

ÖNSÖZ

Sevgili YÖS Adayları,

Bu kitap sizler için hazırlanmış etkili bir yol haritasıdır. YÖS, Temel Öğrenme Becerileri ve Türkçe olmak üzere iki ayrı testten oluşur. 80 soruluk Temel Öğrenme Becerileri Testi'ndeki 45 sorunun IQ sorularından oluştuğu dikkate alındığında bu soruların büyük bir bölümünü doğru cevaplamanız sınavda yüksek puan almanızda belirleyici olacaktır. Uzun ve kapsamlı bir çalışmanın ürünü olan YÖS IQ Soru Bankası sınava hazırlık sürecinde sizlere eşlik edecek özgün sorulardan oluşturulmuştur.

Kitabın hazırlanmasında emeğini ve desteğini eksik etmeyen meslektaşlarım, dostlarım ve aileme katkılarından dolayı teşekkür ederim.

Yolunuz açık, başarınız bol olsun!...

Selda KAŞIKÇI

PREFACE

Dear FSE (YÖS) Candidates,

This book is an effective road map which is prepared for you. YÖS consists of two different parts as follows: Basic Learning Skills and Turkish Language Proficiency Test. Considering that 45 questions of the Basic Learning Skills Test, which are composed of 80 questions in total, are related to IQ issues, answering majority of the questions as correct will directly in receiving high score in YÖS. FSE IQ Soru Bankası that is a product of a long and comprehensive work, consist of inventive questions that will help you throughout your preparation process...

Thanks to my friends, colleagues who provides full support and has a hand in preparing this book and to my family for their contribution.

May your route be clear and success be planted!...

Selda KAŞIKÇI

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BÖLÜM 1

CHAPTER 1

ŞİFRELER

(PASSWORDS)

BÖLÜM
CHAPTER 1

ŞİFRELER
(PASSWORDS)

TEST-01

1. $\left. \begin{array}{l} \text{KAP} \\ \text{KAZ} \\ \text{KAL} \\ \text{KAŞ} \\ \text{PAK} \end{array} \right\} \text{PAK} = ?$
A) 013 B) 015 C) 012 D) 210 E) 014

4. $\left. \begin{array}{l} \text{KAP} \\ \text{PAS} \\ \text{SAL} \\ \text{LAM} \\ \text{MAL} \end{array} \right\} \text{KAP} = ?$
A) 325 B) 826 C) 628 D) 526 E) 423

2. $\left. \begin{array}{l} \text{BİR} \\ \text{BİN} \\ \text{BEŞ} \\ \text{BEN} \\ \text{RAK} \end{array} \right\} \text{BEŞ} = ?$
A) 498 B) 456 C) 496 D) 457 E) 732

5. $\left. \begin{array}{l} \text{ÇİL} \\ \text{ÇİĞ} \\ \text{ÇAĞ} \\ \text{DAĞ} \\ \text{LAG} \end{array} \right\} \text{DAĞ} = ?$
A) 156 B) 256 C) 756 D) 146 E) 142

3. $\left. \begin{array}{l} \text{CEV} \\ \text{CEP} \\ \text{ÇAP} \\ \text{ÇAT} \\ \text{VIN} \end{array} \right\} \text{ÇAT} = ?$
A) 234 B) 235 C) 679 D) 675 E) 918

6. $\left. \begin{array}{l} \text{DÜK} \\ \text{DÜM} \\ \text{MÜD} \\ \text{MÜZ} \\ \text{ZÜD} \end{array} \right\} \text{MÜD} = ?$
A) 980 B) 189 C) 981 D) 186 E) 689

7. $\left. \begin{array}{l} \text{GÜP} \\ \text{GÜR} \\ \text{HÜP} \\ \text{HÜF} \\ \text{PÜF} \end{array} \right\} \text{GÜR} = ?$

A) 625 B) 527 C) 025 D) 023 E) 627

10. $\left. \begin{array}{l} \text{KAÇ} \\ \text{KOL} \\ \text{KOZ} \\ \text{KOP} \\ \text{POZ} \end{array} \right\} \text{KOL} = ?$

A) 234 B) 236 C) 237 D) 215 E) 734

8. $\left. \begin{array}{l} \text{ISI} \\ \text{IHI} \\ \text{AHA} \\ \text{ASA} \\ \text{SAH} \end{array} \right\} \text{AHA} = ?$

A) 131 B) 424 C) 434 D) 121 E) 243

11. $\left. \begin{array}{l} \text{SAF} \\ \text{FAS} \\ \text{SUR} \\ \text{RUS} \\ \text{PAS} \end{array} \right\} \text{SUR} = ?$

A) 234 B) 652 C) 432 D) 732 E) 256

9. $\left. \begin{array}{l} \text{LAK} \\ \text{LAL} \\ \text{MAK} \\ \text{MAM} \\ \text{SOL} \end{array} \right\} \text{MAK} = ?$

A) 636 B) 635 C) 131 D) 135 E) 701

12. $\left. \begin{array}{l} \text{ZUM} \\ \text{ZAM} \\ \text{ZOR} \\ \text{ZAR} \\ \text{LOR} \end{array} \right\} \text{ZUM} = ?$

A) 869 B) 859 C) 874 D) 374 E) 854

D	A	A	E	C	B	D	C	B	B	E	A
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1. $\left. \begin{array}{l} \text{GÜL} \\ \text{LAM} \\ \text{MEZ} \\ \text{ZİT} \\ \text{TOK} \end{array} \right\} \text{MEZ} = ?$

- A) ●○— B) +×◆ C) ▲▲★
D) —■▲ E) ★□+

2. $\left. \begin{array}{l} \text{BAZ} \\ \text{TOZ} \\ \text{KAZ} \\ \text{BEZ} \\ \text{YOZ} \end{array} \right\} \text{KAZ} = ?$

- A) ▲★■ B) ←★■ C) →+■
D) ↑●■ E) →●■

3. $\left. \begin{array}{l} \bullet \square \triangle \\ \square \bullet \circ \\ \circ \bullet \square \\ \triangle \bullet \square \\ \blacksquare \square \circ \end{array} \right\} \circ \bullet \square = ?$

- A) ELF B) LİF C) İLK D) FİL E) KEL

4. $\left. \begin{array}{l} \circ \square \triangle \\ \oplus \square \triangle \\ \oplus \square \triangle \\ \circ \heartsuit \triangle \\ \triangle \square \triangle \end{array} \right\} \oplus \square \triangle = ?$

- A) 184 B) 234 C) 764 D) 564 E) 134

5. $\left. \begin{array}{l} 793 \\ 975 \\ 579 \\ 319 \\ 195 \end{array} \right\} 579 = ?$

- A) —×+ B) ★○+ C) ○+—
D) +×— E) ×+★

6. $\left. \begin{array}{l} - \blacksquare \triangle \\ \star \square + \\ \triangle \triangle \star \\ + \times \diamond \\ \bullet \circ - \end{array} \right\} \star \square + = ?$

- A) 158 B) 90* C) 374 D) 823 E) 469

7. $\left. \begin{array}{l} \text{LAL} \\ \text{KEK} \\ \text{POP} \\ \text{EHE} \\ \text{ALA} \end{array} \right\} \text{EHE} = ?$
- A) $\times \bullet \times$ B) $\triangle - \triangle$ C) $\bullet \times \bullet$
 D) $\blacksquare + \blacksquare$ E) $+ \star +$

8. $\left. \begin{array}{l} 184 \\ 234 \\ 764 \\ 564 \\ 134 \end{array} \right\} 234 = ?$
- A) 546 B) 976 C) 876 D) 926 E) 346

9. $\left. \begin{array}{l} \bullet + \times \\ \blacksquare + \triangle \\ \blacksquare \times - \\ - \triangle \times \\ + \times \bullet \end{array} \right\} - \triangle \times = ?$
- A) 784 B) 765 C) 546 D) 869 E) 986

10. $\left. \begin{array}{l} 242 \\ 464 \\ 626 \\ 848 \end{array} \right\} \begin{array}{l} \square \triangle \square \\ \triangle \bullet \triangle \\ \bullet \square \bullet \\ \star \square \star \end{array}$
- 2468 = ?

