B) 31
C) 33
D) 35
E) 39

7. 4 5 7 10 14 19 ?
A) 25
B) 24
C) 23
D) 22
E) 21

8. 2 3 6 7 14 ? ?
A) 20 - 21
B) 16 - 18
C) 15 - 16
D) 21 - 30
E) 15 - 30

9. I. 3 6 8 16 18
II. 1 3 6 8 16
III. 4 12 12 42 44
IV. ?
A) 3 9 12 36 39
B) 1 4 8 32 36
C) 2 10 15 75 80
D) 4 20 15 75 70
E) 6 2 8 4 16

10. 7 5 12 18
17 15 32 48
14 12 26 39
4 6 10 ?
A) 14
B) 15
C) 16
D) 17
E) 18

11. 3 6 15 42
5 12 33 96
2 3 6 15
6 15 42 ?
A) 72
B) 96
C) 106
D) 123
E) 142

12. 3 - 9 - 8 - 24 - 23 - ?
A) 32
B) 45
C) 51
D) 59
E) 69

Yanıtlar / Answers

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

1. I. 5, 10, 20, 40
II. 17, 13, 9, 5
III. 7, 21, 63, 189
IV. 40, 36, 32, 28
V. 28, 21, 14, 7

Yukarıda verilen sayı sistemleri arasında birbirini takip eden bir sıralama vardır. Bu sıralama aşağıdakilerden hangisinde doğru olarak verilmiştir?

There is a number system between the number series above. Which of the following is the system shown correctly?

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

2. I. 19, 17, 15
II. 25, 30, 35
III. 10, 20, 40
IV. 64, 16, 4
V. 18, 20, 22

Yukarıda verilen sayı sistemlerinden hangi üç tanesinde aynı sayıyla farklı işlemler yapılmıştır?

Between the number systems above, in three number system the same number but different operations are using. Which are these number series?

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

3. I. 7, 12, 8, 24, 12
II. 8, 13, 9, 18, 6
III. 3, 8, 4, 12, 6
IV. 6, 11, 6, 12, 4
V. 19, 24, 20, 60, 30

Yukarıda verilen sayı sistemlerinden hangi üç tanesi aynı kurala göre dizilmiştir?

Between the number systems above, which series are sharing the same rule?

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

4. I. 6, 9, 12, 6, 3
II. 12, 16, 20, 10, 5
III. 38, 43, 48, 12, 3
IV. 4, 11, 18, 6, 2
V. 22, 29, 36, 6, 1

Yukarıda verilen sayı sistemlerinden hangi üç tanesi benzer kurala göre dizilmiştir?

Between the number systems above, which series are sharing the similar rule?

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

Aşağıdaki sayı sistemlerinden hangisi diğerlerinden farklı bir özellik taşır? (14. soruya kadar olan soruları bu soruya göre cevaplayınız)

Which of the following number systems are different from the others in one way? (Do the questions 5. to 14. in this explanation)

5. A) 14, 16, 18, 20
B) 18, 20, 22, 24
C) 10, 12, 17, 19
D) 20, 22, 24, 26
E) 30, 32, 34, 36

6. A) 2, 5, 7, 10
B) 10, 13, 15, 18
C) 20, 23, 25, 28
D) 17, 19, 22, 24
E) 50, 53, 55, 58

7. A) 2, 7, 21, 20
 B) 7, 12, 36, 35
 C) 20, 25, 75, 74
 D) 90, 95, 285, 284
 E) 1, 6, 18, 19

8. A) 7, 10, 15, 22, 29,
 B) 7, 16, 5, 18, 3,
 C) 7, 12, 5, 14, 3,
 D) 7, 14, 5, 16, 3,
 E) 7, 8, 5, 10, 3,

9. A) 10, 13, 18, 25, 34
 B) 10, 11, 14, 19, 26
 C) 20, 25, 32, 41, 52
 D) 30, 37, 46, 57, 70
 E) 12, 9, 12, 4, 12

10. A) 20, 10, 8, 10, 20
 B) 7, 10, 30, 27, 9
 C) 6, 10, 40, 36, 9
 D) 30, 25, 125, 120, 600
 E) 12, 9, 12, 4, 12

11. A) 8, 16, 24, 32, 40
 B) 126, 132, 138, 144, 150
 C) 901, 909, 917, 925, 933
 D) 2, 10, 18, 26, 34
 E) 134, 142, 150, 158, 166

12. A) 2, 5, 10, 17, 26
 B) 2, 3, 6, 11, 18
 C) 2, 10, 20, 32, 46
 D) 2, 23, 46, 71, 98
 E) 2, 17, 34, 53, 74

13. A) 1, 8, 25, 52, 89
 B) 1, 4, 17, 40, 73
 C) 1, 6, 21, 46, 81
 D) 1, 3, 25, 67, 129
 E) 1, 2, 13, 34, 65

14. A) 119, 110, 102, 95, 86, 78
 B) 2, 2, 4, 12, 12, 24
 C) 1, 2, 6, 24, 48, 144
 D) 10, 18, 27, 37, 45, 53
 E) 120, 115, 109, 102, 97, 91

Yanıtlar / Answers

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

1. (I) 3, 5, 9, 15, 23, 33
 (II) 42, 40, 36, 30, 22, 12
 (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

2. (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, 20
 E) 3, 12, 16, 64, 68, 272

3. (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

4. (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

5. (I) 110 114 118 110 102
 (II) 12 36 108 18 3
 (III) 8 6 4 8 12
 (IV) ?
 A) 16 8 4 24 144
 B) 4 4 4 2 1
 C) 8 8 8 16 32
 D) 64 16 4 32 256
 E) 4 8 16 8 4

6. (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 18 5
 B) 12 14 11 13 7 12 8
 C) 28 16 18 14 16 12 14
 D) 35 12 13 24 11 12 16
 E) 10 14 12 16 14 18 16

7. I II III IV
37 51 62 44
68 102 123 ?
A) 85
B) 86
C) 87
D) 88
E) 89

8. I II III IV
31 42 67 88
5 7 14 ?
A) 16
B) 21
C) 15
D) 14
E) 17

9. I II III IV
12 32 26 14
37 97 79 ?
A) 40
B) 41
C) 42
D) 43
E) 44

10. 25 25 22 23 19 21 ?
A) 16
B) 17
C) 21
D) 22
E) 24

11. $\frac{1}{2}$ $\frac{3}{2}$ $\frac{3}{4}$ $\frac{7}{4}$ 1 2 ?
A) $\frac{5}{4}$
B) $\frac{7}{2}$
C) $\frac{15}{4}$
D) $\frac{11}{8}$
E) 1

12. 0 2 8 18 ? 50 72
A) 22
B) 28
C) 32
D) 36
E) 48

Yanıtlar / Answers

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

1. $-6 \quad 2 \quad -\frac{2}{3} \quad \frac{2}{9} \quad ? \quad \frac{2}{81}$

A) $-\frac{2}{27}$

B) $-\frac{4}{9}$

C) $-\frac{2}{9}$

D) $-\frac{4}{27}$

E) $\frac{3}{13}$

2. $6 \quad 9 \quad 18 \quad 16 \quad 19 \quad 38 \quad 36 \quad ?$

A) 36

B) 38

C) 39

D) 48

E) 61

3. $7 \quad 14 \quad 11 \quad 16 \quad 15 \quad ?$

A) 14

B) 17

C) 10

D) 23

E) 18

4. $5 \quad ? \quad 7 \quad 7 \quad 14 \quad 11 \quad 16 \quad 15 \quad ?$

A) 32,4

B) 3,32

C) 13,5

D) 32,7

E) 3,8

5. $4 \quad 9 \quad 9 \quad 6 \quad ? \quad 3 \quad 16 \quad 0 \quad 18 \quad ? \quad 19$

A) 4,5

B) 12,5

C) 13,-3

D) 14,2

E) 15,-2

6. $1 \quad 2 \quad 3 \quad 5 \quad 5 \quad 14 \quad 7 \quad 41 \quad 9 \quad 122 \quad 11 \quad ? \quad ?$

A) 184,12

B) 249, 13

C) 365,13

D) 364,13

E) 247, 10

7. 1 2 3 5 8 13 ?

- A) 33
- B) 22
- C) 21
- D) 18
- E) 16

10. 8 12 18 27 ?

- A) 48,5
- B) 46
- C) 44,5
- D) 42
- E) 40,5

8. 5 10 6 12 9 18 16 32 ?

- A) 20
- B) 26
- C) 31
- D) 64
- E) 68

11. $\left(\frac{1}{2}-1\right)\left(\frac{1}{3}-1\right)\left(\frac{1}{4}-1\right)\dots\left(\frac{1}{10}-1\right) = ?$

- A) $\frac{1}{10}$
- B) $-\frac{1}{10}$
- C) $\frac{9}{2}$
- D) $-\frac{9}{2}$
- E) $\frac{9}{40}$

9. 720 120 24 ? 2 1

- A) 4
- B) 5
- C) 6
- D) 8
- E) 12

12. 50 51 49 53 47 56 44 60 40 ? ?

- A) 60, 40
- B) 35, 60
- C) 60, 35
- D) 65, 35
- E) 65, 42

Yanıtlar / Answers

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

1. 50 2 48 4 46 6 44 ? ?

- A) 8, 46
 B) 8, 42
 C) 42, 10
 D) 44, 12
 E) 46, 8

A	B	C	D
3	7	8	5
5	3	7	8
8	5	3	7
7	?	?	?

A) 9,6,4

B) 7,5,6

C) 8,6,3

D) 8,5,3

E) 3,5,8

2. 2 8 3 7 5 6 8 5 ? ?

- A) 10,6
 B) 11,3
 C) 11,4
 D) 12,4
 E) 12,6

	A	B
(I)	72	41
(II)	54	31
(III)	18	12
(IV)	24	?

A) 14

B) 16

C) 18

D) 20

E) 22

x	y	z
100	74	89
20	65	79
60	56	70
12	47	62
?	?	?

A) 48-38-58

B) 26-38-55

C) 24-38-55

D) 36-39-45

E) 36-38-55

I	II	III	IV
121	64	810	312
8	20	18	?

A) 10

B) 12

C) 14

D) 16

E) 18

7. 1 10 3 12 8 15 10 19 15 24 (?) (?)

- A) 28 ve(and) 25
- B) 15 ve(and) 29
- C) 15 ve(and) 28
- D) 21 ve(and) 30
- E) 21 ve(and) 36

10. 2 4 10 28 82 ?

- A) 244
- B) 240
- C) 248
- D) 250
- E) 242

8. $\frac{2}{5}$ $\frac{6}{5}$ $4\frac{1}{5}$ $16\frac{4}{5}$ $20\frac{4}{5}$ 104 ?

- A) 100
- B) 109
- C) 102
- D) 110
- E) 108

11. $\frac{3}{5}$ $2\frac{2}{5}$ $3\frac{2}{5}$ $13\frac{3}{5}$ $14\frac{3}{5}$?

- A) $24\frac{4}{5}$
- B) $36\frac{2}{5}$
- C) $56\frac{3}{5}$
- D) $58\frac{2}{5}$
- E) 70

9. 21 30 41 54 69 ?

- A) 82
- B) 85
- C) 86
- D) 87
- E) 88

12. $\frac{3}{4}$ $1\frac{1}{2}$ $3\frac{1}{2}$ $10\frac{1}{2}$ $13\frac{1}{2}$?

- A) 26
- B) $26\frac{1}{4}$
- C) 54
- D) $56\frac{1}{2}$
- E) 70

Yanıtlar / Answers

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

1. 10 - 3 - 14 - 7 - ? - 11 - 22

- A) 18
B) 15
C) 13
D) 10
E) 7

4. 1 - 4 - 9 - 16 - 25 - ?

- A) 28
B) 36
C) 49
D) 56
E) 64

2. Aşağıdaki ikililerden hangisi diğerlerinden farklı bir özellik taşır?

Which number system below is different from the others?

- A) 81 - 9
B) 100 - 10
C) 9 - 3
D) 30 - 10
E) 25 - 5

5. I. 2 3 5 8 12

II. 21 20 18 15 11

III. 3 5 9 15 23

IV. ?

A) 41 38 35 29 26

B) 8 11 15 20 26

C) 30 28 24 18 10

D) 2 7 13 20 28

E) 24 23 22 19 15

3. I. 2 - 4 - 6 - 12 - 14

II. 3 - 9 - 12 - 36 - 39

III. 4 - 16 - 20 - 80 - 84

IV. ?

A) 2 - 12 - 18 - 108 - 114

B) 3 - 12 - 16 - 64 - 68

C) 1 - 6 - 5 - 30 - 29

D) 4 - 8 - 16 - 32 - 69

E) 1 - 5 - 10 - 50 - 55

6. I. 2 3 5 8 12

II. 21 20 18 15 11

III. 13 15 18 22 27

IV. ?

A) 1 4 2 8 6

B) 3 12 16 64 68

C) 1 6 5 30 29

D) 4 8 16 32 64

E) 40 38 35 31 26

7. I. 2 6 4 12 10
 II. 1 5 2 10 7
 III. 3 6 5 10 9
 IV. ?
 A) 5 13 12 20 19
 B) 3 10 7 14 11
 C) 4 16 14 56 54
 D) 6 5 20 19 76
 E) 7 11 17 25 35

10. 2 - 3 - 6 - 7 - 10 - ? - ? - ?
 A) 11 - 14 - 17
 B) 11 - 14 - 15
 C) 9 - 8 - 7
 D) 12 - 15 - 19
 E) 13 - 14 - 17

8. I. 2 4 6 8 10
 II. 7 11 15 19 23
 III. 20 18 16 14 12
 IV. ?
 A) 15 13 11 9 7
 B) 8 11 14 17 20
 C) 4 6 8 10 12
 D) 7 10 14 19 25
 E) 18 14 10 6 2

11. 8 - 21 - 16 - 12
 10 - 27 - 22 - 18
 ? - 30 - 25 - 21
 13 - 36 - 31 - 27
 A) 15
 B) 13
 C) 11
 D) 9
 E) 7

9. 12 - 7 - 16 - 11 - 20 - 15 - ?
 A) 24
 B) 23
 C) 22
 D) 21
 E) 20

12. 1 - 5 - 2 - 6
 3 - 15 - 12 - 36
 4 - 20 - 17 - 51
 6 - ? - 27 - ?
 A) 24 - 72
 B) 12 - 64
 C) 49 - 81
 D) 16 - 72
 E) 30 - 81

Yanıtlar / Answers

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

1. 2 5 13 36
3 8 ? 63
1 2 4 9
4 11 31 90
A) 32
B) 29
C) 20
D) 22
E) 18

4. 12, 16, 30, 54, 102, ?
A) 190
B) 192
C) 194
D) 196
E) 198

2. 27 11 30 20
30 12 33 23
? 16 45 35
9 5 12 2
A) 56
B) 48
C) 42
D) 28
E) 22

5. 9, 18, ?, 12, 24, 30, 15
A) 20
B) 21
C) 22
D) 23
E) 24

3. 25 5 8 12
30 6 9 13
45 ? ? 16
35 7 10 14
A) 7 - 5
B) 9 - 12
C) 15 - 18
D) 5 - 8
E) 10 - 12

6. ?, 50, 42, 23, 40, 32, 13, 30, 22, 3
A) 33
B) 34
C) 35
D) 36
E) 37

7. 2, 4, 11, 3, 9, 16, 8, ?, 71, 63

- A) 63
- B) 64
- C) 65
- D) 66
- E) 67

8. 11, 22, 35, ?, 67, 86, 107

- A) 48
- B) 50
- C) 51
- D) 52
- E) 53

9. 523, 651, 329, ?

- A) 215
- B) 321
- C) 456
- D) 591
- E) 655

10. 15, 29, 57, 113, ?

- A) 221
- B) 222
- C) 223
- D) 224
- E) 225

11. 5, 3, 8, 16, 32, ?

- A) 32
- B) 48
- C) 56
- D) 64
- E) 72

12. 2, 3, 6, ?, 108, 1994

- A) 14
- B) 16
- C) 18
- D) 20
- E) 22

Yanıtlar / Answers

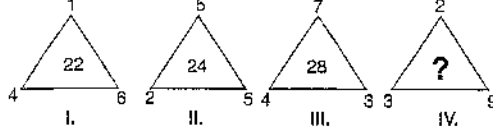
1. D	2. C	3. B	4. E	5. E	6. A
7. B	8. B	9. E	10. E	11. D	12. C

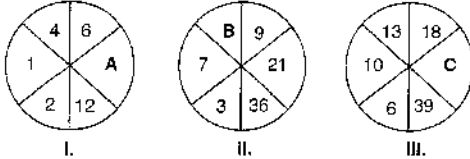
SAYI ŞEKİL İLİŞKİLERİ NUMBER FIGURE RELATIONS

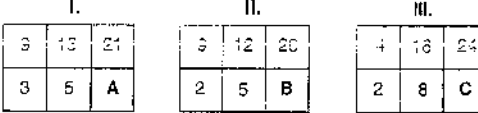
BÖLÜM 5 CHAPTER 5

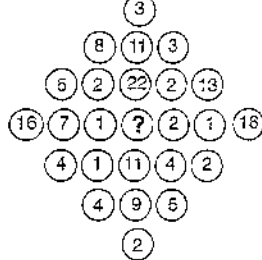
Sayı Şekil İlişkileri / Number Figure Relations

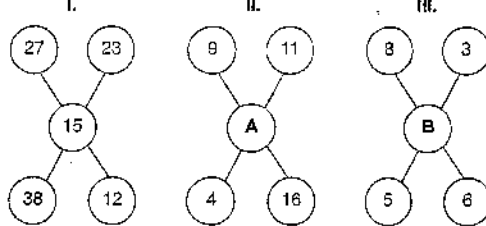
Test 1

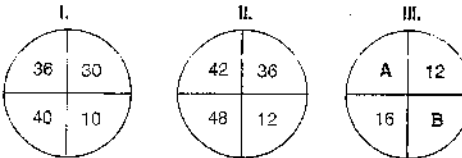
1. 
I. II. III. IV.
A) 18 B) 22 C) 24 D) 28 E) 32

2. 
I. II. III.
 $\Rightarrow A + B + C = ?$
A) 39 B) 42 C) 45 D) 54 E) 66

3. 
I. II. III.
 $\Rightarrow A + B + C = ?$
A) 27 B) 30 C) 32 D) 34 E) 36

4. 
A) 41 B) 43 C) 45 D) 47 E) 49

5. 
I. II. III.
 $\Rightarrow A + B = ?$
A) 3 B) 7 C) 9 D) 11 E) 12

6. 
I. II. III.
 $\Rightarrow A + B = ?$
A) 16 B) 22 C) 26 D) 28 E) 30

7.