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

11. $\left. \begin{array}{l} \text{HAZ} \\ \text{ZOR} \\ \text{RET} \\ \text{TİF} \\ \text{FUL} \end{array} \right\} \begin{array}{l} \triangle \circ \blacksquare \\ \star + \times \\ \bullet \square \triangle \\ \times - \nabla \\ \blacksquare \triangle \star \end{array}$

ZEHİR = ?

- A) $\triangle \triangle \bullet + \blacksquare$ B) $\triangle \triangle \bullet + \square$
 C) $\triangle \triangle \bullet \times \blacksquare$ D) $\triangle \triangle \bullet + \blacksquare$
 E) $\triangle \triangle \bullet \times \blacksquare$

12. $\left. \begin{array}{l} \triangle - \blacksquare \\ \circ \star \times \\ \blacksquare \square \circ \\ \triangle - \times \\ \times + \bullet \end{array} \right\} \begin{array}{l} \text{HAS} \\ \text{LİF} \\ \text{FES} \\ \text{KAL} \\ \text{SUR} \end{array}$

KAFES = ?

- A) $\triangle - \circ \star \bullet$ B) $\triangle - \circ \square \bullet$
 C) $\triangle - \triangle - \times$ D) $\triangle - \circ \star \times$
 E) $\triangle - \circ \star \blacksquare$

C	D	D	B	A	E	E	C	C	B	A	D
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1. HECE }
BERE }
DERE } DERE = ?
GECE }
GEBE }

A) 0121 B) 6131 C) 5141 D) 6121 E) 3141

2. SAAT }
VAAT } SAAT = ?
TAAF }
FAAL }
LAAV }

A) 6887 B) 9887 C) 5884 D) 7885 E) 4886

3. YUVA }
FAVA } YUVA = ?
TAVA }
KAYA }
MAYA }

A) 7303 B) 0123 C) 5323 D) 4323 E) 6303

4. AKIL }
RAKI } RAKI = ?
ATKI }
ÇATI }
TAKI }

A) 2876 B) 1876 C) 8176 D) 3816 E) 8760

5. KOZA }
ZOKA } BOZA = ?
OKKA }
BOZA }
OBBA }

A) 1443 B) 4123 C) 2103 D) 0123 E) 1003

6. DEDE }
BABA } DEDE = ?
EDER }
ABAT }
TİTİ }

A) 4545 B) 2323 C) 3234 D) 1016 E) 0101

7. HARP }
ZARP }
KART } HARP = ?
PART }
KAZA }

A) 0123 B) 5126 C) 3126 D) 5171 E) 7123

8. DUPU }
DURU }
SULU } SULU = ?
DULU }
PURU }

A) 0131 B) 5121 C) 0121 D) 0151 E) 4131

9. EKİM }
EKİN }
KİME } KİME = ?
MİNE }
EMİR }

A) 0123 B) 3260 C) 1230 D) 0126 E) 0324

10. 9878 }
6858 }
4858 } 4858 = ?
3878 }
3868 }

A) ●+▲+ B) □+○+ C) ★+○+
D) △+▲+ E) △+★+

11. AYSU }
SULU }
AYIK } SUCU = ?
SUCU }
USLU }

A) ●□×■ B) ▲★△★ C) ▲★+★
D) ★▲+▲ E) ●□▲★

12. ARDA }
DERİ }
RINT } NAİL = ?
NAIL }
LUTR }

A) ▲○■△ B) ■△★+ C) ×-+■
D) ★●△× E) ●■▲●

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

1. $\left. \begin{array}{l} 5346 \\ 3256 \\ 2415 \\ 4235 \\ 1425 \end{array} \right\} 1425 = ?$

- A) $\times \blacksquare + \star$ B) $\blacksquare + \circ \star$ C) $\star \circ \blacksquare \Delta$
D) $\circ + \star \Delta$ E) $+ \blacksquare \times \star$

2. $\left. \begin{array}{l} 0246 \\ 4206 \\ 8602 \\ 9642 \\ 6928 \end{array} \right\} 0246 = ?$

- A) $+ \blacktriangle \blacksquare \star$ B) $\blacktriangle \times \star +$ C) $\circ \star \blacksquare \blacktriangle$
D) $\blacksquare \star \circ \blacktriangle$ E) $\times \blacktriangle \circ \star$

3. $\left. \begin{array}{l} 4157 \\ 4053 \\ 2063 \\ 6157 \\ 5167 \end{array} \right\} \begin{array}{l} \gamma\alpha\pi\theta \\ \pi\beta\epsilon\phi \\ \omega\alpha\epsilon\theta \\ \epsilon\beta\pi\phi \\ \omega\beta\epsilon\phi \end{array}$

$71506 = ?$

- A) $\phi\beta\epsilon\alpha\theta$ B) $\phi\beta\epsilon\alpha\lambda$ C) $\phi\beta\epsilon\alpha\gamma$
D) $\phi\beta\epsilon\alpha\omega$ E) $\phi\epsilon\beta\alpha\lambda$

4. $\left. \begin{array}{l} 1314 \\ 1516 \\ 1614 \\ 2326 \\ 2526 \end{array} \right\} 1314 = ?$

- A) 9594 B) 8784 C) 9496 D) 8584 E) 9796

5. $\left. \begin{array}{l} 5321 \\ 3291 \\ 5141 \\ 6371 \\ 4381 \end{array} \right\} 6371 = ?$

- A) $\longleftrightarrow \downarrow \uparrow$ B) $\rightarrow \downarrow + \uparrow$ C) $\leftarrow \uparrow - \uparrow$
D) $\times \rightarrow / \uparrow$ E) $\rightarrow - \rightarrow \uparrow$

6. $\left. \begin{array}{l} \bullet \square \star \blacktriangle \\ \bullet \square \triangle \blacktriangle \\ \bullet \blacktriangle \triangle \square \\ \square \star \blacktriangle \bullet \\ \star \blacksquare \bullet \square \end{array} \right\} \bullet \square \star \blacktriangle = ?$

- A) $\alpha\beta\epsilon\gamma$ B) $\beta\theta\gamma\alpha$ C) $\alpha\beta\theta\gamma$
D) $\alpha\gamma\epsilon\beta$ E) $\theta\phi\alpha\beta$

7. $\left. \begin{array}{l} 8975 \\ 7985 \\ 3589 \\ 1579 \\ 5193 \end{array} \right\} 8975 = ?$

- A) 8602 B) 9642 C) 0246 D) 4206 E) 6928

8. $\left. \begin{array}{l} EMEL \\ KONU \\ MEME \\ AKAN \\ LAKA \end{array} \right\} AKAN = ?$

- A) LÖDÜ B) MBLB C) NFNF
D) FNFM E) BLBP

9. $\left. \begin{array}{l} \blacksquare \blacktriangle \bullet \\ \blacksquare \blacktriangle \blacktriangle \\ \bullet \blacktriangle \bullet \\ \blacktriangle \bullet \bullet \\ \blacktriangle \bullet \blacktriangle \end{array} \right\} \blacktriangle \bullet \blacktriangle = ?$

- A) $\alpha\beta\alpha$ B) $\alpha\beta\theta\alpha$ C) $\theta\alpha\theta\alpha$
D) $\beta\theta\alpha\beta$ E) $\beta\alpha\theta\theta$

10. $\left. \begin{array}{l} \blacktriangle \bullet \square \\ \blacksquare \bullet \star \\ \star \bullet \blacktriangle \\ \nabla \bullet \star \\ \bullet \bullet \blacksquare \end{array} \right\} \bullet \bullet \bullet = ?$

- A) $\uparrow+\downarrow+$ B) $\downarrow+\rightarrow+$ C) $\leftarrow+\uparrow+$
D) $\rightarrow+\uparrow+$ E) $\rightarrow+\downarrow+$

11. $\left. \begin{array}{l} 2470 \\ 3224 \\ 5376 \\ 4635 \\ 6002 \end{array} \right\} 4635 = ?$

- A) 9034 B) 8990 C) 1832 D) 0281 E) 2449

12. $\left. \begin{array}{l} \star \circ \star \square \\ \circ \star \circ \star \\ \triangle + + \\ + - + \bullet \\ - \blacksquare \blacktriangle \end{array} \right\} + + + \bullet = ?$

- A) 8789 B) 2625 C) 6453 D) 7878 E) 9262

A	D	B	E	D	C	C	E	D	C	D	B
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1. ÖZGÜR }
ÖZLEM } MERİH = ?
MERİH }
REZİL }
ZEHİR }

A) 46185 B) 16984 C) 01234
D) 01567 E) 76489

2. KALAY }
YASAK } PATAK = ?
SAPAK }
PATAK }
YATAK }

A) 31410 B) 51610 C) 31610
D) 01213 E) 41510

3. POMAK }
KONAK } MİYOP = ?
POLİP }
MİYOP }
PİYON }

A) 41534 B) 01234 C) 07815
D) 27810 E) 01670

4. EVSİZ }
SEKİZ } SEMİZ = ?
İŞSİZ }
SEMİZ }
KERİZ }

A) ▲●△○■ B) ○★▲○■ C) ●□▲○■
D) △●-○■ E) ▲●+○■

5. SINAV }
SICAK } VAKIF = ?
VACİP }
VAKIF }
KAŞIK }

A) 90123 B) 32467 C) 52905
D) 32508 E) 90425

6. CUNDA }
AFONİ } EHRAM = ?
İKAME }
EHRAM }
MORUK }

A) ▲△+■× B) ×-▲/\ C) /+&○-
D) \=&▲/ E) ●○■□▲

7. PROJE
JETON
ONLUK
UKALA
LAMEL } ONLUK = ?

- A) □▲○■+ B) ■+×- / C) ×\=▲×
D) - / \ × E) ●▲■□▲

8. ÜÇGEN
ÜÇLÜK
KASLI
KAPUT
VÜCUT } KASLI = ?

- A) ωαξτμ B) λδψτμ C) αβθγπ
D) αβεαλ E) λδφεω

9. MÜZİK
ÇÖZÜM
ZALİM
BALIK
LÖKOZ } ÇÖZÜM = ?

- A) - / ↓ → ↑ B) ↓ × \ ← ↑ C) ÷ × \ = %
D) ↑ → ↓ ← % E) \ / % ! ↓

10. KAPAN
KEMAL
SAMAN
KALAN
SARAL } KAPAN = ?

- A) □▽▲▽○ B) △▽●▽○ C) △▽▽▽■
D) □◇●▽■ E) □▽■▽○

11. LUKÇE
ÇEKİM
İMDAT
ATLET
ETKİN } ÇEKİM = ?

- A) ▲×■△- B) ●○■□▲ C) □▲■△▼
D) +×●▲× E) △▽▽+×

12. SUNTA
SUSAM
PUNTO
PUSMA
USANÇ } PUSMA = ?

- A) 09023 B) 90217 C) 49186
D) 49032 E) 09182

E	B	D	E	D	D	B	E	A	A	C	D
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1. TEMEL } 90102
LAMEL } 40154
TATİL } 23102
LİKİT } 25459
KEMİK } 93953

KALEMLİK = ?

- A) 43209254 B) 43201254
C) 43202541 D) 43021254
E) 43201954

2. 05251 }
96862 } 45371 = ?
45371 }
06864 }
36971 }

- A) $-\square\Delta\times\blacktriangle$ B) $\bullet\blacksquare\circ\blacktriangle$ C) $\nabla\blacksquare-\times\blacktriangle$
D) $\square\Delta+\Delta\circ$ E) $\bullet\Delta+\Delta\nabla$

3. $\theta\beta\pi\tau\epsilon$ }
 $\tau\epsilon\Omega\theta\pi$ } $\psi\tau\beta\Omega\alpha = ?$
 $\alpha\psi\phi\alpha\beta$ }
 $\psi\tau\beta\Omega\alpha$ }
 $\Omega\alpha\psi\phi\tau$ }

- A) 78546 B) 56978 C) 85489
D) 62713 E) 19362

4. - 6. soruları aşağıdaki bilgilere göre cevaplayınız.

- TUHAF } 61265
HAFTA } 85439
TURTA } 45975
HAFIZ } 61854
FAZLA } 85465

4. TURTA = ?

- A) 61854 B) 85465 C) 45975
D) 61265 E) 85439

5. ZABITA = ?

- A) 956365 B) 950375 C) 950345
D) 950325 E) 950365

6. $\frac{H^2 + T^2}{A^2} = ?$

- A) F B) I C) U D) Z E) L

7. - 15. soruları aşağıdaki bilgilere göre cevaplayınız.

GAFİL	}	98765
ÇELİM		43562
MİLAT		18165
TATİL		73560
FELİK		26581

7. MİLAT = ?

- A) 26581 B) 18165 C) 98765
D) 73560 E) 43562

8. ÇELİM = ?

- A) 26581 B) 18165 C) 98765
D) 73560 E) 43562

9. FELİK = ?

- A) 26581 B) 18165 C) 98765
D) 73560 E) 43562

10. $\frac{GAFİL}{+ FELİK}$
?

- A) 171325 B) 172315 C) 172325
D) 172335 E) 172225

11. $\frac{GxA}{Ix E} = ?$

- A) F B) K C) Ç D) M E) T

12. $\frac{L^2 - Ç^2}{G} = ?$

- A) F B) İ C) G D) T E) L

13. $\sqrt{\sqrt{TİG} + \sqrt{TÇÇ}} = ?$

- A) L B) \sqrt{L} C) M D) \sqrt{M} E) \sqrt{LM}

14. $GxM + Fxİ = ?$

- A) İF B) İK C) FK D) LK E) İL

15. $\frac{GAFİL}{- FELİK}$
?

- A) MLMKL B) MLMKF C) MLKLM
D) MLMLK E) MTMKL

B	C	B	D	E	A	A	E	D	C	C	D	A	B	A
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1. GÜNLÜK }
GÖZLÜK } SÖZLÜK = ?
SÖZLÜK }
YAZLIK }
SAZLIK }

- A) 4678+2 B) 091892 C) 5678+2
D) 437892 E) 037892

4. GIRGIR }
SEKSEK } ZEYZEY = ?
ZEYZEY }
KORKOR }
YILYIL }

- A) 283283 B) 361361 C) 091091
D) 485485 E) 597597

2. ERDEM }
ERŞAN } ERTAN = ?
ERKEN }
ERTAN }
ŞEKER }

- A) 09273 B) 09573 C) 20409
D) 09108 E) 09403

5. ALTMİŞ }
YETMİŞ } YETMİŞ = ?
SEKSEN }
DOKSAN }
NOKSAN }

- A) □■○●△▲ B) ▽▽○●★▲
C) +▽×+▽- D) /×+□-
E) -\×+□-

3. KANTİN }
NAFİLE } NAFİLE = ?
ETKİLİ }
İNATLA }
AFAKAN }

- A) 806754 B) 908178 C) 419757
D) 060908 E) 780150

6. FETTAH }
HALİDE } FETTAH = ?
ECNEBİ }
İKİLEM }
MELİKE }

- A) \△▽\▽- B) +--+○×
C) ●\■\▲ D) ×\○--+
E) ▲/○-□\

7. MERKEZ
HERKES
SENTEZ
ÇERKEZ
ÇEKMEZ } ÇERKEZ = ?
- A) 608105 B) 208107 C) 201907
D) 504307 E) 908107

8. HİTABE
KİTABE
KİBELE
RAHİBE
LATİFE } RAHİBE = ?
- A) ψθαβπε B) τβγθπε C) Ωθγβφε
D) αβγθπε E) τβπεΩε

9. KIRGIN
YILGIN
BIKKIN
BASKIN
YANGIN } YANGIN = ?
- A) 012314 B) 516314 C) 710014
D) 789014 E) 584314

10. DEVET
DESET
SEPET
RESET
PUSET } RESET = ?
- A) +□-□▽ B) -\+□▽ C) /□+□▽
D) ●□▲□▽ E) ●□+□▽

11. KÖÇEK
BÖCEK
ÇÖREK
BÖREK
GÖBEK } BÖCEK = ?
- A) -\+/\↓ B) →\+/\↓ C) ↓\-\/\↓
D) !\→/\↓ E) →\←/\↓

12. NADİDE
NAFİLE
NAHİYE
NAZİRE
RAZİYE } NAFİLE = ?
- A) ★■●○□▽ B) ★■-●/\▽
C) ★■△●△▽ D) ★■+●▽▽
E) /■-●▽▽

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

1. - 9. soruları aşağıdaki bilgilere göre cevaplayınız.