I.	II.	III.
9 25	8 19	9 18
6 29	7 37	5 ?

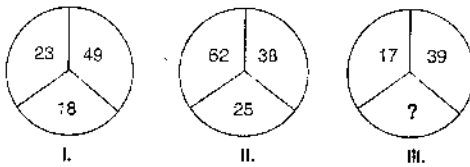
- A) 25 B) 26 C) 27 D) 28 E) 29

8.

I.	89	17 72
II.	69	15 54
III.	?	12 35

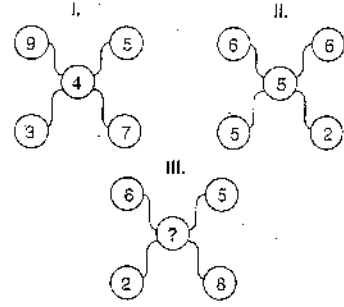
- A) 38 B) 39 C) 40 D) 41 E) 42

9.



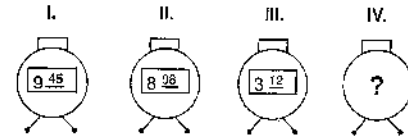
- A) 9 B) 12 C) 14 D) 16 E) 18

10.



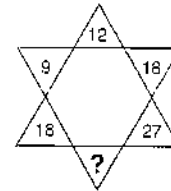
- A) 0 B) 1 C) 4 D) 6 E) 7

11.



- A) 1:09 B) 5:17 C) 8:53
D) 6:59 E) 4:51

12.

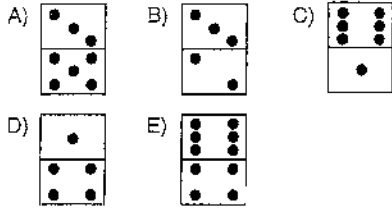
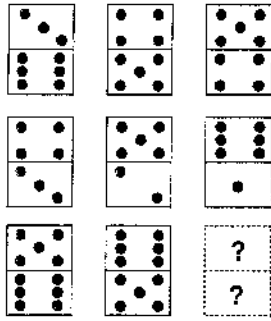


- A) 9 B) 15 C) 18 D) 24 E) 27

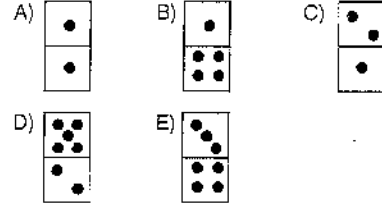
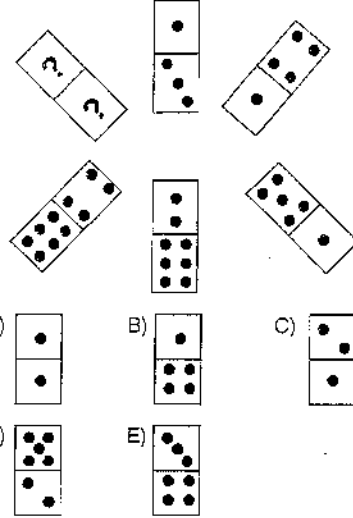
Yanıtlar / Answers

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

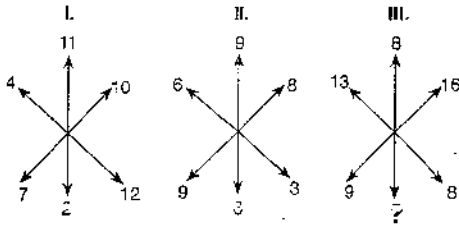
1.



4.

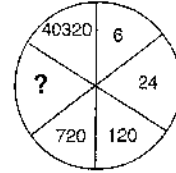


2.



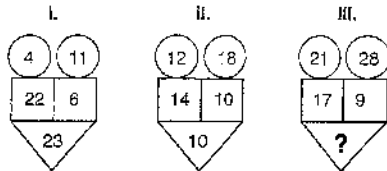
A) 5 B) 9 C) 10 D) 11 E) 13

5.



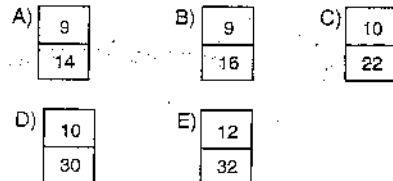
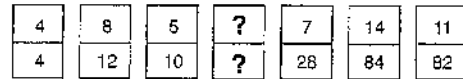
A) 1881 B) 2840 C) 3620 D) 4840 E) 5040

3.

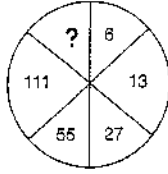


A) 11 B) 12 C) 13 D) 14 E) 15

6.

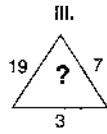
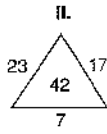
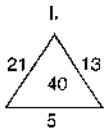


7.



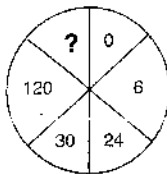
- A) 196 B) 208 C) 223 D) 228 E) 248

8.



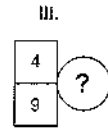
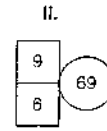
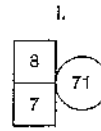
- A) 52 B) 48 C) 42 D) 33 E) 36

9.



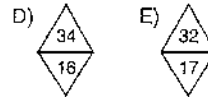
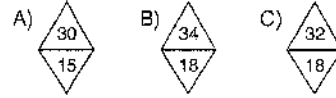
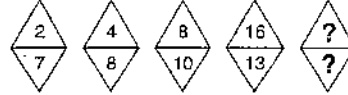
- A) 126 B) 172 C) 189 D) 210 E) 225

10.

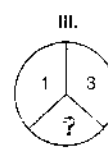
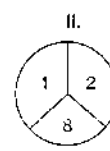


- A) 47 B) 48 C) 49 D) 50 E) 51

11.



12.

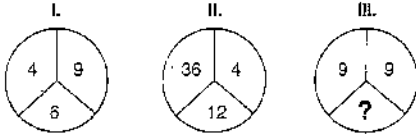


- A) 9 B) 12 C) 18 D) 27 E) 36

Yanıtlar / Answers

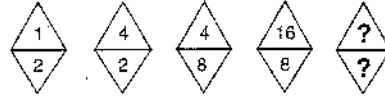
1. D	2. A	3. E	4. C	5. E	6. D
7. C	8. E	9. A	10. C	11. E	12. D

1.



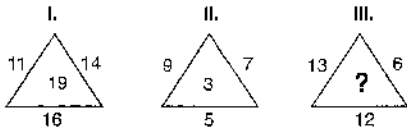
- A) 9 B) 16 C) 18 D) 24 E) 27

4.



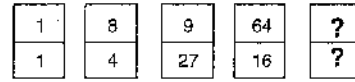
- A) 5
16 B) 8
32 C) 10
64 D) 16
16 E) 16
32

2.



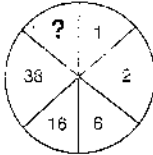
- A) 3 B) 5 C) 7 D) 9 E) 11

5.



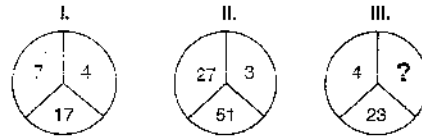
- A) 21
50 B) 25
100 C) 21
125 D) 25
125 E) 25
225

3.



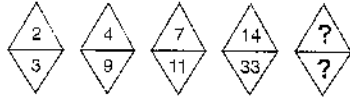
- A) 24 B) 48 C) 64 D) 72 E) 84

6.



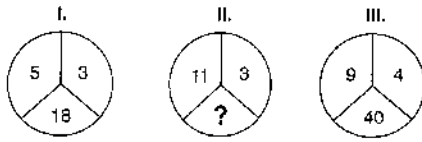
- A) 9 B) 23 C) 35 D) 70 E) 105

7.



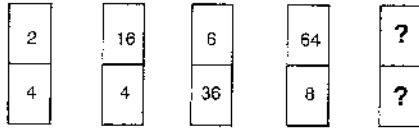
- A) 17 34 B) 16 38 C) 17 35 D) 19 34 E) 20 37

8.



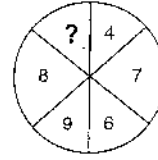
- A) 6 B) 8 C) 14 D) 27 E) 36

9.



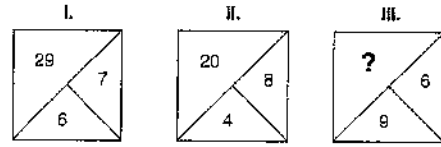
- A) 5 25 B) 81 9 C) 9 81 D) 11 121 E) 10 100

10.



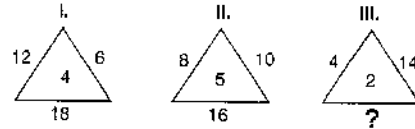
- A) 5 B) 6 C) 10 D) 11 E) 12

11.



- A) 37 B) 38 C) 39 D) 40 E) 41

12.

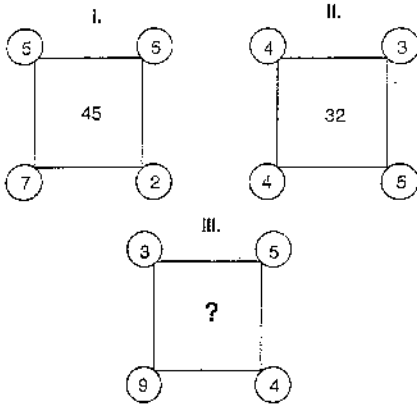


- A) 16 B) 18 C) 24 D) 28 E) 32

Yanıtlar / Answers

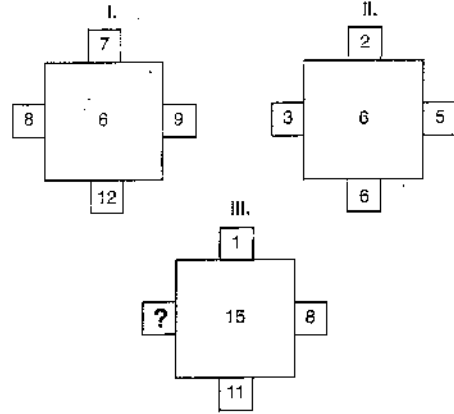
1. A	2. B	3. E	4. E	5. D	6. A
7. C	8. E	9. E	10. D	11. C	12. D

1.



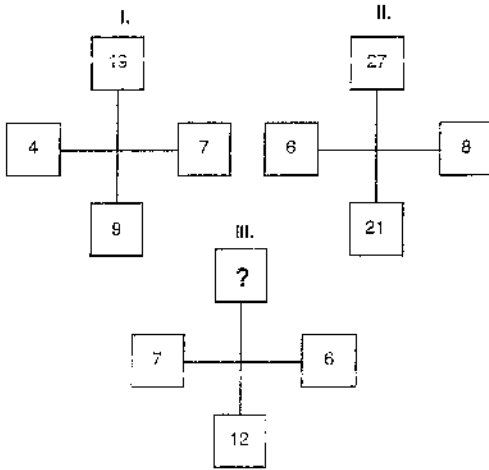
- A) 57 B) 64 C) 72 D) 86 E) 98

3.



- A) 3 B) 5 C) 9 D) 12 E) 14

2.



- A) 24 B) 30 C) 34 D) 44 E) 49

4.

I.  +  +  = 42

II.  -  +  = 23

III.  +  -  = ?

- A) 4 B) 8 C) 13 D) 19 E) 21

5.

I. $\square^a + \triangle^b + \text{pentagon}^c = (a+4) + (b-3) + (c \cdot 5)$

II. $\text{pentagon}^2 + \triangle^7 - \square^3 = 7$

III. $\triangle^5 + \text{pentagon}^3 - \square^4 = ?$

- A) 3 B) 7 C) 9 D) 12 E) 14

6.

I. $\triangle^a = a^3 + b^2$

II. $\triangle^2 = 17$

III. $\triangle^? = ?$

- A) 9 B) 14 C) 17 D) 26 E) 34

7.

I. $\frac{3+7+4+9}{23}$

II. $\frac{4+7+6+8}{28}$

III. $\frac{3+2+6+12}{34}$

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

8.

I. $\triangle^{12, 24, 4, 9}$

II. $\triangle^{14, 18, 8, 4}$

III. $\triangle^{16, 24, 10, ?}$

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

9.

I. $\triangle^{2, 1, 4, 6, 8, 54}$

II. $\triangle^{3, 2, 3, 6, 3, 60}$

III. $\triangle^{4, 1, 7, 3, 5, ?}$

- A) 24 B) 42 C) 75 D) 84 E) 96

10.

I. $\triangle^2 \rightarrow 24$

II. $\square^3 \rightarrow 48$

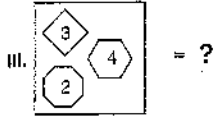
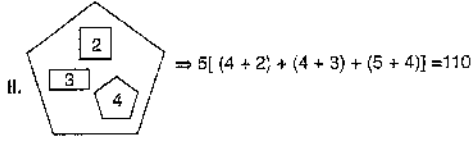
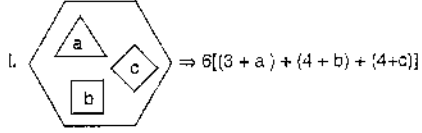
III. $\text{hexagon}^2 \rightarrow ?$

- A) 12 B) 24 C) 36 D) 48 E) 54

Yanıtlar / Answers

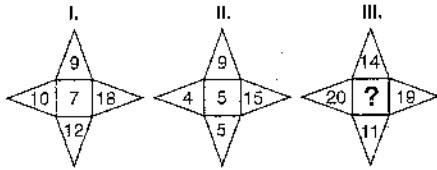
1. A	2. B	3. A	4. C	5. C	6. E
7. A	8. B	9. C	10. C		

1.



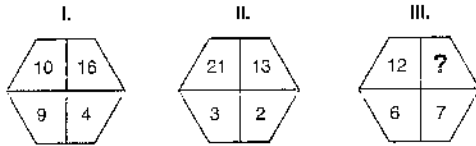
- A) 24 B) 48 C) 72 D) 98 E) 108

2.



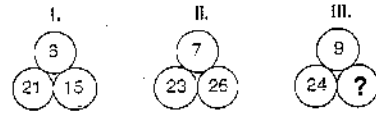
- A) 6 B) 8 C) 11 D) 12 E) 14

3.



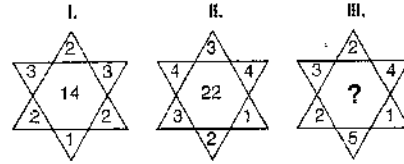
- A) 13 B) 14 C) 15 D) 16 E) 17

4.



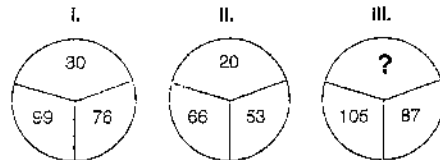
- A) 54 B) 55 C) 56 D) 57 E) 58

5.



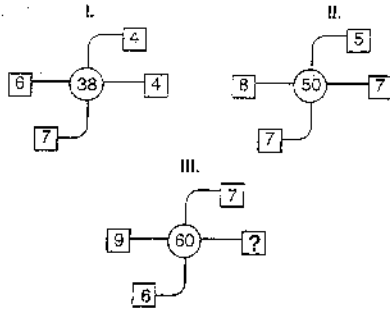
- A) 8 B) 11 C) 15 D) 21 E) 24

6.



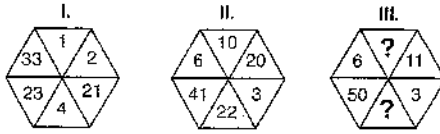
- A) 25 B) 32 C) 37 D) 46 E) 54

7.



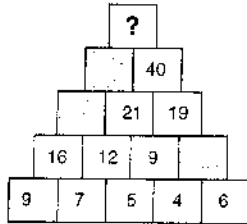
- A) 2 B) 4 C) 6 D) 8 E) 9

8.



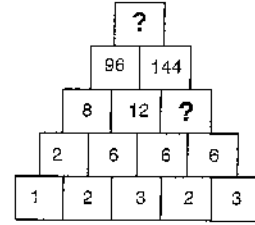
- A) 1 ; 23 B) 11 ; 4 C) 2 ; 23 D) 2 ; 40 E) 1 ; 40

9.



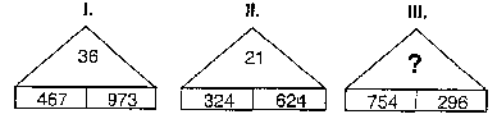
- A) 73 B) 88 C) 89 D) 92 E) 104

10.



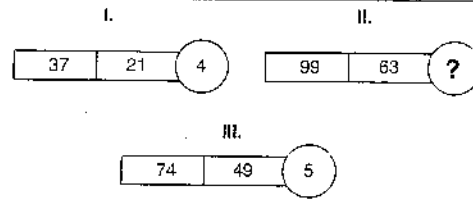
- A) 36,240 B) 36,196 C) 18,216
D) 12,228 E) 12,240

11.



- A) 16 B) 29 C) 33 D) 46 E) 54

12.

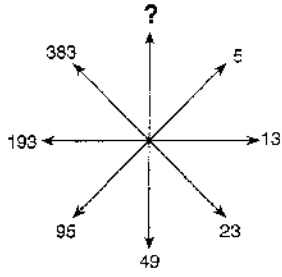


- A) 3 B) 4 C) 5 D) 6 E) 7

Yanıtlar / Answers

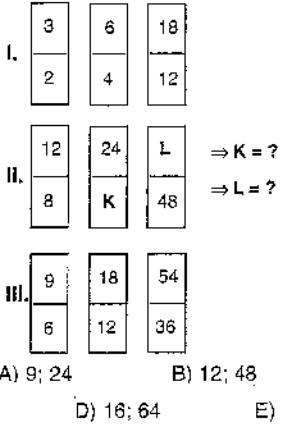
1. E 2. E 3. B 4. D 5. D 6. A
7. E 8. E 9. C 10. E 11. C 12. D

1.



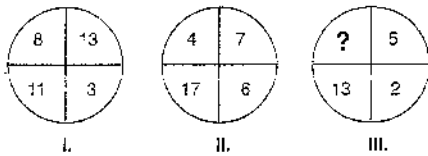
- A) 769 B) 740 C) 707 D) 687 E) 654

2.



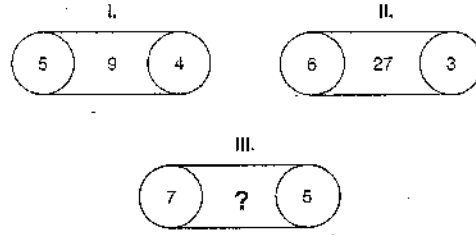
- A) 9; 24 B) 12; 48 C) 12; 54
D) 16; 64 E) 16; 72

3.