$$\begin{array}{r} \text{KAVAK} \\ + \text{ATA86} \\ \hline \text{S6907} \end{array}$$

1. KAVAK = ?

- A) 12521 B) 21521 C) 12621
D) 21612 E) 12721

2. TAKAS = ?

- A) 42123 B) 12423 C) 12623
D) 42623 E) 42621

3. KASA = ?

- A) 2131 B) 1242 C) 1232
D) 1262 E) 3212

4. SAKATAT = ?

- A) 3216464 B) 2131414
C) 3242121 D) 3212424
E) 2313434

5. VASAT = ?

- A) 62425 B) 61314 C) 63432
D) 62324 E) 62124

6. KAVAK + TAKAS = ?

- A) 44744 B) 54744 C) 54745
D) 54743 E) 54844

7. K x V x T x S x A = ?

- A) 6 B) 12 C) 36 D) 48 E) 144

8. $T^A - (T + K) \times S = ?$

- A) K B) A C) S D) T E) V

9. S x V + V x K = ?

- A) KA B) KT C) TA D) AT E) AK

10. HALSİZ }
HADSİZ }
DİZSİZ } HADSİZ = ?
LİFSİZ }
FİŞSİZ }

- A) Δ○▽●○+ B) ★■□●○+
C) ▽○-●○+ D) □○+●○+
E) ★■△●○+

13. 908172 }
605472 } 605472 = ?
308172 }
308572 }
605872 }

- A) SARKOZ B) BALYOZ C) SARLOZ
D) NARKOZ E) BALROZ

11. SALKIM }
SAĞLIK } ZARFÇI = ?
ZABITA }
ZARFÇI }
MASLAK }

- A) ●\■▽▲× B) ○\●▽\×
C) -\□▲△\ D) -\▽★+▲
E) ●\▽×▲○

14. ●\■/▲▽ }
/▲▽-▲○ }
-▲○□▲+ } /▲▽-▲○ = ?
□▲+▲△▽ }
▲●▽★-▲ }

- A) TEPELİ B) VAZGEÇ C) EVİRME
D) MEKTEP E) GEÇMEK

12. ●+■-▲× }
×●+■-▲ }
▲×●+■- } ▲×●+■- = ?
-▲×●+■ }
■-▲×●+ }

- A) 765498 B) 498765
C) 549876 D) 654987
E) 987654

15. ↓→↑←--+ }
→/←←--+ }
×!↑←--+ } ↑÷|←--+ = ?
%→↑←--+ }
↑÷|←--+ }

- A) SEKTÖR B) FAKTÖR C) EDITÖR
D) VEKTÖR E) KONTÖR

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

1. $\left. \begin{array}{l} 325 \\ 826 \\ 628 \\ 526 \\ 423 \end{array} \right\} 423 = ?$

- A) 784 B) 482 C) 987 D) 689 E) 284

2. $\left. \begin{array}{l} KIR \\ PIS \\ PAS \\ KAS \\ KAR \end{array} \right\} KAS = ?$

- A) MEN B) SOL C) MON D) SEL E) MOL

3. $\left. \begin{array}{l} \triangle \circ \bullet \\ \blacksquare \circ \square \\ \square \triangle \blacksquare \\ \bullet \square \blacksquare \\ \circ \square \bullet \end{array} \right\} \triangle \circ \bullet = ?$

- A) /-\ B) +-x C) x\/
D) \+/ E) -\x

4. $\left. \begin{array}{l} 2314 \\ 3251 \\ 4261 \\ 5162 \\ 6152 \end{array} \right\} 6152 = ?$

- A) 9876 B) 8907 C) 6947
D) 4709 E) 0749

5. $\left. \begin{array}{l} \blacksquare \diamond \star \bullet \\ \star \triangle \bullet \circ \\ \diamond \triangle \circ \blacksquare \\ \bullet \blacksquare \diamond \diamond \\ \triangle \star \diamond \circ \end{array} \right\} \diamond \triangle \circ \blacksquare = ?$

- A) $\uparrow \rightarrow \downarrow \leftarrow$ B) $\rightarrow \wedge \uparrow$ C) $\downarrow \leftarrow \backslash$
D) $\leftarrow \uparrow \rightarrow$ E) $\swarrow \downarrow \searrow$

6. $\left. \begin{array}{l} SARI \\ SAYI \\ SAHI \\ SAKI \\ RAKI \end{array} \right\} SAHI = ?$

- A) KOLA B) KOMA C) KONU
D) KORU E) MONA

7. BİFTEK }
KİBRİT } ÇİĞDEM = ?
TEBRİK }
REÇİNE }
ÇİĞDEM }

- A) SFDJPF B) LJCSJU
C) DJHEFN D) CJGUFL
E) UFCSJL

10. KAVAL }
ÇATAL } KAŞIK = ?
ÇAKAL }
KAÇIK }
KAŞIK }

- A) LBYBM B) DBUBM C) LBTİL
D) LBDİL E) DBLBM

8. 987685 }
685685 } 987685 = ?
385385 }
284385 }
987385 }

- A) 012314 B) 012614 C) 314314
D) 614614 E) 715614

11. 73727 }
25354 } 71364 = ?
71364 }
47153 }
26163 }

- A) 84947 B) 37383 C) 39746
D) 63907 E) 80706

9. YAPTI }
YIKMA } MUSKA = ?
KAPTI }
SUSMA }
MUSKA }

- A) ZJLNB B) LBRUJ C) TÛTNB
D) ZBRUJ E) NÛTLB

12. $\triangle \blacktriangle \blacktriangledown \square \circ$ }
 $\bullet \square \blacksquare \triangle \circ$ } $\nabla \square - / \blacktriangle \setminus = ?$
 $\blacktriangledown \triangle \nabla \square + \blacktriangle$ }
 $\circ \square \bullet \blacktriangledown \square \triangle$ }
 $\nabla \square - / \blacktriangle \setminus$ }

- A) φψτεβξ B) θψωαβπ C) αβθγψπ
D) πψθγψα E) γβφψσβ

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

1.

U	L	U	S
U	S	L	U
S	U	L	U
L	U	S	U

=

?

- A)

1	3	1	4
1	3	4	1
4	1	3	1
3	1	4	1

 B)

1	3	1	4
1	4	3	1
4	1	3	1
3	1	4	1

 C)

1	3	1	4
4	1	3	1
3	1	4	1
1	4	3	1
- D)

1	3	1	4
4	1	3	1
1	4	3	1
3	1	4	1

 E)

1	3	4	1
1	4	3	1
4	1	3	1
3	1	4	1

2.

■	△	○	■
■	△	■	△
○	■	○	■
△	■	○	○

=

?

- A)

9	8	7	9
9	8	9	8
7	9	7	9
8	9	9	7

 B)

8	9	7	8
8	9	8	9
7	8	7	9
8	8	7	7

 C)

9	8	7	9
9	8	9	8
8	9	7	9
7	9	7	7
- D)

9	8	7	9
9	8	9	8
7	9	7	9
8	9	7	7

 E)

7	9	8	7
7	9	7	8
8	7	8	9
9	7	8	8

3.

△	●	□	★	▽
▽	□	★	●	★
★	△	□	△	●
□	△	▽	●	□
▽	▽	△	□	★

= ?

- A) ABCDE B) ABCDE C) ABCDE
 ECDBD ECDBD ECDBD
 DACAB DACAB DACAB
 CAEBC CAEBC CAEBC
 EEABD EAABD EEACD
- D) ABCDE E) ABCDE
 ECDBD ECDBD
 DACAB DBCAB
 CAEBC CAEBC
 EAACD EEACD

4.

K	L	M	N	P
K	K	M	N	L
L	M	L	N	P
P	P	K	N	L
L	K	P	M	N

= ?

- A) α β γ θ ε B) α β γ θ ε C) α β γ θ ε
 α α γ θ β α α θ γ β α α γ θ β
 β γ β θ β β γ β θ ε β γ β θ ε
 ε ε α β θ ε ε α θ β ε ε α β θ
 β α ε θ γ β α ε γ θ β α ε γ θ
- D) α β γ θ ε E) α β γ θ ε
 α α γ θ β α α γ θ β
 β γ β θ ε β γ β θ ε
 ε ε α θ β ε α α θ β
 β α ε γ θ β α ε γ θ

5.

X Y Z T L
L L X Y Y
Z X Y Z L
Y Z T X T
X L Y T T

- A) ★○▲+□ B) ★○▲+□ C) ★○▲+□
□□★○○ □□★○○ □□★○○
▲★○▲□ ▲★○▲□ ▲★○▲+
○▲+★+ ○▲+★+ ○▲+★+
★□○++ +□○★★ ★□○++
- D) ★○▲+□ E) ★○▲+□
□□○★★ □□★○○
▲★○▲□ ▲★○▲□
○▲+★+ ▲○+★+
★□○++ ★□○++

6.

+ - × / \
/ / + - ×
\ + × × -
/ \ / \ +
+ × - - +

- A) 2 4 6 8 0 B) 2 4 6 8 0 C) 2 4 6 8 0
8 8 2 4 6 8 8 2 4 6 8 8 2 4 6
8 2 6 6 4 0 2 6 6 4 0 2 6 6 4
8 0 8 0 2 8 0 8 0 2 0 8 0 8 2
2 6 4 4 2 2 4 6 6 2 2 6 4 4 2
- D) 2 4 6 8 0 E) 2 4 6 8 0
8 8 2 4 6 8 8 2 4 6
0 2 6 6 4 0 2 6 6 4
8 0 8 0 4 8 0 8 0 2
2 6 4 4 2 2 6 4 4 2

7.

D E L T A
E L L D A
D A L E T
T L T E T
A T E L D

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

8.

● ♥ ■ ⊕ ▲
▲ ♥ ⊕ ⊕ ●
■ ■ ⊕ ▲ ♥
♥ ♥ ■ ● ●
⊕ ▲ ♥ ⊕ ●

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

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

1. - 6. soruları aşağıdaki bilgilere göre cevaplayınız.

A	B	C	İ	J	K	R	U
D	E	F	L	M	N	S	T
G	H	I	O	Ö	P	Ş	Y

1. $\lfloor \vee \vee \langle \vee \sqsupset \vee \wedge = ?$

- A) KURTULMA B) KURTULUŞ
C) KURTARMA D) KURTULMUŞ
E) YORULMUŞ

2. KAZANMAK = ?

- A) $\lfloor \rfloor \langle \rfloor \square \square \rfloor \rfloor$
B) $\lfloor \rfloor \langle \rfloor \square \square \rfloor \rfloor$
C) $\lfloor \rfloor \langle \rfloor \square \square \rfloor \rfloor$
D) $\rfloor \rfloor \langle \rfloor \square \square \rfloor \rfloor$
E) $\rfloor \rfloor \langle \rfloor \square \square \rfloor \rfloor$

3. BAŞARILI = ?

- A) $\lfloor \rfloor \wedge \rfloor \vee \Gamma \square \Gamma$
B) $\lfloor \rfloor \wedge \rfloor \vee \Gamma \square \Gamma$
C) $\lfloor \rfloor \wedge \rfloor \vee \Gamma \square \Gamma$
D) $\lfloor \rfloor \wedge \rfloor \vee \Gamma \square \Gamma$
E) $\lfloor \rfloor \wedge \rfloor \vee \Gamma \square \rfloor$

4. $\langle \square \square \square \wedge \rfloor \vee \square \rfloor = ?$

- A) TEBEŞİRLİ B) TEBESİRLİ
C) TEPKİMELİ D) TEBEKİRLİ
E) TEPŞİMELİ

5. $\square \vee \langle \square \vee \square \vee \rfloor = ?$

- A) MUTSUZLUK B) MATLILIK
C) MUTLULUK D) MUHAKKAK
E) MUTFAKLI

6. JETONLU = ?

- A) $\lfloor \square \langle \rfloor \square \vee$
B) $\lfloor \square \langle \rfloor \square \vee$
C) $\lfloor \square \langle \rfloor \square \vee$
D) $\lfloor \square \langle \rfloor \square \vee$
E) $\lfloor \square \langle \rfloor \square \vee$

7.

S A D E L İ K
A Ç I K G Ö Z
Ç E K İ L İ Ş
E F K A R L I
?

- A) KOLONYA
C) AKTARMA
E) FAMİLYA
- B) KIRMIZI
D) RAPTIYE

8.

A Ç İ Ö L Ç E R
B A Ğ L I L İ K
C E V A P S I Z
Ç I K A R S I Z
?

- A) SİMETRİK
C) FLORESAN
E) DAĞILMAK
- B) KARAKTER
D) BAĞLANTI

9.

D A Y A N I K L I
A D İ L E Ş M E K
İ Ğ N E L E Y İ Ş
E K L E N T İ L İ
?

- A) NESNELLİK
C) TAMİRHANE
E) LİKİRDAMA
- B) KABASAKAL
D) İHBARNAME

10.

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

L O Ş
Ş E M A
A Ç L İ K
K A F T A N
?

- A) TAHTALI
C) FENOMEN
E) KADAYIF
- B) NEGATİF
D) AĞAÇLIK

11.

A D İ S Y O N
N E F E S Ç İ
Ç A M A Ş I R
Ş E M S İ Y E
?

- A) İÇLENİŞ
C) YAĞIMSIZ
E) MAJESTE
- B) SATRANÇ
D) ENGEREK

12.

M A C E R A L I
I S T A V R O Z
Z E N C E F İ L
L E N F O S İ T
?

- A) NAMUSSUZ
C) TARAFSIZ
E) FERAHLIK
- B) EĞİLİMLİ
D) SAĞLIKÇI

1. KERATİN + DARILIK = RADAR
MADALYA + MAKARNA = ?

- A) ADMAK
C) DAMAK
E) KARMA
- B) MAMAK
D) YAMAK

2. SİLİNİŞ + GİTMEK = SİLGİ
FEDAKAR + AİLEVİ = ?

- A) FEDAL
C) FELEV
E) DAKEV
- B) VİKAR
D) FEDAİ

3. MİTİNG + ERİKLİ = TİNER
SAMANI + TILSIM = ?

- A) SATIL
C) MANTIK
E) MATIL
- B) MANİT
D) MANTI

4. MADALYA + YANARDAĞ = DALYAN
DİRENME + KLİMATÖR = ?

- A) RENKLİ
C) RELİM
E) İRKLİM
- B) DİREKLİ
D) RENK

5. KAPLAN + HANTAL = APTAL
GÖZLÜK + İKİLEM = ?

- A) ÖZİKİ
C) ÖZLEM
E) LÜKEM
- B) GÖZLE
D) LÜKİL

6. ÇENGEL + PERVANE = PERGEL
ÇARDAK + BARINAK = ?

- A) ÇARBAK
C) NAKÇAR
E) DARINAK
- B) BARDAK
D) DAKINA

7. SABAHLIK + ARATMA = BAHARAT
SAKALSIZ + ÇALILI = ?

- A) KALSALI
C) SALÇALI
E) KALÇALI
- B) SAKAÇA
D) AKALÇIL

8. KAFTANLI + KAYGAN = AFGANLI
KEYFETME + ACİLEN = ?

- A) EYLENME
C) KEYLEME
E) FELETME
- B) EYCİLME
D) EYLEME

9. BADEMLİK + MİZANSEN = DESENLİ
DİKENSİZ + AKADEMİK = ?

- A) KENEMİK
C) DİMİKSİZ
E) KEMİKSİ
- B) KEMİKSİZ
D) DİDESİZ

10. HOŞÇAKAL + CEVAPSIZ = KALÇASIZ
KELEBEK + SERPİNTİ = ?

- A) BEKLEMEK
C) BEKLENTİ
E) ERBEKTİ
- B) BEKSER
D) PİNTİLE

11. ZAMANSIZ + CEBİRSEL = CEZASIZ
DAVETKAR + FERAHLIK = ?

- A) FETVALAR
C) DARAKAR
E) REVALIK
- B) FEDAKAR
D) FEDALIK

12. TABAKALI + ANLAMSAL = TASALI
NETAMELİ + BİRLEŞEN = ?

- A) NEBİLİ
C) BİNELİ
E) NEŞELİ
- B) NELELİ
D) BİRELİ

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

1. BUHARLAŞMAK = ?

- A) ●□▲▽★○▽■▲▽□
B) ○□▲▽★○▽■▲▽□
C) ●□▲▽★○▽■▲▽□
D) ●□▲▽★○▽□▲▽□
E) ●□▲▽★○▽■▲▽□

2. ÇALKALAMAK = ?