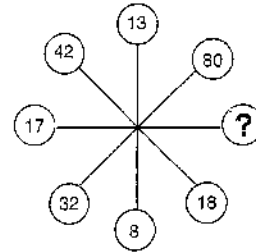
- A) 7 B) 8 C) 9 D) 10 E) 11

4.



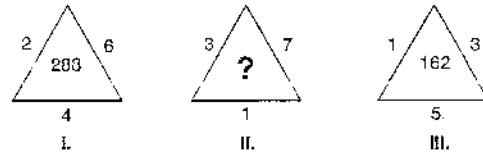
- A) 12 B) 16 C) 20 D) 24 E) 28

5.



- A) 9 B) 11 C) 32 D) 36 E) 64

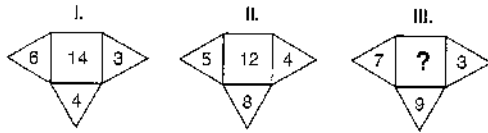
6.



- B) 166 C) 188 D) 290 E) 242

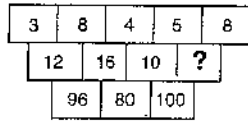
A) 198

7.



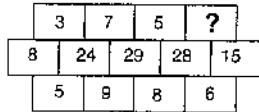
- A) 11 B) 12 C) 13 D) 14 E) 15

8.



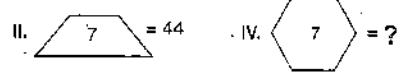
- A) 16 B) 18 C) 20 D) 22 E) 24

9.



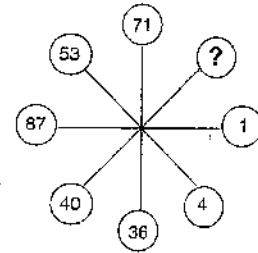
- A) 9 B) 4 C) 2 D) 1 E) 10

10.



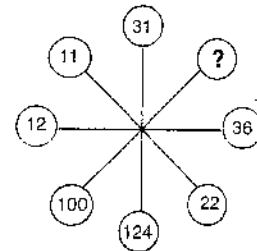
- A) 13 B) 21 C) 42 D) 63 E) 78

11.



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

12.

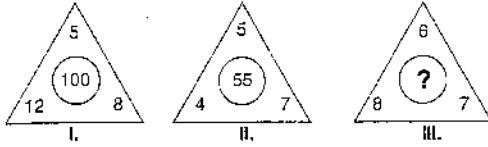


- A) 12 B) 48 C) 100 D) 120 E) 144

Yanıtlar / Answers

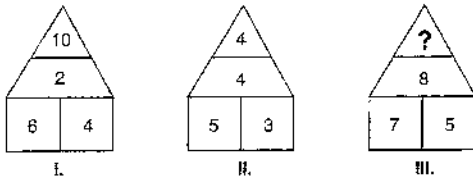
1. A	2. E	3. C	4. D	5. C	6. E
7. B	8. C	9. A	10. E	11. E	12. C

1.



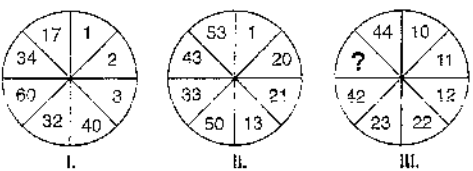
- A) 70 B) 80 C) 90 D) 100 E) 140

2.



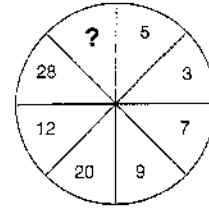
- A) 3 B) 4 C) 5 D) 6 E) 7

3.



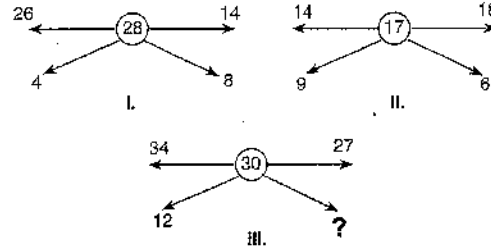
- A) 52 B) 57 C) 64 D) 68 E) 74

4.



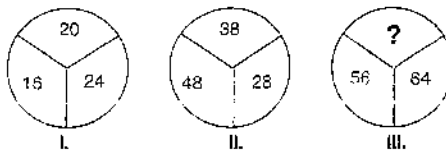
- A) 18 B) 24 C) 32 D) 36 E) 48

5.



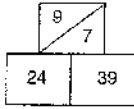
- A) 17 B) 18 C) 19 D) 20 E) 21

6.

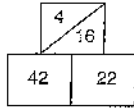


- A) 66 B) 64 C) 62 D) 60 E) 58

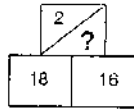
7.



I.



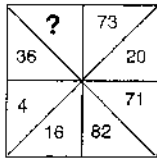
II.



III.

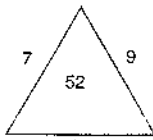
- A) 16 B) 16 C) 17 D) 18 E) 19

8.

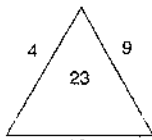


- A) 16 B) 25 C) 36 D) 49 E) 64

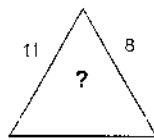
9.



I.



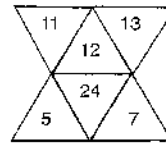
II.



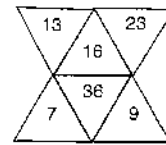
III.

- A) 36 B) 44 C) 51 D) 64 E) 71

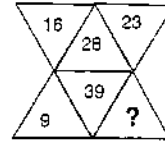
10.



I.



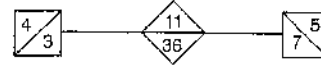
II.



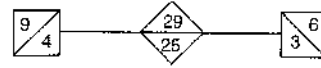
III.

- A) 15 B) 16 C) 17 D) 19 E) 21

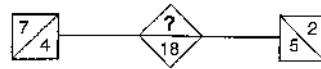
11.



I.



II.



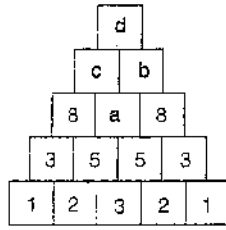
III.

- A) 19 B) 20 C) 21 D) 22 E) 23

Yanıtlar / Answers

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

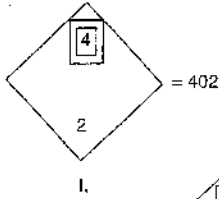
1.



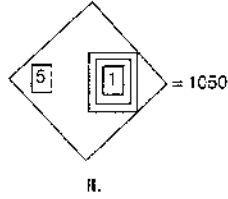
$$\Rightarrow a + b + c + d = ?$$

- A) 36 B) 54 C) 60 D) 72 E) 82

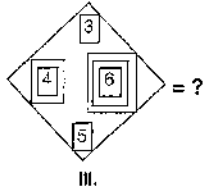
2.



I.



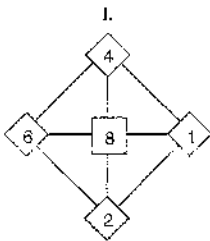
II.



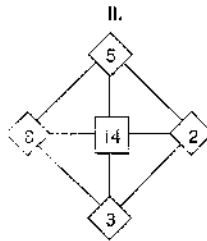
III.

- A) 6850 B) 6635 C) 6480 D) 6354 E) 6246

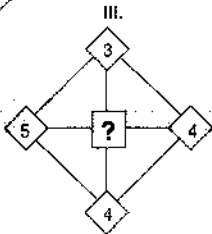
3.



I.



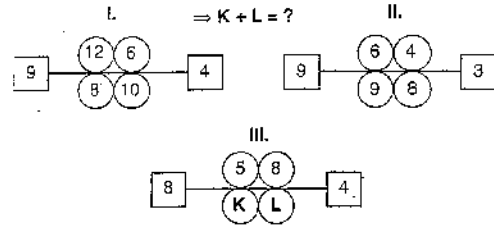
II.



III.

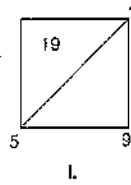
- A) 1 B) 2 C) 4 D) 6 E) 8

4.

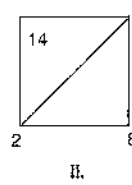


- A) 17 B) 18 C) 19 D) 20 E) 21

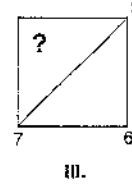
5.



I.



II.



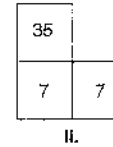
III.

- A) 23 B) 32 C) 40 D) 41 E) 44

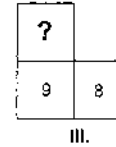
6.



I.



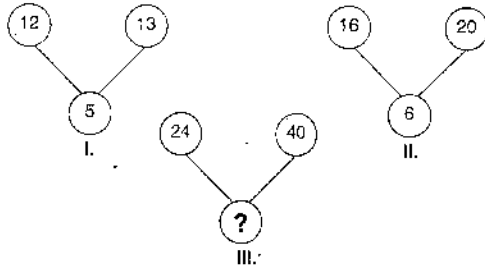
II.



III.

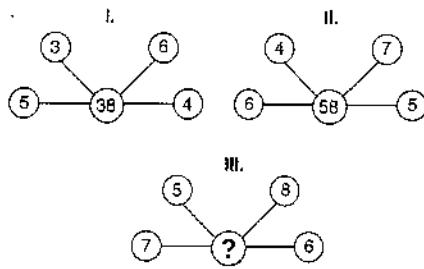
- A) 55 B) 54 C) 53 D) 52 E) 51

7.



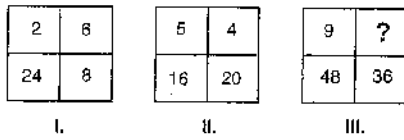
- A) 4 B) 6 C) 8 D) 10 E) 12

8.



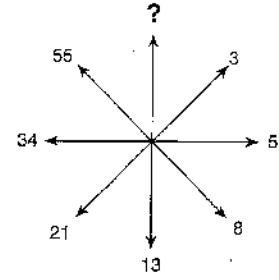
- A) 68 B) 78 C) 82 D) 98 E) 104

9.



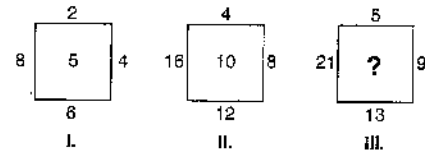
- A) 12 B) 24 C) 48 D) 56 E) 64

10.



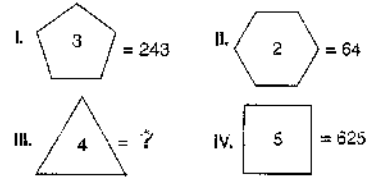
- A) 46 B) 47 C) 60 D) 69 E) 89

11.



- A) 11 B) 12 C) 15 D) 18 E) 21

12.

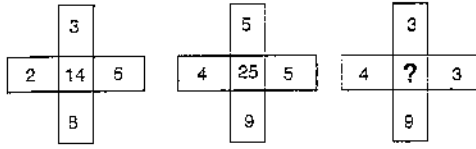


- A) 16 B) 36 C) 64 D) 92 E) 108

Yanıtlar / Answers

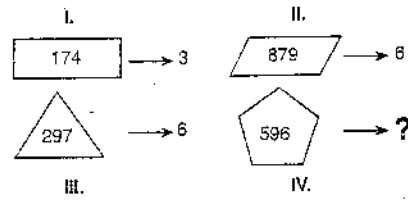
1. E	2. C	3. E	4. C	5. A	6. A
7. C	8. C	9. A	10. E	11. B	12. C

1.



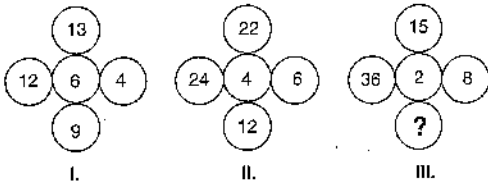
- A) 13 B) 15 C) 17 D) 21 E) 24

4.



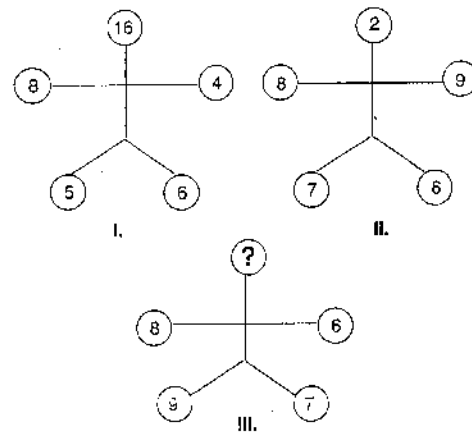
- A) 4 B) 5 C) 8 D) 12 E) 15

2.



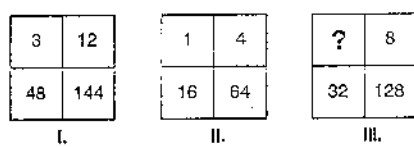
- A) 27 B) 28 C) 29 D) 30 E) 31

5.



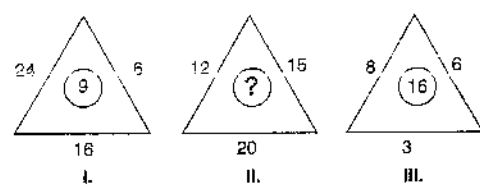
- A) 12 B) 24 C) 30 D) 32 E) 41

3.



- A) 1 B) 2 C) 4 D) 6 E) 16

6.



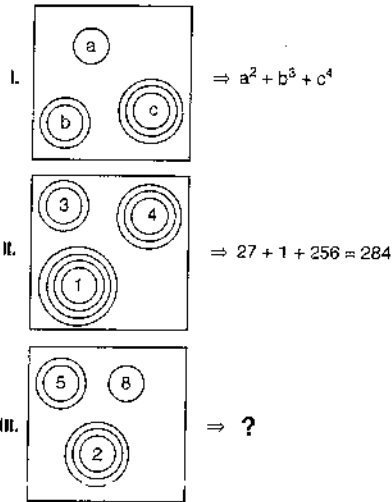
- A) 6 B) 9 C) 12 D) 14 E) 16

7.

- I. 782 — (1)
 II. 4727 — (2)
 III. 72747 — (3)
 IV. 67375 — (?)

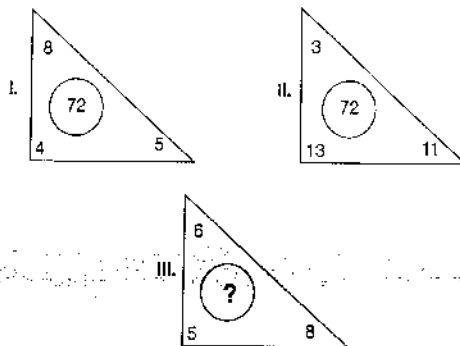
A) 2 B) 3 C) 4 D) 5 E) 6

8.



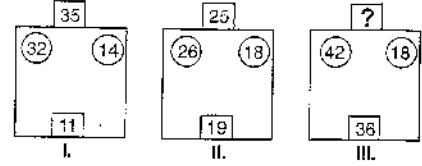
A) 41 B) 138 C) 205 D) 235 E) 315

9.



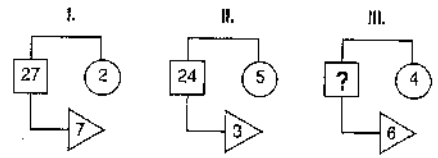
A) 63 B) 69 C) 78 D) 82 E) 94

10.



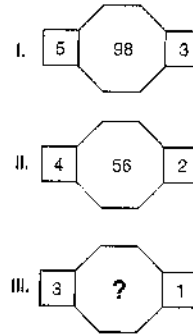
A) 18 B) 20 C) 21 D) 24 E) 28

11.



A) 28 B) 30 C) 32 D) 34 E) 36

12.



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

Yanıtlar / Answers

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

1. I. II. III.
-
- IV. V.
- A) 46 B) 47 C) 48 D) 49 E) 50

4. I. II. III.
-
- A) 3 B) 4 C) 5 D) 6 E) 7

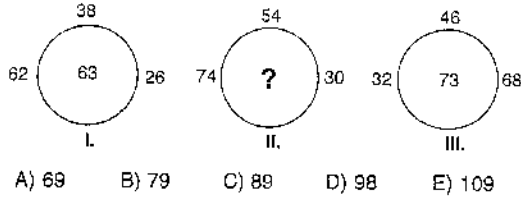
2. I. II. III.
-
- IV. V.
- A) 39 B) 42 C) 45 D) 48 E) 51

5. I. II. III.
-
- A) 5 B) 6 C) 7 D) 8 E) 9

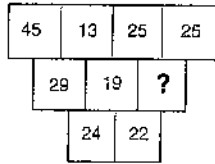
3. I. II. III.
-
- A) 4 B) 5 C) 6 D) 7 E) 8

6. I. II. III.
-
- A) 3 B) 4 C) 5 D) 6 E) 7

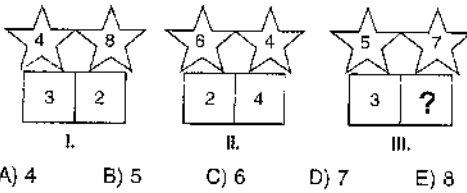
7.



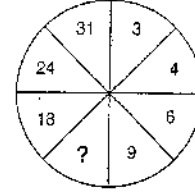
8.



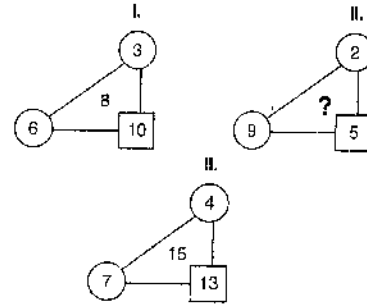
9.



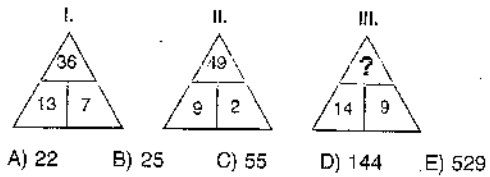
10.



11.



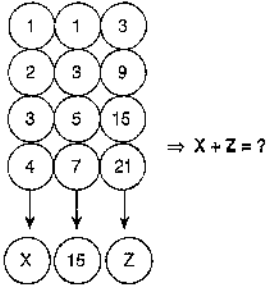
12.



Yanıtlar / Answers

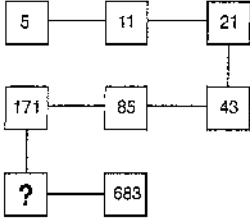
1. D	2. C	3. B	4. B	5. D	6. A
7. B	8. C	9. B	10. A	11. C	12. B

1.



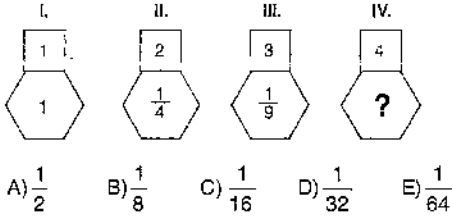
- A) 50 B) 51 C) 52 D) 53 E) 54

2.

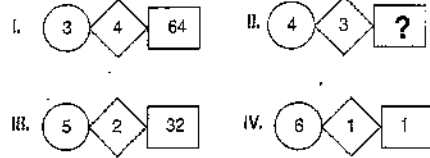


- A) 338 B) 339 C) 340 D) 341 E) 342

3.



4.



- A) 16 B) 64 C) 81 D) 128 E) 256

5.

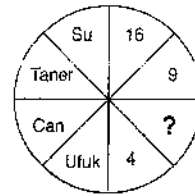
I. $3x - 5 = 7$

II. $5y - 6 = 9$

III. $?$

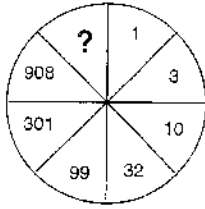
- A) $4z + 8 = 20$ B) $4z - 7 = 13$ C) $4z - 6 = 30$
D) $4z - 5 = 19$ E) $4z - 8 = 10$

6.



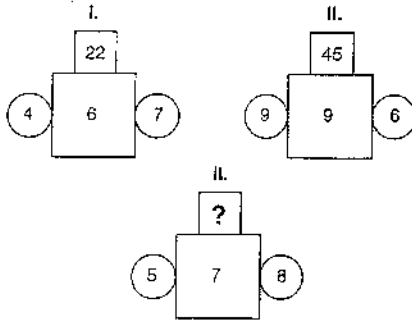
- A) 5 B) 10 C) 15 D) 20 E) 25

7.



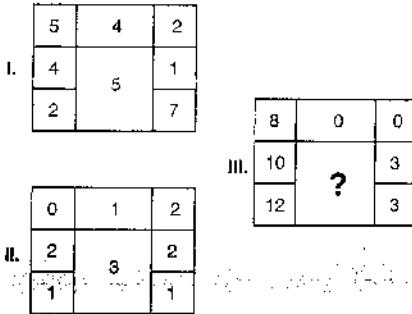
- A) 2630 B) 2730 C) 3630 D) 3645 E) 3680

8.



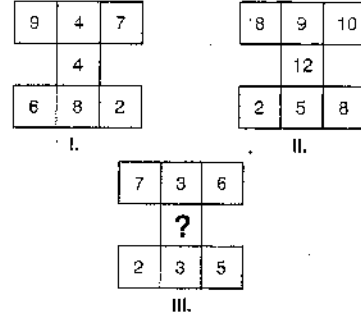
- A) 31 B) 32 C) 33 D) 34 E) 35

9.



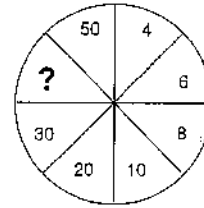
- A) 4 B) 5 C) 6 D) 7 E) 8

10.



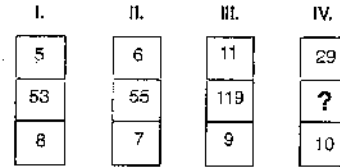
- A) 5 B) 6 C) 7 D) 8 E) 9

11.



- A) 24 B) 36 C) 40 D) 48 E) 52

12.

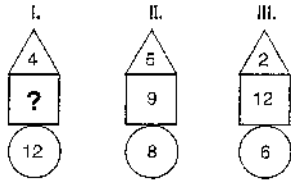


- A) 129 B) 229 C) 290 D) 329 E) 339

Yanıtlar / Answers

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

1.



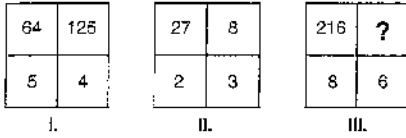
- A) 12 B) 16 C) 20 D) 24 E) 28

4.

1	4	9	16	25	36	?
7	8	10	13	17	22	?

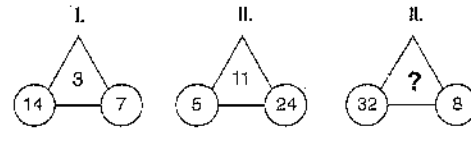
- A) 48 29 B) 49 29 C) 48 28 D) 49 28 E) 49 27

2.



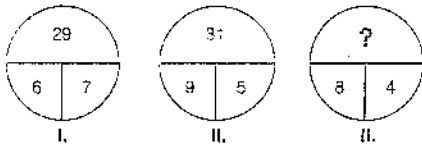
- A) 428 B) 456 C) 512 D) 572 E) 743

5.



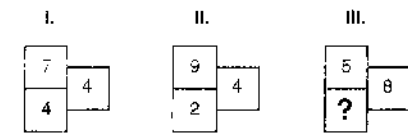
- A) 3 B) 4 C) 5 D) 6 E) 7

3.



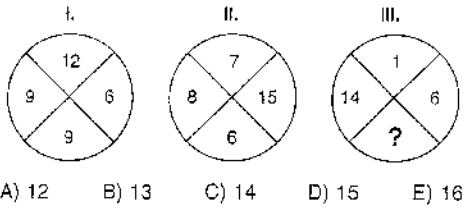
- A) 18 B) 20 C) 22 D) 24 E) 26

6.



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

7.

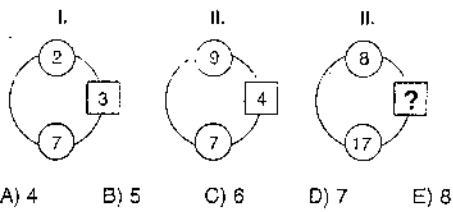


8.

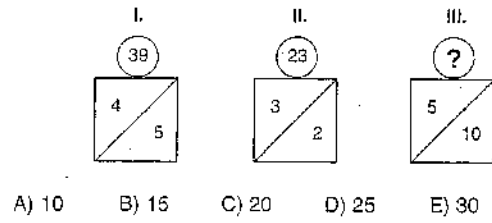
5	6	9	16	21	34	?
4	6	10	14	24	30	?

- A) 41 B) 40 C) 42 D) 41 E) 40
46 47 45 36 46

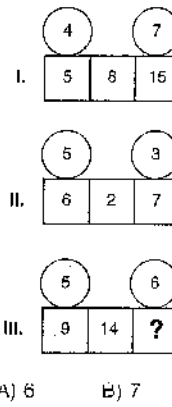
9.



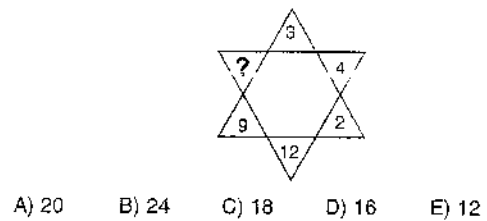
10.



11.



12.



Yanıtlar / Answers

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

1. I. II. III.

4	6	1
3	9	2
5	8	4

7	15	K
8	17	6

L	32	9

$K = ? ; L = ?$

A) 2 ; 14 B) 3 ; 14 C) 3 ; 15
D) 4 ; 15 E) 4 ; 16

4. I. II.

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

		10		13	
	15		12		6
		K		13	
	9		15		

III.

			24		
		L		19	
			21		
			25		

$K = ? ; L = ?$

A) 7 ; 27 B) 7 ; 28 C) 8 ; 26
D) 8 ; 27 E) 9 ; 28

2. I. II.

		4		
	7		5	
1		2		3
	2		4	
		5		

		35		
	2		K	
		8		

III.

		35		
		L		
		8		

$K = ? ; L = ?$

A) 4 ; 8 B) 5 ; 5 C) 5 ; 12
D) 6 ; 12 E) 6 ; 14

5. I. II. III.

4				
	5			
	3		3	
		4		
	5		8	
	2			
	2			

		K		
		2		
	3		6	
		3		
	4			

	2			
		L		
	2			

$K = ? ; L = ?$

A) 2 ; 1 B) 1 ; 2 C) 1 ; 1
D) 2 ; 2 E) 0 ; 2

3. I. II.

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

	7		8		
		8		11	
	5		4		
		8		K	

III.

		15			
			22		
		L			
			17		

$K = ? ; L = ?$

A) 8 ; 9 B) 8 ; 10 C) 9 ; 9
D) 9 ; 10 E) 10 ; 6

6. I. II.

8		4		12		8
	7		5		15	13
		2		14		13
	5		9		5	13

	6		8		10	
		6		10		K
	4		8		16	
		7		7		9

III.

		L		9		
			8		12	
		8		12		
			7		8	

$K = ? ; L = ?$

A) 12 ; 7 B) 14 ; 7 C) 14 ; 8
D) 16 ; 6 E) 16 ; 7

7. I. II. III. IV.
- | | | | |
|----|----|----|----|
| 47 | 65 | 93 | 84 |
| 10 | 3 | 9 | ? |
- A) 2 B) 3 C) 4 D) 5 E) 6

- 8.
- | | | | |
|----|----|----|----|
| 11 | 30 | 22 | 50 |
| 36 | 71 | 25 | 33 |
| 64 | ? | | |
- A) 53 B) 54 C) 55 D) 56 E) 57

9. I. II. III.
- | | | |
|-------|-------|-------|
| 9 8 | 5 3 | 6 3 |
| 6 2 | 7 2 | 7 1 |
| 9 ? | | |
- A) 1 B) 2 C) 3 D) 4 E) 5

10. I. II. III.
- | | | |
|-------|-------|-------|
| 1 1 | 2 1 | 1 3 |
| 2 2 | 1 5 | 3 ? |
| 1 7 | 4 2 | |
- A) 1 B) 2 C) 3 D) 4 E) 5

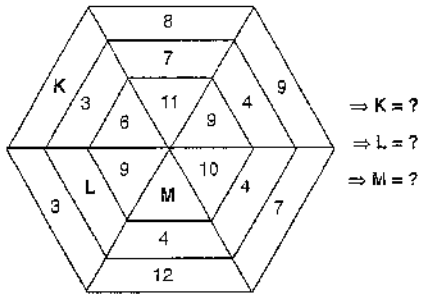
11. I. II. III.
- | | | |
|-----|-----|-----|
| 244 | 650 | 363 |
| 751 | 446 | 294 |
| ? | | |
- A) 444 B) 445 C) 446 D) 447 E) 448

12. I. II. III.
- | | | |
|-----|-----|-----|
| 8 | 27 | ? |
| 125 | 216 | 343 |
| 512 | | |
- A) 62 B) 64 C) 66 D) 70 E) 72

Yanıtlar / Answers

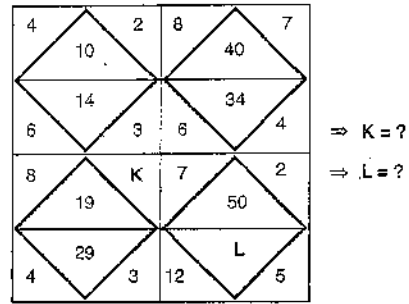
1. C	2. D	3. C	4. B	5. D	6. B
7. D	8. D	9. B	10. B	11. E	12. B

1.



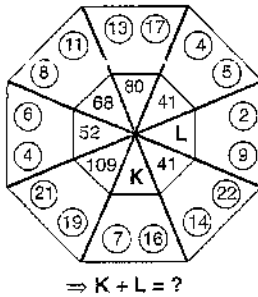
	K	L	M
A)	4	5	12
B)	4	5	11
C)	5	6	12
D)	3	4	11
E)	5	4	10

3.



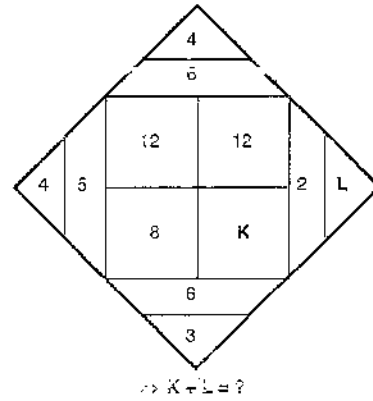
	K	L
A)	6	10
B)	8	10
C)	7	9
D)	6	9
E)	8	8

2.



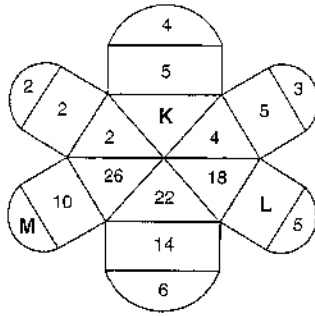
- A) 180 B) 181 C) 182 D) 183 E) 184

4.



- A) 20 B) 21 C) 22 D) 23 E) 24

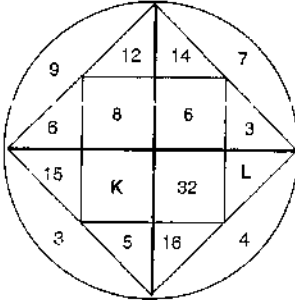
5.



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

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

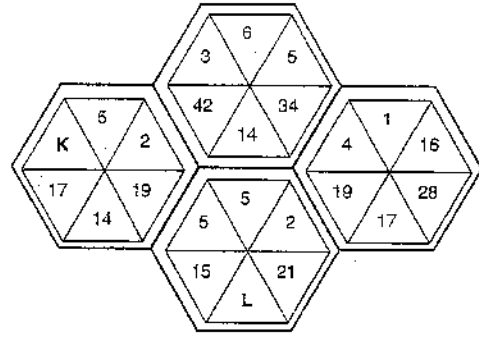
6.



$$\Rightarrow K + L = ?$$

- A) 30 B) 31 C) 32 D) 33 E) 34

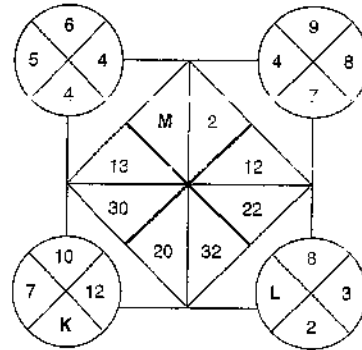
7.



$$\Rightarrow K = ?, L = ?$$

	K	L
A)	5	13
B)	6	12
C)	7	13
D)	6	14
E)	5	14

8.



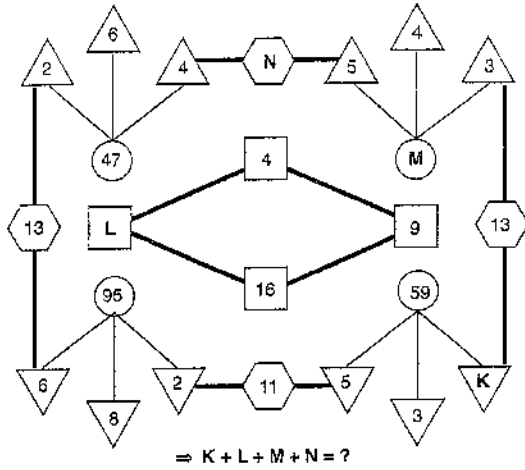
$$\Rightarrow K = ?, L = ?, M = ?$$

	K	L	M
A)	4	20	33
B)	4	20	41
C)	3	21	33
D)	3	21	23
E)	5	22	41

Yanıtlar / Answers

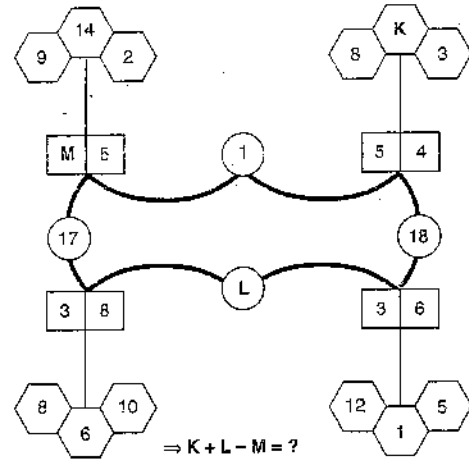
1. C 2. D 3. D 4. B 5. B 6. D
7. E 8. E

1.



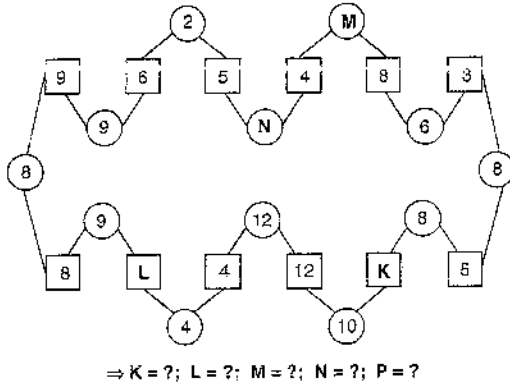
- A) 108 B) 109 C) 110 D) 111 E) 112

3.



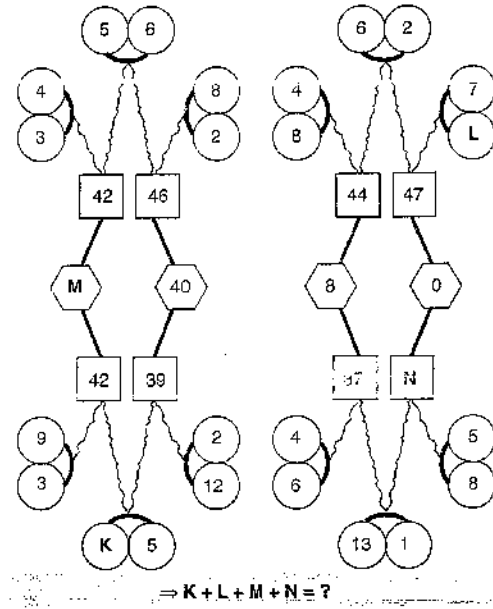
- A) 4 B) 5 C) 6 D) 7 E) 8

2.



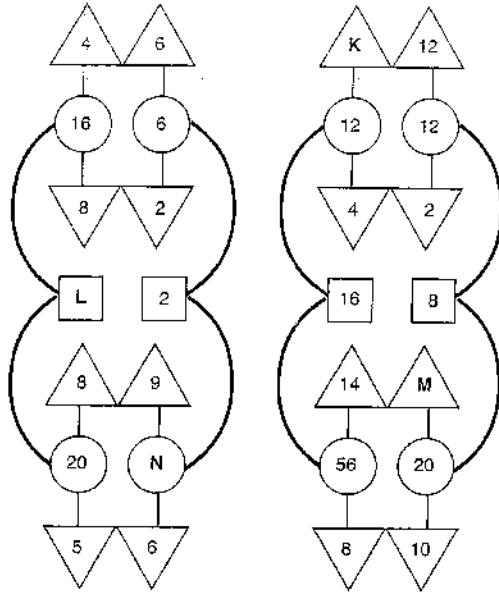
	K	L	M	N
A)	7	9	3	2
B)	7	8	2	3
C)	6	8	3	3
D)	6	10	3	4
E)	5	9	4	2

4.