- A) ▲○Z▲○Z○Z○▲
B) ■○Z▲○Z○Z○▲
C) ■○Z▲○Z○Z○▲
D) Z○Z▲○Z○Z○▲
E) ■○Z▲○Z○Z○▲

3. BAKAKALMAK = ?

- A) ▲■○■○■★■□○
B) ▲□○■○□★□■○
C) ▲■○■○■★□■○
D) ▲■○■○■★□■○
E) ▲■○■○■★■□○

4. SABIRSIZLIKLA = ?

- A) ▲○Z▲▲Z▲○★Z▲
B) ▲○Z▲▲Z▲○★Z▲
C) ▲○Z▲▲Z▲○★Z▲
D) ▲○Z▲▲Z▲○★Z▲
E) ▲○Z▲▲Z▲○★Z▲

5. KABABURUN = ?

- A) Z▲○▲○□□▽□Z
B) Z▲○▲○□□▽□★
C) Z▲○▲Z▲□□▽□★
D) Z▲○▲○□□Z▲★
E) Z▲○▲○□□▽□▲

6. MİLİMETRİK = ?

- A) ○▲Z▲○□□▲▲▽○
B) ○▲Z▲○▲▲▲▽▲○
C) ●▲Z▲○□□▲▽▲○
D) ○▲Z▲○□□▲▽▲○
E) ○▲Z▲○□□▲▽▲○

7. DİZGİCİLİK = ?

- A) Δ⊕⊗⊕⊖∇○∠○⊗
- B) Δ○⊗⊕⊖∇○∠○⊗
- C) Δ○⊗⊕⊖∇○∠○⊗
- D) ▲○⊗⊕⊖∇○▲○⊗
- E) Δ○⊗⊕⊖∇○∠○⊗

8. EKLEMLENME = ?

- A) ⊖▲⊖⊖▲⊖⊖⊖▲⊖
- B) ⊖▲⊖⊖▲⊖⊖⊖▲⊖
- C) ⊖▲⊖⊖▲⊖⊖⊖▲⊖
- D) ⊖▲⊖⊖▲⊖⊖⊖▲⊖
- E) ⊖▲⊖⊖▲⊖⊖⊖▲⊖

9. FOTOELEKTRON = ?

- A) ⊕▲□▲⊖⊖⊖▲□★▲□
- B) ⊖▲□▲⊖⊖⊖▲□★▲□
- C) ⊖▲□▲⊖⊖⊖▲□★▲□
- D) ⊕▲□▲⊖⊖⊖▲□★▲□
- E) ⊖▲□▲⊖⊖⊖▲□★▲□

10. ● ∠▲⊗∠∠∠⊖⊗∠▲ = ?

- A) LABORATUVAR
- B) HABERLEŞMEK
- C) MANDALLAMAK
- D) OLASILIKSIZ
- E) KALITSALLIK

11. ■⊖∠▲□ ∠▲□ ▲⊖ = ?

- A) KARNABAHAR
- B) BOZUKATMAK
- C) SELAMLAMAK
- D) KALDIRIMSI
- E) BAHTSIZLIK

12. ■∠▲□ ▲□⊗⊕□ = ?

- A) FIKIRDAMAK
- B) FLAMANKUŞU
- C) FISILDAMAK
- D) FIKRİSABİT
- E) FEDAKARLIK

A	E	C	D	B	D	C	A	E	D	C	B
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1. SAKLAMA = TBLMBNB
LAKERDA = ?

- A) MBLDSL B B) MBKDSEB
C) MBLDSEA D) MBLDSEB
E) MBLDMEB

2. MEKTEPLİ = NFLUFRMJ
PİRAMİT = ?

- A) RJSBNİV B) RJSBNRU
C) RJSBNJU D) RJSBJNU
E) RJSBRNU

3. VIRVIRCI = ELKELKAL
ELİPTİK = ?

- A) VIZOSZR B) VINOSTR
C) VIZOSTR D) VINOSMR
E) VIZOSIR

4. DALKILIÇ = FCNMJNJE
ÇIKARSIZ = ?

- A) EJMCFTJA B) EJMCPTAJ
C) EJMCPTEA D) EJMCP TJM
E) EJMCP TJA

5. KARADUMAN = NDTDGYRDS
DAVLUMBAZ = ?

- A) GDAPYRELD B) GDAPYREDL
C) GDAPRYEDL D) GDAPYRDLE
E) DGAPYREDL

6. HABERCİ = GZADPBE
EBEVEYN = ?

- A) DADPDVM B) DADÜDVM
C) DADGDVM D) DADZDUM
E) ADAÜDUM

7. ADAMAK = BEBNBL
NOBEL = ?

- A) MDADK B) MKADK
C) MÖADK D) MOEDK
E) NOEDK

8. FANTASTİK = GBPUBŞUJL
BULUCU = ?

- A) ATKTNT B) ATKTFT
C) ATKTBT D) ATKTST
E) ATKTİT

9. ZEVZEKLİK = AFYAFLNJL
FAYANS = ?

- A) EZVZLK B) EZVZLİ
C) EZVELR D) EZVZLR
E) EVZVLR

10. MADONNA = SBEÖPPB
NARKOTİK = ?

- A) PBTLÖUJL B) PBTLÖUJT
C) PBTLÖUJB D) PBTÖLUJL
E) PBTLÖUJK

11. SEMBOL = TFNCÖM
EĞİTSEL = ?

- A) FHÖCTFM B) FHNUTFM
C) FHJCTFM D) FHCUTFM
E) FHJUTFM

12. İNTEGRAL = JPUFHSBM
HUMUSLU = ?

- A) GTLTRAT B) GTLTRKT
C) GTETRAT D) GTNTRKT
E) GTLTEKT

D	C	A	E	B	B	C	C	D	A	E	B
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1. - 12. soruları aşağıda verilen sembollere göre cevaplayınız.



1. $\bigcirc \otimes \times \ominus$

- A) $\oplus \bigcirc \otimes$ B) $\otimes \bigcirc \triangle$
C) $\oplus \bigcirc \otimes$ D) $\bigcirc \otimes \otimes$
E) $\otimes \otimes \bigcirc$

2. $\frac{\sqrt{\oplus \odot \odot} + \sqrt{\oplus \otimes}}{\sqrt{\otimes \odot}} = ?$

- A) \oplus B) \otimes C) \star
D) $\oplus \otimes$ E) $\oplus \otimes$

3. $\ominus \sqrt{\oplus \otimes \bigcirc} \times \star = ?$

- A) $\square \odot$ B) $\ominus \square$
C) $\odot \bigcirc$ D) $\odot \square$
E) $\bigcirc \bigcirc$

4.
$$\begin{array}{r} \otimes \bigcirc \triangle \\ + \quad \otimes \star \\ \hline ? \quad ? \quad ? \end{array}$$

- A) $\ominus \ominus \otimes$ B) $\ominus \otimes \otimes$
C) $\otimes \ominus \otimes$ D) $\otimes \otimes \otimes$
E) $\ominus \ominus \otimes$

5. $\oplus \odot \otimes + \star \ominus = ?$

- A) $\otimes \square \star$ B) $\otimes \square \star$
C) $\otimes \oplus \star$ D) $\otimes \oplus \star$
E) $\otimes \otimes \star$

6. $\triangle \otimes \bigcirc - \star \odot = ?$

- A) $\star \odot \bigcirc$ B) $\star \odot \triangle$
C) $\star \odot \oplus$ D) $\triangle \odot \oplus$
E) $\triangle \odot \bigcirc$