- A) 92 B) 93 C) 94 D) 95 E) 96

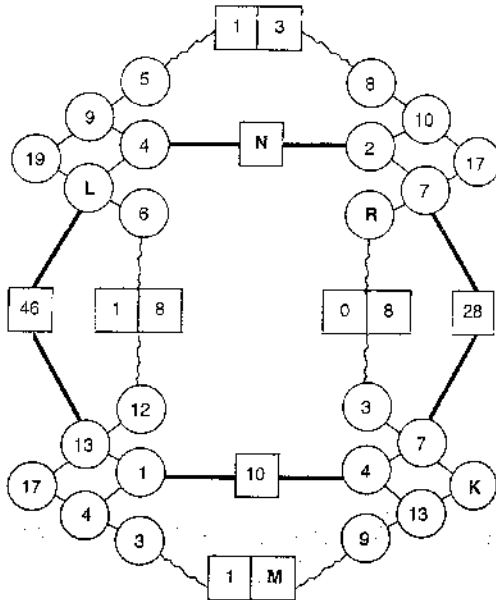
5.



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

	K	L	M	N
A)	10	4	6	27
B)	8	8	4	21
C)	8	6	2	21
D)	6	6	2	18
E)	6	4	4	27

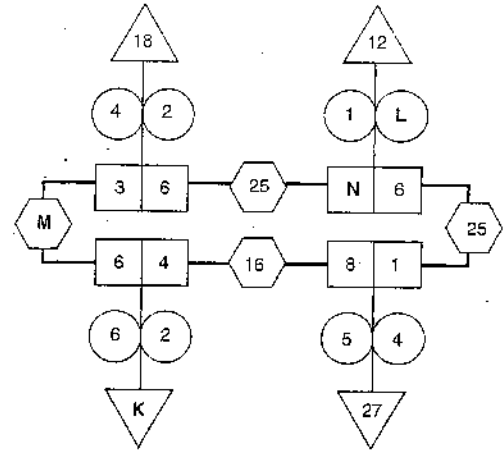
6.



$$\Rightarrow (K + L + M) - (N + R) = ?$$

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

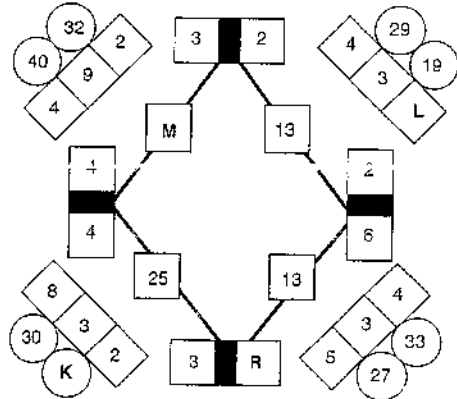
7.



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

	K	L	M	N
A)	24	6	9	2
B)	28	3	12	2
C)	28	6	12	3
D)	24	3	9	1
E)	32	9	15	3

8.



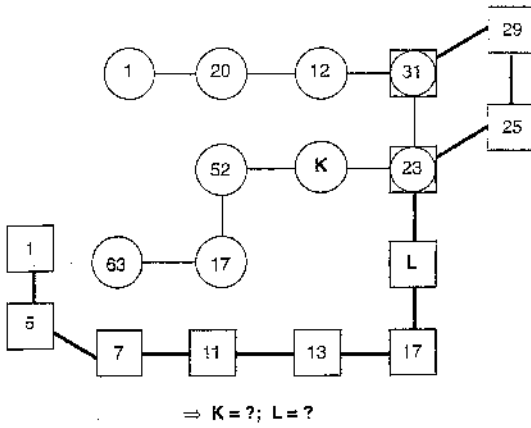
$$\Rightarrow K = ?; L = ?; M = ?; N = ?$$

	K	L	M	N
A)	17	5	18	8
B)	16	5	18	7
C)	16	3	17	7
D)	17	3	19	6
E)	18	4	19	8

Yanıtlar / Answers

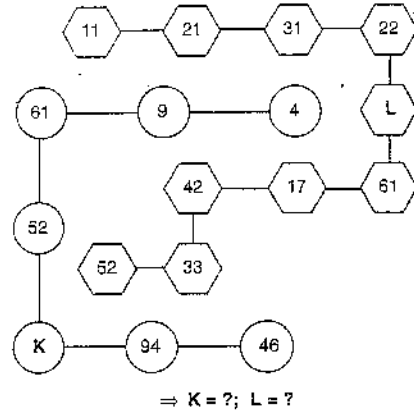
1. B 2. A 3. C 4. B 5. E 6. D
7. D 8. E

1.



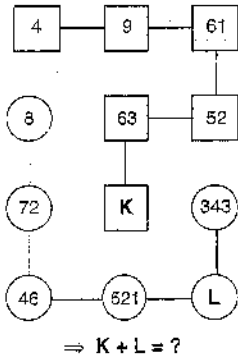
- A) 33; 21 B) 34; 19 C) 34; 21
D) 33; 19 E) 32; 20

3.



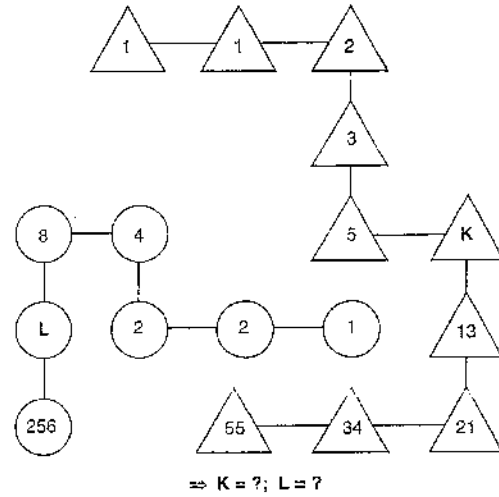
- A) 63; 16 B) 63; 15 C) 61; 15
D) 61; 14 E) 65; 16

2.



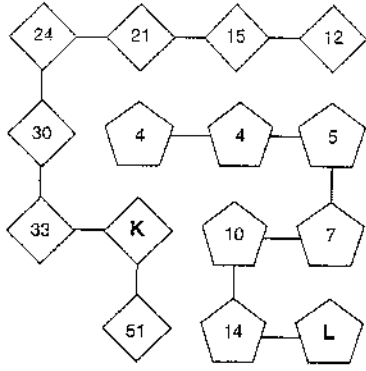
- A) 706 B) 705 C) 704 D) 703 E) 702

4.



- A) 4; 16 B) 4; 32 C) 8; 32
D) 8; 64 E) 12; 64

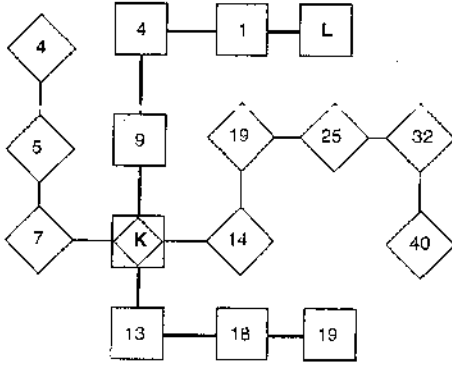
5.



$$\Rightarrow K + L = ?$$

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

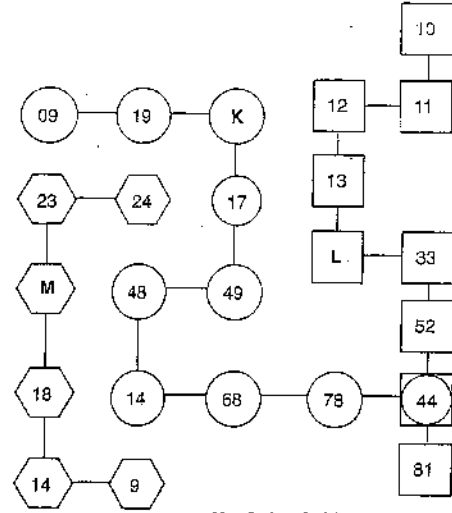
6.



$$\Rightarrow K + L = ?$$

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

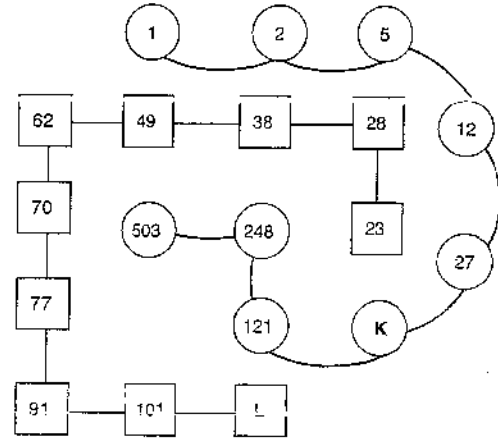
7.



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

	K	L	M
A)	18	32	21
B)	18	31	23
C)	17	31	22
D)	17	30	21
E)	19	32	23

8.



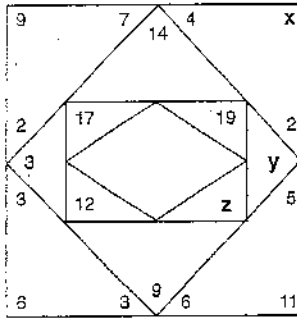
$$\Rightarrow K = ?; L = ?$$

- A) 56; 101 B) 57; 102 C) 58; 102
D) 58; 103 E) 59; 103

Yanıtlar / Answers

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

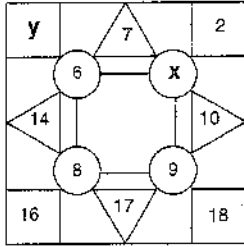
1.



$$\Rightarrow x; y; z = ?$$

- A) 3; 2; 7 B) 6; 5; 14 C) 8; 6; 28
D) 2; 3; 28 E) 2; 3; 28

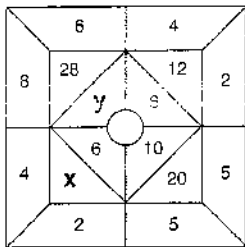
2.



$$\Rightarrow x; y = ?$$

- A) 1; 12 B) 6; 12 C) 1; 6
D) 9; 3 E) 3; 9

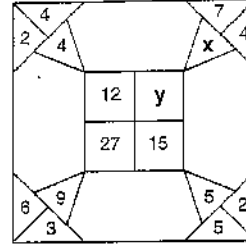
3.



$$\Rightarrow x; y = ?$$

- A) 9; 12 B) 6; 12 C) 6; 14
D) 12; 14 E) 16; 26

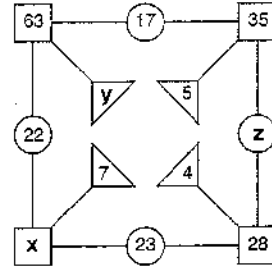
4.



$$\Rightarrow x; y = ?$$

- A) 4; 28 B) 28; 3 C) 54; 17
D) 14; 42 E) 27; 42

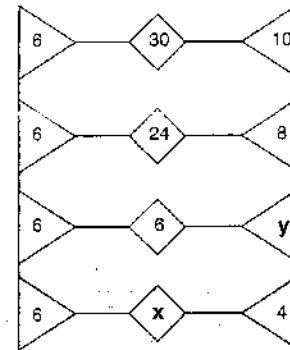
5.



$$\Rightarrow x + y + z = ?$$

- A) 76 B) 75 C) 74 D) 73 E) 72

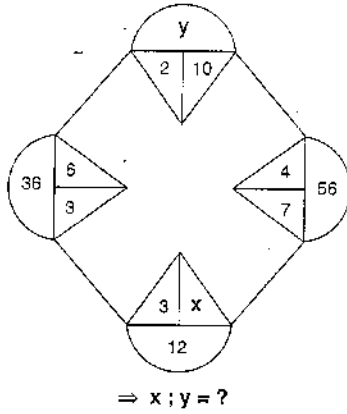
6.



$$\Rightarrow x; y = ?$$

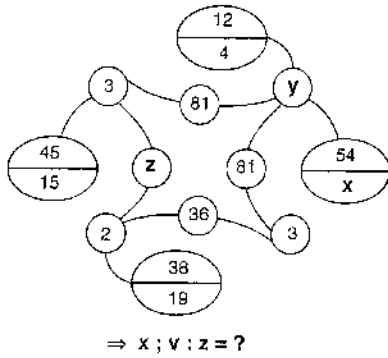
- A) 6; 8 B) 6; 12 C) 12; 2
D) 8; 10 E) 12; 8

7.



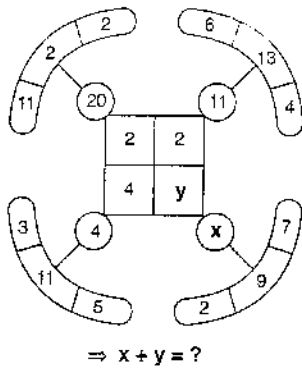
- A) 8, 8 B) 4, 10 C) 2, 20
D) 1, 2 E) 2, 40

8.



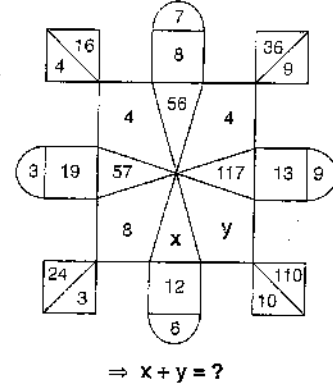
- A) 18; 36; 72 B) 33; 5; 6 C) 18; 3; 36
D) 9; 6; 18 E) 9; 27; 81

9.



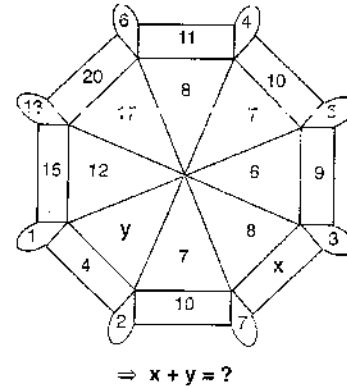
- A) 4 B) 6 C) 8 D) 10 E) 12

10.



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

11.

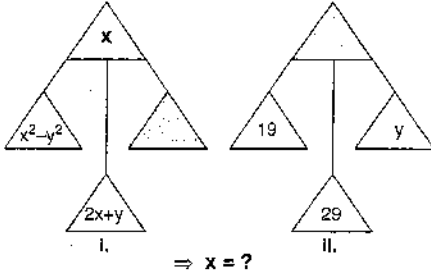


- A) 12 B) 14 C) 16 D) 18 E) 20

Yanıtlar / Answers

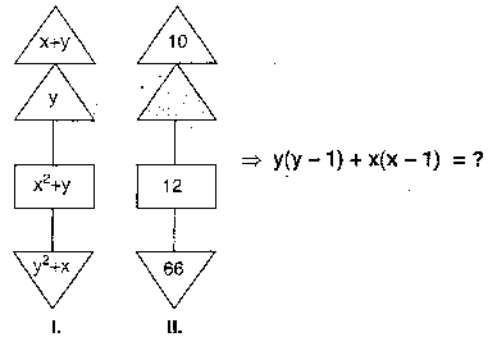
1. B	2. A	3. D	4. D	5. A	6. C
7. E	8. C	9. D	10. B	11. A	

1.



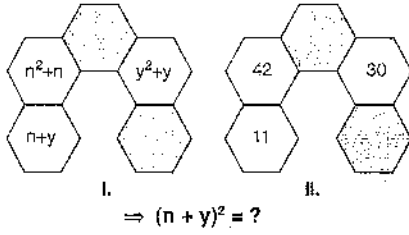
- A) 5 B) 6 C) 8 D) 10 E) 12

4.



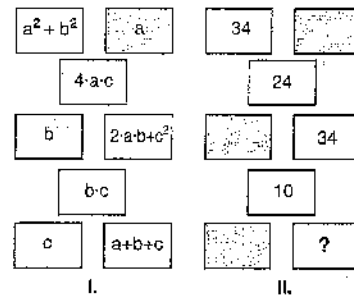
- A) 12 B) 24 C) 34 D) 48 E) 58

2.



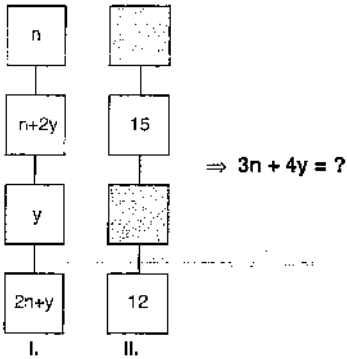
- A) 121 B) 100 C) 81 D) 64 E) 36

5.



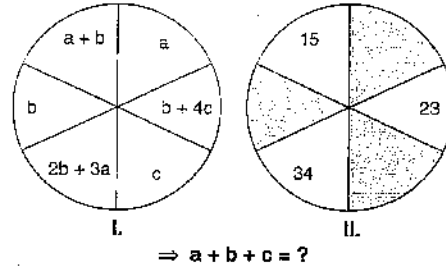
- A) 6 B) 8 C) 10 D) 18 E) 36

3.



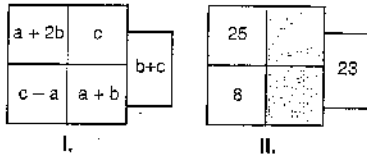
- A) 18 B) 27 C) 25 D) 33 E) 36

6.



- A) 11 B) 15 C) 18 D) 24 E) 30

7.



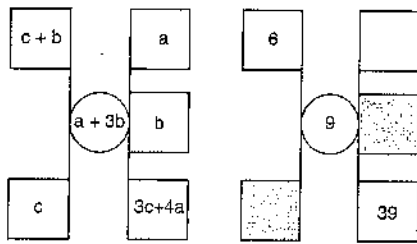
I.

II.

$$\Rightarrow b = ?$$

- A) 3 B) 7 C) 10 D) 12 E) 15

8.



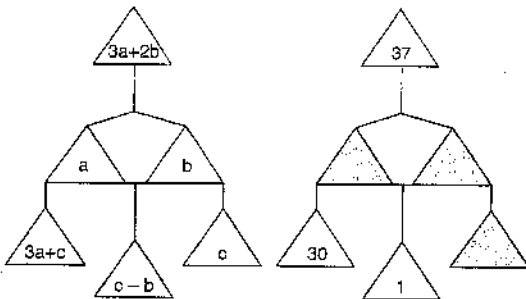
I.

II.

$$\Rightarrow (a + b + c)^2 = ?$$

- A) 36 B) 49 C) 64 D) 121 E) 144

9.



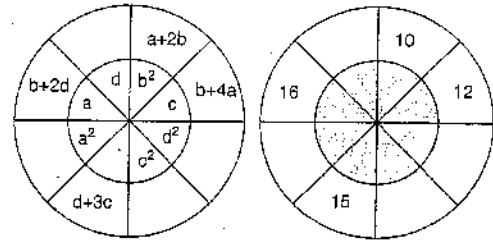
I.

II.

$$\Rightarrow c = ?$$

- A) 3 B) 7 C) 9 D) 12 E) 15

10.



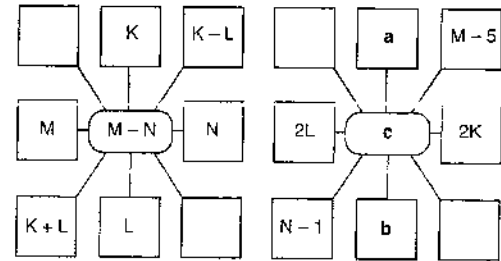
I.

II.

$$\Rightarrow a + c = ?$$

- A) 1 B) 3 C) 4 D) 5 E) 8

11.



I.

II.

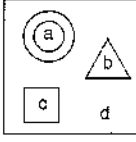
$$\Rightarrow a + b + c = ?$$

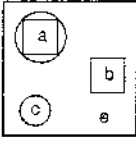
- A) 5 B) 6 C) 7 D) 8 E) 9

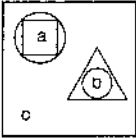
Yanıtlar / Answers

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

1.

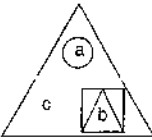
I.  $\equiv (a^2)^2 + 3b + 4c + d$

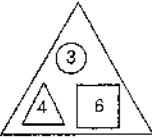
II.  $\equiv (4a)^2 + c^2 + 4b + e$

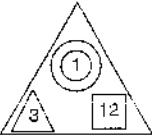
III.  $\equiv ?$

- A) $(a^2)^2 + (b^2)^3 + c$
 B) $16a^2 + 3(b^2) + c$
 C) $8a^4 + 3b^2 + (c)^2$
 D) $(2a)^4 + b^2 + c$
 E) $4a^2 + 3b^2 + c^2$

2.

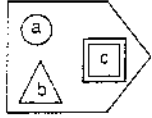
I.  $\equiv (a^2 + \frac{6b}{4} + c) \cdot 6$

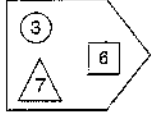
II.  $\equiv 6 \cdot ((3)^2 + (6 \cdot 4) + \frac{6}{4})$

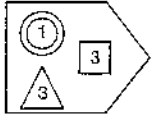
III.  $\equiv ?$

- A) 62
 B) 66
 C) 126
 D) 132
 E) 136

3.

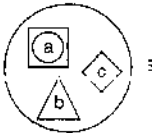
I.  $\equiv \frac{2a + 3b + 4 \cdot (4c)}{5}$

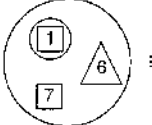
II.  $\equiv \frac{6 + 21 + 24}{5}$

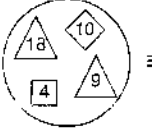
III.  $\equiv ?$

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

4.

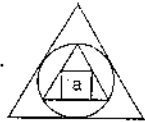
I.  $\equiv \left(\frac{a^2}{4} \times \frac{b}{2} \times \frac{c}{5} \right)^2$

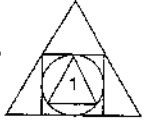
II.  $\equiv \left(\left(\frac{1}{4} \right)^2 \times \left(\frac{7}{4} \right) \times \frac{6}{3} \right)^2$

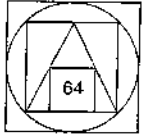
III.  $\equiv ?$

- A) $(48)^2$
 B) $(36)^2$
 C) $(24)^2$
 D) $(18)^2$
 E) $(12)^2$

5.

I.  $\equiv \left[\frac{a}{4} \cdot 3 \right]^2 \cdot 3$

II.  $\equiv \frac{27}{4}$

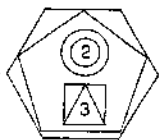
III.  $\equiv ?$

A) 144 B) 72 C) 58 D) 36 E) 6

6.

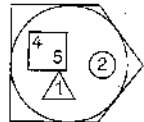
I.  $\equiv \frac{\left(\frac{a^2 + b}{4} \right) \times 6}{3}$

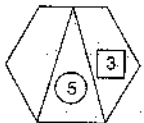
II.  $\equiv \left(\frac{\left(\frac{6}{4} + 2 \right)}{3} \right)^2 \times 6$

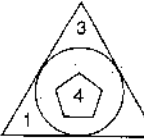
III.  $\equiv ?$

A) $\frac{3}{8}$ B) $\frac{1}{4}$ C) $\frac{65}{32}$
D) $\frac{65}{16}$ E) $\frac{195}{2}$

7.

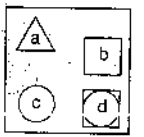
I.  $\equiv ((4 + 5) + 4) + (1 + 3) + 2^2 + 5$

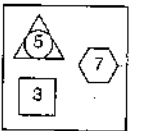
II.  $\equiv ((25 + 3) + 7) + 6$

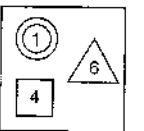
III.  $\equiv ?$

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

8.

I.  $\equiv (3 \cdot a + 4b + c0) + ((d0) \cdot 4)$

II.  $\equiv 204$

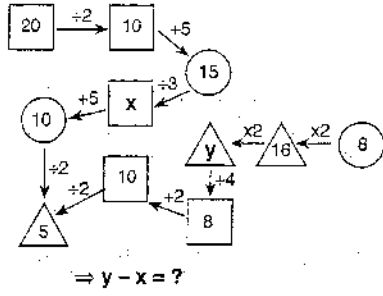
III.  $\equiv ?$

A) 130 B) 132 C) 134 D) 136 E) 138

Yanıtlar / Answers

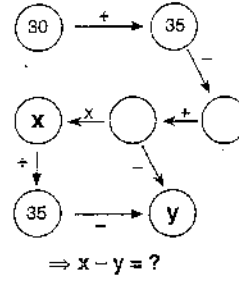
1. B 2. D 3. B 4. B 5. D 6. E
7. C 8. C

1.



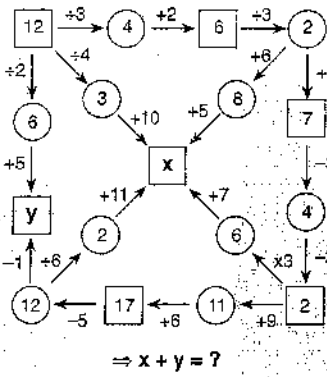
- A) 34 B) 32 C) 27 D) 16 E) 5

4.



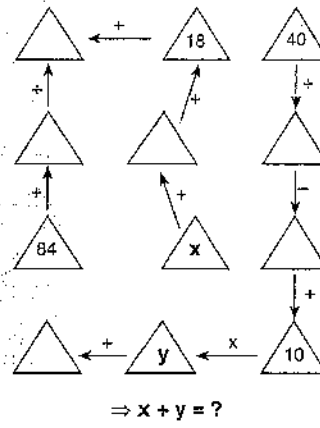
- A) 135 B) 140 C) 145 D) 150 E) 155

2.



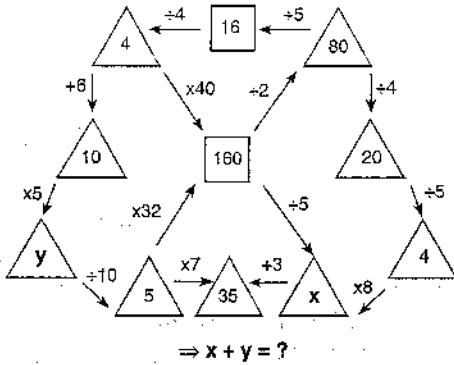
- A) 25 B) 24 C) 23 D) 22 E) 11

5.



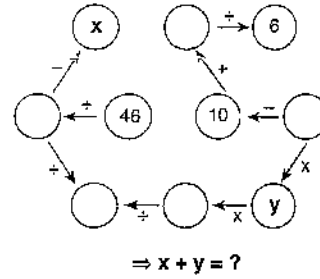
- A) 43 B) 50 C) 52 D) 54 E) 66

3.



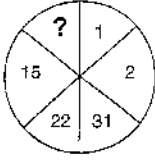
- A) 72 B) 75 C) 82 D) 90 E) 96

6.



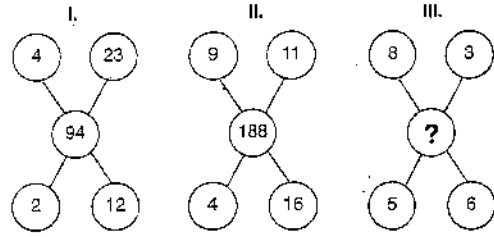
- A) 68 B) 70 C) 72 D) 74 E) 76

1.



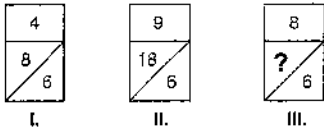
- A) 39 B) 43 C) 54 D) 56 E) 61

4.



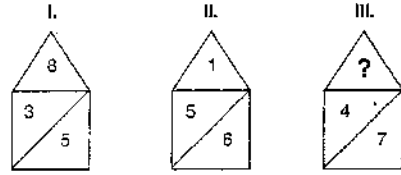
- A) 61 B) 62 C) 63 D) 64 E) 65

2.



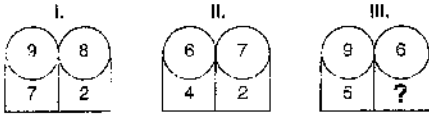
- A) 12 B) 14 C) 16 D) 18 E) 20

5.



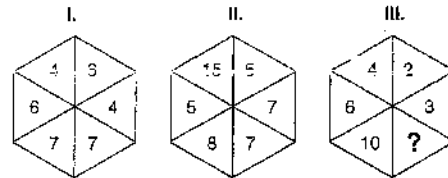
- A) 8 B) 27 C) 30 D) 31 E) 38

3.



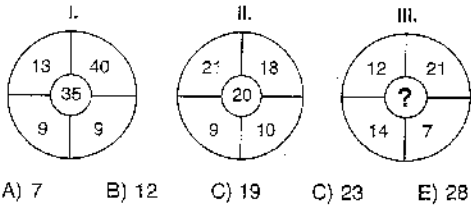
- A) 3 B) 4 C) 5 D) 6 E) 7

6.

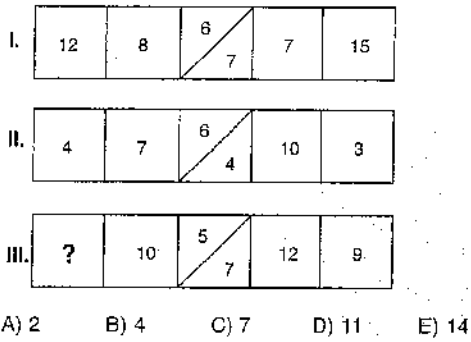


- A) 2 B) 6 C) 7 D) 9 E) 11

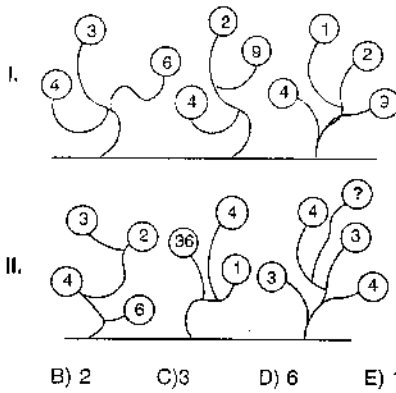
7.



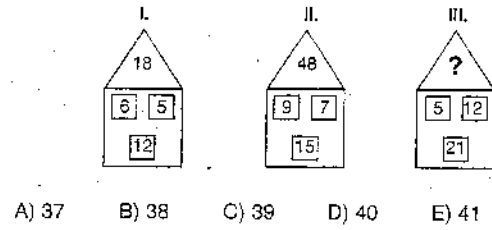
8.



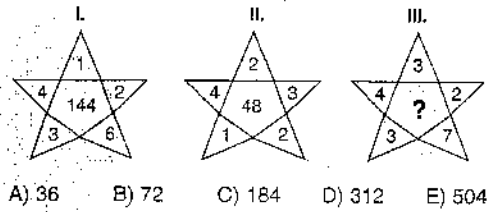
9.



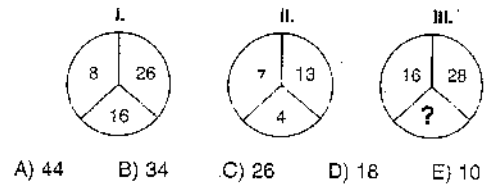
10.



11.



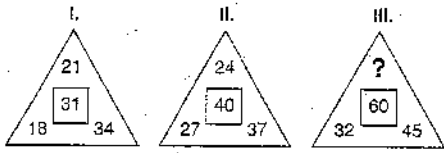
12.



Yanıtlar / Answers

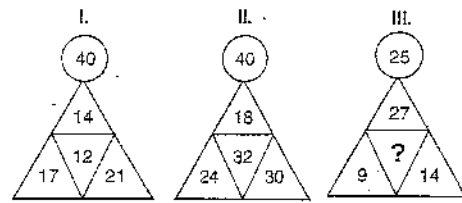
1. E	2. C	3. B	4. C	5. B	6. A
7. B	8. B	9. A	10. C	11. E	12. E

1.



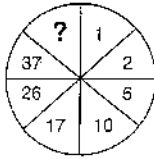
- A) 14 B) 15 C) 16 D) 17 E) 18

4.



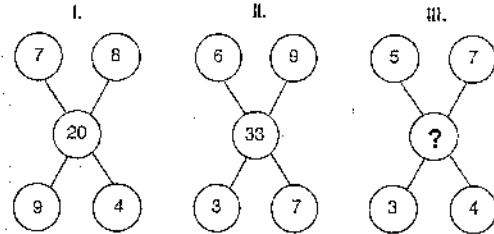
- A) 21 B) 22 C) 23 D) 24 E) 25

2.



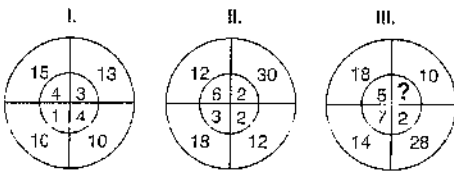
- A) 47 B) 48 C) 49 D) 50 E) 51

5.



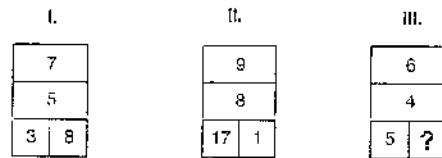
- A) 23 B) 24 C) 25 D) 26 E) 27

3.



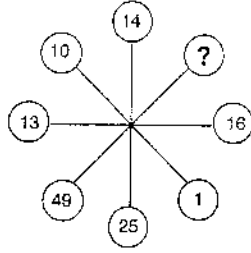
- A) 1 B) 5 C) 7 D) 11 E) 25

6.



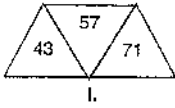
- A) 3 B) 4 C) 5 D) 6 E) 7

7.

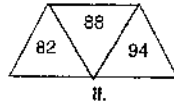


- A) 18 B) 14 C) 15 D) 26 E) 25

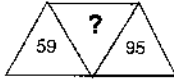
8.



I.



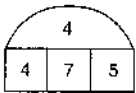
II.



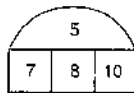
III.

- A) 77 B) 78 C) 79 D) 80 E) 81

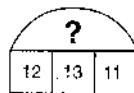
9.



I.



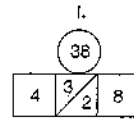
II.



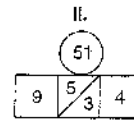
III.

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

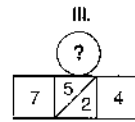
10.



I.



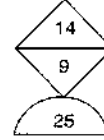
II.



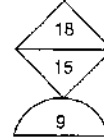
III.

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

11.



I.



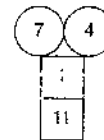
II.



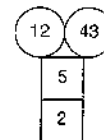
III.

- A) 16 B) 25 C) 36 D) 49 E) 64

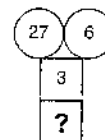
12.



I.



II.



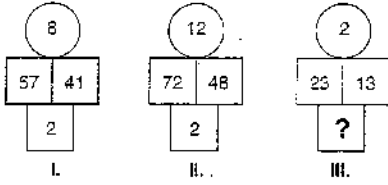
III.

- A) 5 B) 7 C) 9 D) 11 E) 13

Yanıtlar / Answers

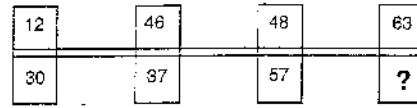
1. D	2. D	3. A	4. E	5. A	6. B
7. E	8. A	9. C	10. C	11. C	12. A

1.



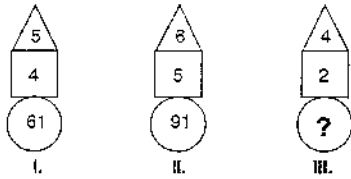
A) 4 B) 5 C) 6 D) 7 E) 8

4.



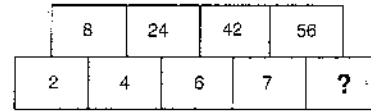
A) 68 B) 76 C) 90 D) 94 E) 96

2.



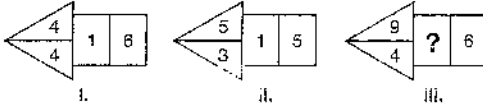
A) 44 B) 48 C) 52 D) 56 E) 60

5.



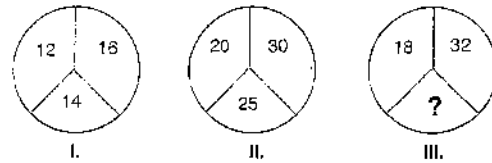
A) 3 B) 8 C) 10 D) 12 E) 14

3.



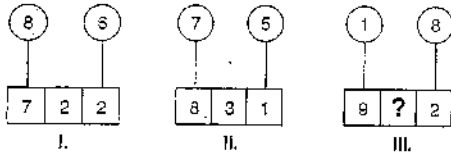
A) 2 B) 3 C) 4 D) 5 E) 6

6.



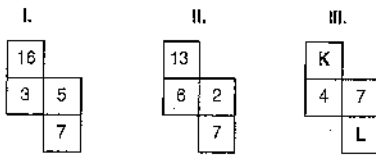
A) 20 B) 22 C) 25 D) 34 E) 46

7.