7.
$$\begin{array}{r} \oplus \otimes \\ x \\ \hline x \quad x \quad y \end{array} \Rightarrow x + y = ?$$

- A) $\oplus \blacksquare$ B) $\oplus \oplus$
 C) $\oplus \odot$ D) $\oplus \ominus$
 E) $\oplus \otimes$

8.
$$\begin{array}{r} \triangle \otimes \ominus \\ + \\ \star \otimes \odot \\ \hline ? \quad ? \quad ? \quad ? \end{array}$$

- A) $\oplus \otimes \ominus \triangle$ B) $\oplus \star \ominus \triangle$
 C) $\oplus \star \otimes \triangle$ D) $\oplus \star \triangle \ominus$
 E) $\oplus \otimes \ominus \star$

9.
$$\oplus \blacksquare \otimes - \otimes \otimes = xy$$

 $x \cdot y = ?$

- A) $\otimes \odot$ B) \star
 C) $\otimes \ominus$ D) $\otimes \odot$
 E) $\odot \otimes$

10.
$$\begin{array}{r} \otimes \ominus \oplus \\ - \\ \ominus \ominus \otimes \\ \hline x \quad y \quad z \end{array} \Rightarrow x + y + z = ?$$

- A) $\oplus \otimes$ B) $\otimes \star$
 C) $\oplus \star$ D) $\oplus \triangle$
 E) $\otimes \otimes$

11.
$$\begin{array}{r} \ominus \otimes \otimes \\ - \\ \hline ? \end{array} \quad \left| \quad \begin{array}{r} \ominus \otimes \\ \hline \end{array}$$

- A) \oplus B) \otimes C) \ominus
 D) \odot E) \ominus

12.
$$\begin{array}{r} \oplus \otimes \ominus \\ x \\ \hline \triangle \star \\ K \quad L \quad M \quad N \quad P \end{array} \Rightarrow K + L + M + N + P = ?$$

- A) $\oplus \ominus$ B) $\oplus \odot$
 C) $\oplus \ominus$ D) $\ominus \otimes$
 E) $\oplus \otimes$

C	B	D	E	B	C	A	B	D	D	D	E
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BÖLÜM
CHAPTER **2**

SAYILAR
(NUMBERS)

1.
$$\begin{array}{r} A1C7 \\ +3B8D \\ \hline 6643 \end{array} \Rightarrow A+B+C+D=?$$

A) 15 B) 16 C) 17 D) 18 E) 19

2.
$$\begin{array}{r} AB \\ +BA \\ \hline 132 \end{array} \quad \begin{array}{r} AB \\ -BA \\ \hline 36 \end{array} \Rightarrow A \cdot B=?$$

A) 4 B) 12 C) 24 D) 32 E) 48

3.
$$\begin{array}{r} AB \\ +BA \\ \hline 165 \end{array} \Rightarrow \frac{A+B}{5}=?$$

A) 3 B) 5 C) 8 D) 15 E) 21

4.
$$\begin{array}{r} AB \\ BA \\ AA \\ +BB \\ \hline 374 \end{array} \Rightarrow \begin{array}{l} A > B \\ B = ? \end{array}$$

A) 17 B) 9 C) 8 D) 7 E) 5

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

A) 1234 B) 1428 C) 1842
D) 1246 E) 1248

6.
$$\begin{array}{r} AA \\ +AA \\ \hline BB \end{array} \quad \begin{array}{r} BB \\ +BB \\ \hline CC \end{array} \quad \begin{array}{r} CC \\ +CC \\ \hline DD \end{array} \quad \begin{array}{r} AA \\ BB \\ CC \\ +DD \\ \hline XYZ \end{array}$$

 $X \geq A \Rightarrow XYZ=?$
A) 154 B) 165 C) 176
D) 178 E) 143

7.
$$\begin{array}{r} ABC \\ + AC \\ \hline 71A \end{array} \Rightarrow AB - BC = ?$$

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

10.
$$\begin{array}{r} ABC \\ + AC \\ \hline 94A \end{array} \Rightarrow A.C - A.B = ?$$

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

8.
$$\begin{array}{r} KLM \\ MK \\ + L \\ \hline 70L \end{array} \Rightarrow L^2 = ?$$

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

11. $K \neq 1$

$$\begin{array}{r} KK \\ + KK \\ \hline LL \end{array} \quad \begin{array}{r} LL \\ + LL \\ \hline MM \end{array} \quad \begin{array}{r} LL \\ + MM \\ \hline XYK \end{array} \Rightarrow X+Y = ?$$

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

9.
$$\begin{array}{r} ABC \\ +BAC \\ \hline 780 \end{array} \Rightarrow A+B+C = ?$$

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

12.
$$\begin{array}{r} xyx \\ + yx6 \\ \hline zxzx \end{array} \Rightarrow x+y+z = ?$$

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

D	D	A	C	E	B	E	E	B	E	D	A
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1.
$$\begin{array}{r} 1y2 \\ +x6z \\ \hline 805 \end{array} \Rightarrow x+y+z=?$$

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

2.
$$\begin{array}{r} KLM \\ +51N \\ \hline NM6 \end{array} \quad \begin{array}{l} M+N \geq 10 \\ N=M+2 \\ K+L+M-N=? \end{array}$$

- A) 25 B) 17 C) 13 D) 10 E) 7

3.
$$\begin{array}{r} x \\ y \quad y \quad x \\ +z \quad +z \quad +y \\ \hline 21 \quad 13 \quad 15 \end{array} \Rightarrow xyz=?$$

- A) 786 B) 867 C) 768
D) 876 E) 687

4.
$$\begin{array}{r} KLM \\ +N75 \\ \hline 1K21 \end{array} \quad \begin{array}{l} K=M+2 \\ K+L+M+N=? \end{array}$$

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

5.
$$\begin{array}{r} ABC \\ BC \\ + \quad C \\ \hline 1035 \end{array} \quad A+B+C=?$$

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

6.
$$\begin{array}{r} 7TX8 \\ +MYZ \\ \hline 8116 \end{array} \Rightarrow X+Y+Z=?$$

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

7.
$$\begin{array}{r} xy \\ + yz \\ \hline 133 \end{array} \Rightarrow \min(x) = ?$$

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

8.
$$\begin{array}{r} KLM \\ -MLK \\ \hline ABC \end{array} \Rightarrow A+B+C = ?$$

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

9.
$$\begin{array}{r} KLM \\ + xyz \\ \hline 1443 \end{array} \quad \begin{array}{r} KLM \\ -xyz \\ \hline 507 \end{array} \Rightarrow K+L+M = ?$$

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

10.
$$\begin{array}{r} \bullet \star \blacksquare \\ \star \blacksquare \\ + \blacksquare \\ \hline 798 \end{array} \quad \begin{array}{r} \star < \bullet \\ \bullet \star \blacksquare = ? \end{array}$$

 A) 746 B) 646 C) 696
 D) 747 E) 748

11.
$$\begin{array}{r} ABC \\ + XYZ \\ \hline 999 \end{array} \quad \begin{array}{r} ABC \\ -XYZ \\ \hline 487 \end{array} \Rightarrow XYZ = ?$$

 A) 743 B) 256 C) 473
 D) 246 E) 546

12.
$$\begin{array}{r} 7A2 \\ -2A7 \\ \hline xyz \end{array} \Rightarrow \sqrt{\frac{x+z}{y}} = ?$$

 A) 1 B) 3 C) 9 D) 18 E) 81

C	E	D	B	A	C	C	E	B	A	B	A
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1.
$$\begin{array}{r} KL \\ +KL \\ \hline L4 \end{array} + \begin{array}{r} L \\ M \\ \hline 12 \end{array} \Rightarrow K+L+M=?$$

- A) 10 B) 12 C) 15 D) 17 E) 18

2.
$$\begin{array}{r} AB \\ -BA \\ \hline 27 \end{array} \quad \begin{array}{l} 9 - B = 4 \\ \Rightarrow A \cdot B = ? \end{array}$$