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

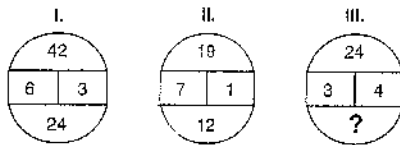
8.



$$\Rightarrow K + L = ?$$

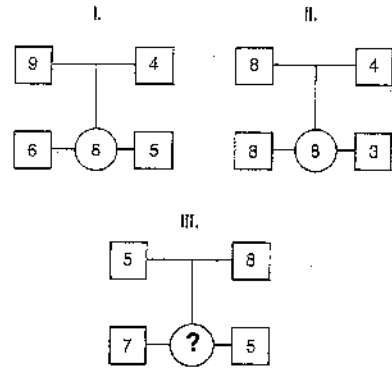
- A) 36 B) 37 C) 38 D) 39 E) 40

9.



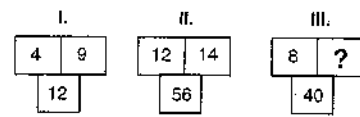
- A) 8 B) 9 C) 10 D) 11 E) 12

10.



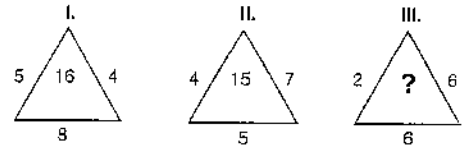
- A) 4 B) 5 C) 6 D) 7 E) 8

11.



- A) 5 B) 6 C) 10 D) 11 E) 15

12.



- A) 10 B) 11 C) 12 D) 13 E) 14

Yanıtlar / Answers

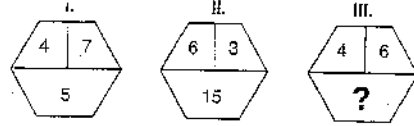
1. B	2. D	3. B	4. C	5. B	6. C
7. A	8. D	9. E	10. B	11. E	12. D

1.

	3	4	1	8	
5	16	20	?	9	
	2	7	8	3	

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

4.



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

2.

7	9	11	13	?
3	9	27	81	?

- A)

15
100

 B)

17
144

 C)

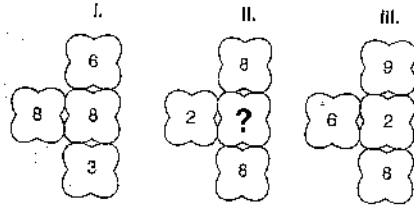
243
15
- D)

15
223

 E)

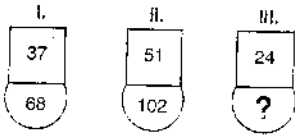
15
243

5.



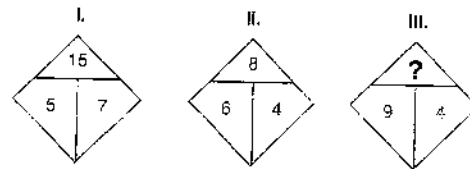
- A) 5 B) 6 C) 7 D) 8 E) 9

3.



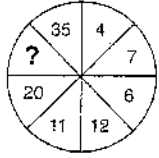
- A) 42 B) 43 C) 44 D) 45 E) 46

6.



- A) 12 B) 15 C) 18 D) 21 E) 24

7. I. II. III.
- | | | |
|----------------|----------------|---------------|
| 42
97
71 | 68
72
32 | 82
71
? |
|----------------|----------------|---------------|
- A) 22 B) 23 C) 24 D) 25 E) 26

- 10.
- 
- A) 15 B) 16 C) 17 D) 18 E) 19

8. I. II. III.
- | | | |
|------------|------------|------------|
| 7 8
5 6 | 9 4
3 6 | 8 3
? 4 |
|------------|------------|------------|
- A) 1 B) 2 C) 3 D) 4 E) 5

11. I. II. III.
- | | | |
|-----|-----|-----|
| 1 6 | 2 5 | 3 6 |
|-----|-----|-----|
- IV. V. VI.
- | | | |
|-----|-----|-----|
| 4 9 | 6 4 | 8 ? |
|-----|-----|-----|
- A) 1 B) 3 C) 5 D) 7 E) 9

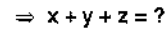
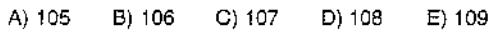
9. I. II. III.
- | | | |
|------------|------------|----------|
| 18
40 2 | 11
36 7 | 5
? 8 |
|------------|------------|----------|
- A) 18 B) 20 C) 22 D) 24 E) 26

12. I. II.
- | | |
|-----|-----|
| 1 1 | 1 2 |
|-----|-----|
- III. IV.
- | | |
|-----|-----|
| 2 2 | 3 4 |
|-----|-----|
- V. VI.
- | | |
|-----|------|
| 5 8 | 8 32 |
|-----|------|
- VII.
- | |
|-----|
| ? ? |
|-----|
- A) 13, 232 B) 12,288 C) 13,256
D) 12,264 E) 14,268

Yanıtlar / Answers

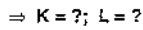
1. B	2. E	3. D	4. B	5. C	6. C
7. B	8. B	9. E	10. C	11. A	12. C

3.

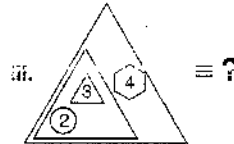


- A) 20 B) 24 C) 28 D) 32 E) 36

4.

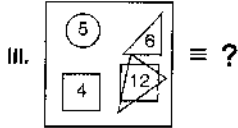
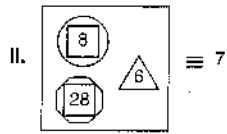
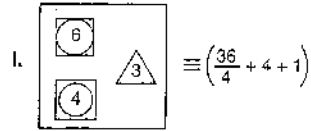


A) 1 3
B) $\sqrt{2}$ 4
C) $2\sqrt{2}$ 4
D) $\sqrt{2}$ 5
E) $2\sqrt{2}$ 5



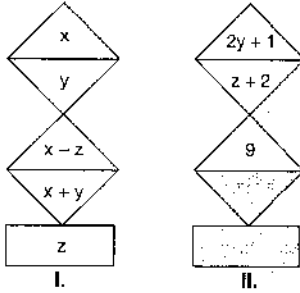
- A) 228 B) 229 C) 231 D) 232 E) 236

5.



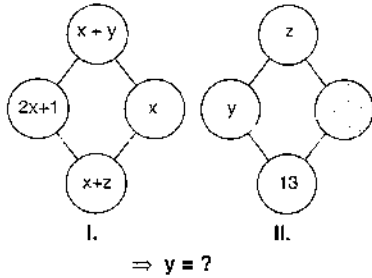
- A) 36 B) 33 C) 29 D) 25 E) 16

6.



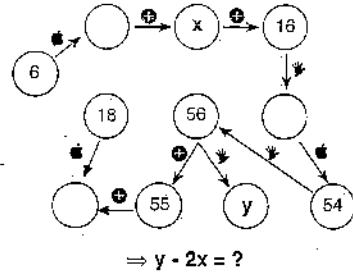
- A) 14 B) 13 C) 8 D) 6 E) 4

7.



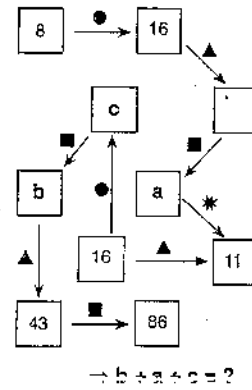
- A) 3 B) 6 C) 7 D) 10 E) 13

8.



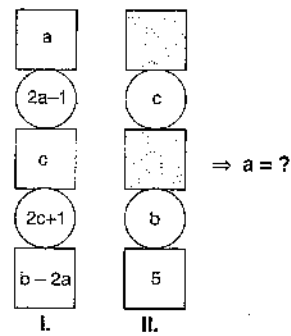
- A) 22 B) 23 C) 24 D) 25 E) 26

9.



- A) 86 B) 88 C) 90 D) 92 E) 94

10.



- A) 1 B) 3 C) 5 D) 7 E) 11

Yanıtlar / Answers

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

1.

+	a	b	c
a		7-c	
b			
c			a

$$\Rightarrow a + c = ?$$

- A) 10 B) 15 C) 20 D) 25 E) 30

4.

+	a	b	c
a			5-b
b		c	

$$\Rightarrow a + b + c = ?$$

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

2.

+	a	b	c
a			
b		c	

$$\Rightarrow a + b = ?$$

- A) 40 B) 42 C) 44 D) 46 E) 48

5.

+	a	b	c
a			
b		c	
c			a+b

$$\Rightarrow c \cdot a = ?$$

- A) 24 B) 30 C) 42 D) 54 E) 64

3.

+	a	b	c
a			b/2
b			8-a

$$\Rightarrow c = ?$$

- A) 6 B) 8 C) 12 D) 18 E) 36

6.

+	a	b	c
a			
b			
c		a	

$$\Rightarrow K - L = ?$$

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

7.

+	a	b	c
a	b^5		
b		c	

$$\Rightarrow c = ?$$

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

8.

+	a	b	c
a			b
b			
c		$2 \cdot a$	

$$\Rightarrow a + b + c = ?$$

- A) 4 B) 6 C) 12 D) 18 E) 24

9.

+	a	b	c
a			10
b			

$$\Rightarrow b = ?$$

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

10.

$\sqrt{a}$	a	b	c
a		4	
b			3
c	$\sqrt{11}$		

$$\Rightarrow e^2 = ?$$

- A) 14 B) 18 C) 45 D) 54 E) 63

11.

+	a	b	c
a			
b		a	
c			b

$$\Rightarrow a + c = ?$$

- A) 18 B) 24 C) 30 D) 32 E) 36

12.

x	a	b	c
a			
b	$8 \cdot c$		$2 \cdot a$
c			

$$\Rightarrow c = ?$$

- A) 12 B) 20 C) 24 D) 28 E) 32

Yanıtlar / Answers

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

1.

+	a	b	c
a			2b
b	c		
c			

$$\Rightarrow 2(a+b-c) = ?$$

- A) 0 B) 2 C) 4 D) 6 E) 8

4.

▲	a	b	c
a			7
b			
c		13	

$$\Rightarrow c \blacktriangle (a+b) + 4 = ?$$

- A) 24 B) 36 C) 54 D) 72 E) 81

2.

x	a	b	c
a			
b			7
c			

$$\Rightarrow a = ?$$

- A) 1 B) 4 C) 7 D) 11 E) 15

5.

x	⊗	⊠	⊙
4			32
7	28	42	B
12	C	A	

$$\Rightarrow A = ?, B = ?, C = ?$$

	A	B	C
A)	52	56	48
B)	72	72	52
C)	60	63	48
D)	72	49	63
E)	72	56	48

3.

x	a	b	c
a			
b			28
c	14		

$$\Rightarrow a > 6 \quad a+b-c = ?$$

- A) 1 B) 5 C) 9 D) 14 E) 19

6.

x	a	b	c
a			39
b			78

$$\Rightarrow a+b=9$$

$$c = ?$$

- A) 3 B) 6 C) 9 D) 11 E) 13

7.

+	A	B	C
A	B		
B		C	
C			?

- A) 2 B) 8 C) $2A+4$ D) $4A$ E) $8A$

10.

x	a	b	c
a	9		
b		16	
c			

+	a	b	c
1	b	c	
2	c		

$$\Rightarrow \frac{a+b+c}{3} = ?$$

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

8.

x	a	b	c
a		14	
b			84
c	24		

$$\Rightarrow a+b+c = ?$$

- A) 9 B) 14 C) 19 D) 21 E) 23

11.

x	a	b	c
a		12	
b			6
c	18		

$$\Rightarrow a+b+c = ?$$

- A) 11 B) 17 C) 18 D) 20 E) 22

9.

+	▲	■
▲	20	30
■		

x	▲	■
◆	$(4x\blacksquare)$	
⬠		$(6x\blacktriangle)$

$$\Rightarrow \blacksquare + \blacktriangle = ?$$

- A) 4 B) 6 C) 8 D) 11 E) 12

12.

⊕	A	B	C
A		14	
B			10
C	16		

$$\Rightarrow A \oplus (B+C) = ?$$

- A) 22 B) 23 C) 24 D) 25 E) 30

Yanıtlar / Answers

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

1.

-	a	b	c
a		24	
b			21
c	43		

$$\Rightarrow c = ?$$

- A) 9 B) 10 C) 13 D) 16 E) 20

2.

+	a	b	c
a			24
b	2 · c	12	
c			

$$\Rightarrow 2c - a = ?$$

- A) 6 B) 10 C) 15 D) 18 E) 21

3.

x	a	b	c
K	1		c
L	5	b ²	12
M	10		

$$\Rightarrow \frac{a+b+c}{K+L+M} = ?$$

- A) $\frac{7}{19}$ B) $\frac{7}{18}$ C) $\frac{9}{18}$ D) $\frac{10}{17}$ E) $\frac{9}{17}$

4.

+	a	b	c
a	Δ	1	2
b			

x	a	b	c
a	Δ		
b			c

$$0 \leq a, b, c \Rightarrow a+b+c = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

5.

	□	◇	○
1	5	K	7
2	L	10	12
3	1	2	M

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

	K	L	M
A)	6	8	4
B)	4	8	3
C)	6	7	4
D)	4	8	4
E)	6	8	3

6.

+	a+1	b+2	c+3
a	c+1		
b		4b	
c	d		19

$$\Rightarrow \frac{a+b+c}{d} = ?$$

- A) 1 B) 3 C) 4 D) 6 E) 8

7.

11	K	15	17
20	23	L	29
33	37	41	M
50	N	60	65

$$\Rightarrow K = ?, L = ?, M = ?, N = ?$$

	K	L	M	N
A)	13	26	45	50
B)	13	27	45	55
C)	12	26	44	50
D)	13	26	45	55
E)	13	24	43	63

8.

	+	+	+
3	a	6	9
5	b	10	
7	7		c

$$\Rightarrow a + b + c = ?$$

- A) 5 B) 9 C) 13 D) 19 E) 29

9.

1	2	3	4	5
7	K	11	13	15
19	21	L	27	30
M	38	42	N	50
55	P	65	70	75
61	67	R	79	85

$$\Rightarrow K + L + N + P - R - M = ?$$

- A) 29 B) 30 C) 31 D) 32 E) 33

10.

9	14	7
2	13	?
19	3	8

- A) 13 B) 15 C) 16 D) 17 E) 19

11.

	a	b	c
2		16	
3	21		
4			38
5		40	
6	42		54

$$\Rightarrow \frac{a+b+c}{3} = ?$$

- A) 4 B) 6 C) 7 D) 8 E) 12

12.

x	A	B	C
A		18	
B			
C	48		

+	A	B	C
A		3-B	
B			
C			

$$\Rightarrow A + B - C = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

Yanıtlar / Answers

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

1.

+	a	b	c
a		40	
b			34
c	22		

$$\Rightarrow \frac{a+b}{c} = ?$$

- A) 5 B) 9 C) 13 D) 16 E) 20

4.

÷	a	b	c
a		12	
b			

x	a	b	c
a			15
b			21

$$\Rightarrow a+c-b = ?$$

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

2.

+	a	b	c
a		2c	
b			
c	b-2		20

$$\Rightarrow b = ?$$

- A) 12 B) 14 C) 16 D) 18 E) 20

5.

+	a	b	c	d
a		d	c	
b			d	
c				14

$$\Rightarrow a+b+c-d = ?$$

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

3.

x	a	b	c
a		63	
b			27
c	21		

$$\Rightarrow a+b+c = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

6.

+	a	b	c	d
a		18		
b				
c				4
d				

$$\Rightarrow a \cdot c + b \cdot d + b \cdot c + a \cdot d = ?$$

- A) 48 B) 56 C) 64 D) 72 E) 84

7.

+	a	b	c
a		c+5	
b			a+1
c	b+19		

$$\Rightarrow a+b-c=?$$

- A) 3 B) 5 C) 7 D) 9 E) 11

8.

+	a	b	c
a	b^2		
b			
c	6b		a-b

$$\Rightarrow a+b=?$$

- A) 12 B) 18 C) 24 D) 28 E) 32

9.

+	a	c	d	b
c			6	7
b				
a				8
d	7			

$$\Rightarrow \frac{a+b+c+d}{2}=?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

10.

x	a	b	c
a		2-c	
b			
c		8a	

+	d	a
b	9	
c		12

$$\Rightarrow d=?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

11.

+	a	b	c
a	c	m	k
b	m	e	n
c	k	n	b

x	a	b	c
a	c	e	b
b	e	f	h
c	b	h	e

$$(a \neq 0)$$

$$\Rightarrow h+k+m+n+f=?$$

- A) 120 B) 122 C) 124 D) 126 E) 128

12.

x	a	b	c
d	12	20	8
e	21	35	14
f	18	30	12

$$\Rightarrow f-e+d-a+b-c=?$$

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

Yanıtlar / Answers

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

1.

▲	4	8	12
2	8	12	16
3	13	?	21
5	29	33	37

- A) 16 B) 17 C) 18 D) 19 E) 20

2.

▲	9	17	13
3	36	K	40
4	73	81	L

●	5	12	19
8	69	76	N
6	M	48	55

$$\Rightarrow (M + N) - (K + L) = ?$$

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

3.

	□	♥	♣
6	K	15	12
11	32	L	17
17	50	37	M

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

- A) 63 B) 64 C) 65 D) 66 E) 67

4.

	4	7	9
♠	6	K	71
♥	L	23	29
♣	14	26	M

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

- A) 84 B) 85 C) 86 D) 87 E) 88

5.

x	3a	2b	c
a			21
2b			
3c	9b		

$$\Rightarrow b_1 = ?$$

- A) 15 B) 17 C) 19 D) 21 E) 23

6.

x	a ²	b
a	c ²	c
b ²		c
c		a ²

$$\Rightarrow a + b + c = ?$$

- A) 27 B) 23 C) 17 D) 14 E) 11

7.

+	b	2b	3b
a		17	
2a			28
3a			

$$\Rightarrow a \cdot b = ?$$

- A) 24 B) 30 C) 32 D) 36 E) 40

8.

x	a	b	c
a	k	2k	3-k
b			
c		96	

$$\Rightarrow a+b+c = ?$$

- A) 18 B) 24 C) 30 D) 36 E) 42

9.

+	2a	3b	4c
a			36
b	19		
c		16	

$$\Rightarrow a+b+c = ?$$

- A) 16 B) 18 C) 9 D) 21 E) 23

10.

+	c	b	a
a	k		
b	16	2-k	11
c			

$$\Rightarrow a+b+c = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

11.

x	c	a	b
a	156		
b		168	
c			182

$$\Rightarrow a+b+c = ?$$

- A) 33 B) 35 C) 36 D) 37 E) 39

12.

x	b	c
a	18	b+9
c	30	?

- A) 9 B) 16 C) 25 D) 36 E) 49

Yanıtlar / Answers

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

1.

+	a	b	c
a	b	c	d
b	c	e	f
c	d	f	h

x	a	b	c
a	a	b	c
b	b	d	h
c	c	h	j

$$\Rightarrow b^2 + \frac{a+b+c}{2c} = ?$$

- A) $2a$ B) $b - 2a$ C) $c - a$
 D) $2c - 2b$ E) $1+d$

4.

*	1	2	3	4
1	1	K		
2		4	L	16
3			N	
4		16		M

$$\Rightarrow K = ?$$

$$\Rightarrow L = ?$$

$$\Rightarrow M = ?$$

$$\Rightarrow N = ?$$

	K	L	N	M
A)	1	8	9	256
B)	2	8	18	243
C)	2	16	9	243
D)	1	4	9	256
E)	1	8	27	256

2.

+	a	b	c
a		$c+3$	
b			$2a+2$
c	$3b+3$		

$$\Rightarrow b = ?$$

- A) 2 B) 5 C) 8 D) 11 E) 16

5.

x	a	b	c
a	b	$\frac{c}{2}$	
b		c	
c			

$$\Rightarrow a + b + c = ?$$

- A) 19 B) 20 C) 21 D) 22 E) 23

3.

	▲	□	●
4	11	L	8
8	K	18	24
11	32	24	M

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

- A) 65 B) 66 C) 67 D) 68 E) 69

6.

+	a	b	c
d	13	14	15
e	14	15	16
f	15	16	17

$$\Rightarrow \frac{(a+b+c+d+e+f) - 30}{15} = ?$$

- A) 1 B) 3 C) 5 D) 10 E) 15

7.

	a	b	c	d
1	9	11	K	15
2	8	L	12	M
3	N	9	P	13
4	6	R	10	12

$$\Rightarrow (K + L + M) - (N + P + R) = ?$$

- A) 9 B) 11 C) 13 D) 14 E) 16

8.

x	a	b	c
a	b		
b		a ⁴	4c
c		6b	

$$\Rightarrow \frac{a+b}{c} = ?$$

- A) 1 B) 2 C) 4 D) 8 E) 10

9.

		4	5	6
▲	1	K	6	7
■	2	18	L	
●	3		128	M

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

	K	L	M
A)	4	28	218
B)	4	27	218
C)	5	27	219
D)	5	28	219
E)	6	27	217

10.

+	a	b
c	4	
d		

x	a	b
c	4	
d		32

$$\Rightarrow d + a = 10$$

$$a + b + c + d = ?$$

- A) 12 B) 16 C) 18 D) 20 E) 24

11.

7	4	6	5	8
3	9	8	5	5
12	2	1	14	1
6	11	3	4	6
2	4	12	2	?

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

12.

2	7	22	67
3		31	
4	13	A	121

2	5	14	
3		23	68
4	B		

$$\Rightarrow A + B = ?$$

- A) 49 B) 50 C) 51 D) 52 E) 53

Yanıtlar / Answers

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

1.

14	28	10	?
11	15	12	17
25	13	22	16

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

4.

7	5	7	12
9	3	3	18
?	4	5	15

- A) 8 B) 9 C) 10 D) 12 E) 13

2.

7	1	2	4
5	4	3	3
11	3	?	7

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

5.

9	3	12
8	5	6
7	2	?

- A) 9 B) 10 C) 5 D) 14 E) 18

3.

10	6	5	12
8	8	16	4
13	9	?	3

- A) 24 B) 27 C) 31 D) 39 E) 42

6.

5	4	6	3
12	3	7	8
7	11	9	?

- A) 3 B) 7 C) 9 D) 11 E) 13

7.

1	2	5
2	3	13
3	1	?

- A) 3 B) 6 C) 9 D) 10 E) 14

8.

7	3	14
8	2	16
9	6	?

- A) 9 B) 12 C) 14 D) 15 E) 18

9.

6	3	5	10
8	2	3	12
4	4	7	?

- A) 1 B) 3 C) 5 D) 7 E) 9

10.

3	6	9
2	2	4
1	?	1

- A) 0 B) 1 C) 2 D) 4 E) 5

11.

2	6	10
3	24	30
4	A	B

B - A = ?

- A) 3 B) 5 C) 8 D) 10 E) 12

12.

8	3	4	6
5	4	10	2
9	2	8	?

- A) 2 B) 3 C) 5 D) 6 E) 7

Yanıtlar / Answers

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

1.

+	3	7	5	9
4	6	10	8	12
6	8	12	10	14
8	10	14	12	16
5	?	?	?	13

- A) 7,9,11 B) 9,7,16 C) 7,18,16
D) 11,9,16 E) 7,11,9

4.

⊕	3	4	5	2
1	10	17	A	5
6	B	22	31	10
7	16	C	32	11
9	18	25	34	13

$$\Rightarrow A+B+C=?$$

- A) 56 B) 62 C) 64 D) 78 E) 94

2.

	3	8	6	5
2	—	10	8	—
7	10	—	—	12
6	—	14	12	—
4	?	?	?	—

- A) 7, 12, 10 B) —, 11, — C) —, 12, 10
D) 7, 9, 11 E) —, —, 10

5.

$\sqrt{x}$	A	B	C
A	2		$3\sqrt{2}$
B	$2\sqrt{2}$		
C			

$$\Rightarrow A+B+C=?$$

- A) 9 B) 10 C) 13 D) 15 E) 17

3.

+	a	d	c
a		14	13
b			11

x	a	b	c
a			d
c	e		
c		g	

$$\Rightarrow d+f+g=?$$

- A) 94 B) 102 C) 118 D) 124 E) 136

6.

$\sqrt{7}$	A	B	C
A		$2\sqrt{3}$	
B			4
C	$\sqrt{14}$		

$$\Rightarrow A \cdot B \cdot C=?$$

- A) 185 B) 245 C) 296 D) 315 E) 385

7.

+	a	b	c
a		c+8	
			a-2
c	b+6		

$\Rightarrow a \cdot b \cdot c = ?$

- A) 24 B) 28 C) 32 D) 36 E) 42

8.

13	30	15	32	C	35
23	A	26	43	29	46
17	34	19	36	22	39
25	42	28	B	31	48
22	39	24	41	27	44
27	44	30	47	33	50

$\Rightarrow A + B + C = ?$

- A) 98 B) 103 C) 107 D) 109 E) 112

9.

+	a	b	c	d
a		10		
b			12	
c				15
d	x			

$x = ?$

- A) 11 B) 13 C) 15 D) 17 E) 19

10.

x	a	b	c	d
a		8		
b			12	
c				15
d	k			

$\Rightarrow k = ?$

- A) 3 B) 5 C) 8 D) 10 E) 18

11.

				
I	1	2	4	x
II	3	4	4	y
III	3	5	6	z

$\Rightarrow (x, y, z) = ?$

- A) (3, 4, 6) B) (3, 5, 7) C) (2, 6, 5)
D) (3, 7, 5) E) (2, 5, 7)

12.

11	14	18
15	?	24
19	24	30

- A) 12 B) 18 C) 19 D) 24 E) 17

Yanıtlar / Answers

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

1.

+	A	B	C
A			21
B	19		
C		22	

$$\Rightarrow D + E + F = ?$$

- A) 256 B) 274 C) 286 D) 318 E) 334

4.

*	☆	○	□
2	6	12	K
3	L	10	2
1	8	M	6

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

	K	L	M
A)	4	6	12
B)	8	4	16
C)	4	4	14
D)	8	6	14
E)	4	4	12

2.

⊙	3	6	8
2	7	34	A
4	B	32	60
5	4	C	59

$$\Rightarrow A + B + C = ?$$

- A) 87 B) 94 C) 98 D) 102 E) 117

5.

	x	x	x
x →	K	L	M
x →	K+1	1	3M
x →	M	2K	2
	24	24	24

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

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

3.

x	K	L	M
K		4M	
L			18
M	48		

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

- A) 12 B) 14 C) 15 D) 16 E) 17

6.

⊙	3	4	6
6	18	A	24
7	B	22	26
8	22	24	C

$$\Rightarrow A + B + C = ?$$

- A) 58 B) 62 C) 66 D) 68 E) 74

7.

12	6	2	9
13	9	1	22
6	8	2	7
3	9	4	?

- A) 3 B) 7 C) 9 D) 11 E) 14

8.

+	K	L	M
K	M	2M	
L			30
M			

$\Rightarrow K = ?$

- A) 3 B) 6 C) 12 D) 18 E) 24

9.

+	K	L	M
K		22	
L			17
M			

 $\Rightarrow M = ?$

- A) 6 B) 8 C) 0 D) 12 E) 14

10.

3	8	24	10
4	11	61	17
5	A	B	C

 $\Rightarrow A + B + C = ?$

- A) 107 B) 115 C) 126 D) 162 E) 184

11.

*	2	4	8	15
3	6	12	24	46
5	10	●	40	75
7	14	i	▲	II

$\Rightarrow (I, II) = (?, ?)$

- A) (28, 97) B) (28, 105) C) (20, 56)
D) (56, 21) E) (20, 96)

12.

+	a	b	c
a		c+5	
b			a+21
c	b+43		

 $\Rightarrow a + b + c = ?$

- A) 67 B) 68 C) 69 D) 70 E) 71

Yanıtlar / Answers

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

1.

●	42	51	73
6	12		K
8		L	32
7	M	28	

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

- A) 68 B) 69 C) 70 D) 71 E) 72

4.

	19	27	38
▲	24	15	K
■	L	18	22
●	8	M	23

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

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

2.

	7	5	12
6	K	9	
9		L	27
8	13		M

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

- A) 45 B) 47 C) 49 D) 51 E) 53

5.

	85	32	53
K	81	x	16
L	9	1	y
M	z	1	8

$$\Rightarrow x + y + z = ?$$

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

3.

+	a	c	c
a			b+1
b	2c+2		4a-1
c			

$$\Rightarrow a = ?$$

- A) 6 B) 9 C) 12 D) 14 E) 17

6.

x	a	b	c
a			
b			a ²
c	b		a

$$\Rightarrow \frac{b}{c} = ?$$

- A) c B) c² C) b D) b² E) 1

7.

x	A	B	C	D
A	A	B	C	D
B	B	E	F	M
C	C	F	L	N
D	D	M	N	K

$$M - E = 2, F = 8, N = 12$$

$$\Rightarrow A + B + C + D = ?$$

- A) 10 B) 12 C) 14 D) 18 E) 22

8.

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

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

9.

6	14	48	8
4	14	40	10
3	A	15	5
7	13	B	6

$$\Rightarrow A + B = ?$$

- A) 42 B) 48 C) 50 D) 54 E) 60

10.

1	4	5	9	A
2	3	B	8	13
4	1	5	6	11
7	2	9	C	20
6	3	9	12	D

	A	B	C	D
A)	10	6	12	18
B)	13	5	10	21
C)	14	6	11	20
D)	12	7	9	19
E)	14	5	11	21

11.

4	6	6	3
5	9	1	2
6	20	22	7
7	17	?	4

- A) 7 B) 10 C) 11 D) 18 E) 24

12.

2	1	4	6	8
4	3	5	3	1
5	7	3	4	7
6	4	9	10	2
17	18	?	23	18

- A) 7 B) 15 C) 19 D) 21 E) 27

Yanıtlar / Answers

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

1.

☆	3	7	4	1
4	6	10	7	4
2	4	8	5	2
6	8	12	9	6
5	7	?	?	?

A) 10,7,5 B) 11,8,5 C) 11,7,6 D) 13,8,5 E) 10,8,6

2.

▲	2	5	4	6
7	-	12	-	-
3	-	8	-	-
8	10	-	12	14
1	-	?	?	?

A) 6,5,7 B) 9,3,- C) 6,-,- D) 9,-,6 E) 6,5,-

3.

Sonuç (Result)			
21	42	10	27
15	41	22	26
13	29	24	?

A) 18 B) 20 C) 22 D) 27 E) 28

4.

Sonuç (Result)				
4	3	8	6	27
2	8	4	5	24
3	2	6	9	29
4	5	7	3	?

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

5.

				Sonuç (Result)
2	7	4	8	23
3	6	10	4	26
1	8	7	5	22
3	7	4	2	19
7	1	4	3	?

A) 18 B) 20 C) 22 D) 23 E) 26

6.

	●	□	■
●	9	?	18
○	12	20	24
□	15	?	30

A) 15,12 B) 9,12 C) 15, 25 D) 25, 25 E) 12,25

7.

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

- A) 5 B) 6 C) 7 D) 8 E) 9

8.

*	4	9	2	6
7	-	16	-	-
3	-	12	-	-
2	6	-	4	8
8	12	?	?	?

- A) -10,14 B) 17,10,14 C) -,-,14
D) 17,-,12 E) -10,-

9.

5	15	11	26
4	12	8	20
6	18	?	36
3	?	11	20

- A) 12,12 B) 20,9 C) 12, 9
D) 8,9 E) 20,12

10.

64	8	12	24
16	4	8	?
4	2	9	18
49	?	3	6

- A) 3,8 B) 12,16 C) 7,12
D) 8,24 E) 7,16

11.

8	6	7	4
10	2	6	5
16	x	10	8
30	y	17	15

$$\Rightarrow x + y = ?$$

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

12.

14	5	8	2
4	6	12	7
2	9	7	5
8	11	B	6

$$\Rightarrow A + B = ?$$

- A) 11 B) 14 C) 15 D) 19 E) 21

Yanıtlar / Answers

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

1.

+	x	y	z
x		21	
y	24		

$\Rightarrow x = ?$

- A) 1 B) 3 C) 6 D) 8 E) 9

4.

x	a	b	c
a		10c	
b			32
c	20		

$\Rightarrow a + b = ?$

- A) 9 B) 12 C) 13 D) 16 E) 17

2.

x	k	l	m
k			96
l	80		30

$\Rightarrow k \cdot l \cdot m = ?$

- A) 320 B) 480 C) 540 D) 960 E) 1120

5.

+	a	b	c
a		28	
b			23
c			

x	a	b	c
a			66
b			
c			

$\Rightarrow a = ?$

- A) 6 B) 11 C) 13 D) 14 E) 22

3.

+	x	y	z
x		25	48
y		26	

$\Rightarrow z - x = ?$

- A) 17 B) 19 C) 21 D) 24 E) 26

6.

+	a	b	c
a			25
b	20	$\frac{a}{2}$	
c			

$\Rightarrow b + c = ?$

- A) 9 B) 11 C) 13 D) 14 E) 16

7.

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

- A) 2 B) 4 C) 5 D) 6 E) 8

10.

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

- A) 3,4 B) 3,5 C) 4,4 D) 6,5 E) 7,2

8.

6	4	10	8
3	7	5	9
7	8	1	2
4	6	?	5

- A) 2 B) 3 C) 5 D) 6 E) 7

11.

7	3	16	14
6	4	4	12
8	7	1	16
4	1	?	?

- A) 8,9 B) 10,8 C) 6,14 D) 9,8 E) 16,12

9.

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

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

12.

Sonuç (Result)				
6	4	3	5	9
5	7	9	3	3
6	6	8	2	20
3	9	4	5	?

- A) 6 B) 7 C) 8 D) 9 E) 10

Yanıtlar / Answers

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

1.

	2	3	5	4
9	77	72	56	65
5	21	16	0	9
8	60	?	?	?
7	45	40	24	33

- A) 48; 39; 55 B) 55; 39; 48 C) 39; 48; 55
D) 29; 48; 55 E) 45; 29; 38

4.

4	20	25
11	?	72
14	98	105

- A) 88 B) 60 C) 66 D) 40 E) 36

2.

	a	b	c	d
76	38	-	19	-
105	-	35	-	21
64	32	-	16	-
144	?	?	?	-

- A) -, 48, - B) 72, 48, 36 C) 54, 34, 26
D) -, 34, 13 E) 45, 33, 72

5.

+	a	b	c	d
a		3		
b				
c				
d			4	

$$\Rightarrow ac + bc + ad + bd = ?$$

- A) 12 B) 11 C) 10 D) 9 E) 7

3.

1	14	15	4
12	x	6	9
8	y	10	5
13	2	3	16

$$\Rightarrow x = ?; y = ?$$

- A) 11-7 B) 8-12 C) 7-11
D) 10-9 E) 6-12

6.

+	c	d
a		6
b	9	

x	c	d
a	10	
b		7

$$\Rightarrow (a \cdot b) + (c \cdot d) = ?$$

- A) 32 B) 37 C) 44 D) 48 E) 52

7.

+	a	b	c
a			b-5
b	3c-1		6a-1
c			

$$\Rightarrow a = ?$$

- A) 4 B) 7 C) 11 D) 16 E) 19

8.

+	a	b	c
a		10	
b			9
c			

x	a	b	c
a			
b			
c	56		

$$\Rightarrow a^2 - c^2 = ?$$

- A) 12 B) 15 C) 18 D) 21 E) 27

9.

+	a	b	c
a		x	
b			
x			

x	a	b	x
a		y	
b			
x			7y

$$\Rightarrow a^2 + b^2 = 85 \quad y = ?$$

- A) 9 B) 11 C) 13 D) 15 E) 17

10.

	15	20	50	19
2	△	□	□	△
3	□	△	△	△
10	I	□	□	△
5	□	II	III	△

- A) △□□ B) □△○ C) □□△
D) △□△ E) △△△

11.

+	a	b	c
a	c	32	
b		2c	
c			

$$\Rightarrow b - c + a = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

12.

	□	△	◇	◇	◇
□		0		6	12
△				?	
◇				10	?
◇					12

- A) 6; 2 B) 8; 6 C) 16; 8
D) 18; 0 E) 6; 15

Yanıtlar / Answers

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

1.

	4	6	10
2			
3			
5			?

- A) 2 B) 3 C) 15 D) 30 E) 50

2.

			4
	6	7	
			b
	14	a	
			20

$\Rightarrow a + b = ?$

- A) 20 B) 23 C) 27 D) 30 E) 32

3.

	30			39	
					b
		a			
	15		21		

$\Rightarrow a + b = ?$

- A) 58 B) 60 C) 70 D) 78 E) 81

4.

	3	6	8
12			—
3		—	—
8	—	—	

$\Rightarrow \text{diagonal lines}, \text{triangle}, \text{diagonal lines} = ?, ?, ?$

- A) 2,1,3 B) 2,0,4 C) 3,1,2 D) 4,2,0 E) 4,1,2

5.

	2	3	5
7			
8			
9			

$\Rightarrow \text{triangle}, \text{star}, \text{circle} = ?$

- A) 2,3,4 B) 3,2,5 C) 7,3,2 D) 3,2,4 E) 7,2,3

6.

	3	4	5
8	22		
10	A	28	
12		C	
16	38		B

$\Rightarrow A + B + C = ?$

- A) 97 B) 98 C) 99 D) 100 E) 101