- A) 5 B) 8 C) 10 D) 15 E) 40

3.
$$\begin{array}{r} 532 \\ -ABC \\ \hline 1B5 \end{array} \quad \begin{array}{l} B < A \\ \Rightarrow A+B+C=? \end{array}$$

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

4.
$$\begin{array}{r} 5yz \\ -x8x \\ \hline 189 \end{array} \Rightarrow x+y+z=?$$

- A) 5 B) 9 C) 10 D) 12 E) 13

5.
$$\begin{array}{r} ABC \\ -CBA \\ \hline xy3 \end{array} \Rightarrow x \cdot y = ?$$

- A) 36 B) 45 C) 54 D) 63 E) 72

6.
$$\begin{array}{r} ABA \\ -AB \\ \hline 509 \end{array} \Rightarrow AB=?$$

- A) 54 B) 56 C) 64 D) 65 E) 76

7.
$$\begin{array}{r} x9y \\ -y \times 9 \\ \hline 1xz \end{array} \quad y+z=7 \Rightarrow y.z=?$$

- A) 3 B) 4 C) 9 D) 12 E) 15

8.
$$\begin{array}{r} AA \quad BB \quad CC \\ -BB \quad -CC \quad -DD \\ \hline BB \quad CC \quad DD \end{array} \Rightarrow AB-CD=?$$

- A) 84 B) 63 C) 42 D) 36 E) 21

9.
$$\begin{array}{r} A5B \\ -4A9 \\ \hline 2AC \end{array} \quad \begin{array}{l} A+B=12 \\ \Rightarrow A+B+C=? \end{array}$$

- A) 5 B) 6 C) 7 D) 12 E) 18

10.
$$\begin{array}{r} \oplus \boxtimes \\ - \boxtimes \oplus \\ \hline 45 \end{array} \quad \begin{array}{r} \boxtimes \boxtimes \\ - \Delta \Delta \\ \hline 22 \end{array} \Rightarrow \oplus - \Delta = ?$$

- A) 2 B) 4 C) 5 D) 7 E) 9

11.
$$\begin{array}{r} AB \quad 17 \quad A > C \\ -36 \quad -A \\ \hline BA \quad C \end{array} \Rightarrow A+B+C=?$$

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

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

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

1.
$$\begin{array}{r} 8K4 \\ -1K5 \\ \hline KLL \end{array} \Rightarrow K+L=?$$

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

2. $A = 3B$
 $C = A - B \Rightarrow A + B + C = ?$

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

3.
$$\begin{array}{r} ABC \\ -CBA \\ \hline 495 \end{array} \Rightarrow \max(A + C) = ?$$

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

4.
$$\begin{array}{r} x \\ -y \\ \hline 2 \end{array} \quad \begin{array}{r} y \\ -z \\ \hline 2 \end{array} \quad \begin{array}{r} z \\ -t \\ \hline 2 \end{array} \quad \begin{array}{l} x+t=10 \\ \Rightarrow y.z=? \end{array}$$

- A) 35 B) 32 C) 24 D) 18 E) 12

5.
$$\begin{array}{r} K \\ -8 \\ \hline L \end{array} \Rightarrow (K+L)^2 = ?$$

- A) 9 B) 10 C) 81 D) 100 E) 121

6.
$$\begin{array}{r} \triangle \square \\ - \bullet \\ \hline 9 \end{array} \quad \begin{array}{r} 9 \\ - \bullet \\ \hline \triangle \end{array} \Rightarrow \square = ?$$

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

7.
$$\begin{array}{r} A A B \\ - B B A \\ \hline 3 2 7 \end{array} \Rightarrow \max(A + B) = ?$$

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

10.
$$\begin{array}{r} 8 2 K L \\ - K 6 L K \\ \hline 3 6 M 8 \end{array} \Rightarrow K + L + M = ?$$

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

8.
$$\begin{array}{r} K L M \\ - K M L \\ \hline 4 5 \end{array} \Rightarrow \min(L + M) = ?$$

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

11.
$$\begin{array}{r} A B \\ - B A \\ \hline 5 4 \end{array} \Rightarrow \max(A.B) = ?$$

- A) 27 B) 20 C) 18 D) 16 E) 7

9.
$$\begin{array}{r} A B B \\ - B A A \\ \hline x y 6 \end{array} \Rightarrow x.y = ?$$

- A) 10 B) 15 C) 20 D) 24 E) 30

12.
$$\begin{array}{r} K K \\ - L L \\ \hline 5 5 \end{array} \Rightarrow \min(KL) = ?$$

- A) 50 B) 61 C) 72 D) 83 E) 84

D	C	A	C	D	C	A	C	B	D	A	B
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1.
$$\begin{array}{r} 848 \\ -\blacksquare 6 \bullet \\ \hline 17 \bullet \end{array} \Rightarrow \bullet \times \blacksquare = ?$$

- A) 11 B) 15 C) 28 D) 54 E) 63

2.
$$\begin{array}{r} K7L \\ -MLK \\ \hline 329 \end{array} \Rightarrow K+L+M = ?$$

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

3.
$$\begin{array}{r} ABC \\ -BD \\ \hline BAE \end{array} \quad C < D \Rightarrow A.B = ?$$

- A) 8 B) 9 C) 17 D) 72 E) 98

4.
$$\begin{array}{r} KKK \\ LLL \\ + MMM \\ \hline 1665 \end{array} \Rightarrow \max(M) = ?$$

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

5.
$$\begin{array}{r} A \\ -B \\ \hline C \end{array} + \begin{array}{r} A \\ B \\ \hline CC \end{array} \Rightarrow AB - BC = ?$$

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

6.
$$\begin{array}{r} KL4 \\ + MKM \\ \hline LMLL \end{array} \Rightarrow K+L-M = ?$$

- A) 17 B) 9 C) 6 D) 5 E) 3

7.
$$\begin{array}{r} AB3 \\ -CBD \\ \hline 3A5 \end{array} \quad A.B = 36 \Rightarrow A+B+C+D = ?$$

 A) 23 B) 24 C) 25 D) 26 E) 27

10.
$$\begin{array}{r} KLM \\ -NLK \\ \hline 298 \end{array} \quad K=2N, L=K-1 \Rightarrow K+L+M+N = ?$$

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

8.
$$\begin{array}{r} KKK \\ + LL \\ \hline L43 \end{array} \Rightarrow K.L = ?$$

 A) 30 B) 40 C) 42 D) 56 E) 64

11.
$$\begin{array}{r} A \\ -8 \\ \hline B \end{array} \Rightarrow AB - BA = ?$$

 A) 91 B) 81 C) 72 D) 81 E) 73

9.
$$\begin{array}{r} KLM \\ LM \\ + M \\ \hline 1064 \end{array} \Rightarrow K+L+M = ?$$

 A) 17 B) 19 C) 22 D) 24 E) 26

12.
$$\begin{array}{r} xy \\ -yx \\ \hline KL \end{array} \Rightarrow K+L = ?$$

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

D	C	D	D	E	E	D	C	D	E	C	D
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1.
$$\begin{array}{r} KLM \\ + KM \\ \hline MKN \end{array} \quad \begin{array}{r} L \\ - M \\ \hline 2 \end{array} \Rightarrow K = ?$$

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

2.
$$\begin{array}{r} xy4 \\ + zxz \\ \hline yzyy \end{array} \Rightarrow (x+y-z)^2 = ?$$

- A) 9 B) 17 C) 49 D) 169 E) 289

3.
$$\begin{array}{r} xyz \\ yzx \\ zxy \\ xxx \\ + yyy \\ \hline + zzz \\ \hline 2664 \end{array} \Rightarrow \frac{x+y+z}{2} = ?$$

- A) 3 B) 6 C) 12 D) 24 E) 48

4.
$$\begin{array}{r} K9L \\ - LLM \\ \hline 569 \end{array} \Rightarrow K+L+M = ?$$

- A) 5 B) 7 C) 10 D) 12 E) 14

5.
$$\begin{array}{r} KLM \\ - MLK \\ \hline 396 \end{array} \quad \begin{array}{r} KK \\ + MM \\ \hline 88 \end{array} \Rightarrow K.M = ?$$

- A) 2 B) 6 C) 8 D) 12 E) 18

6.
$$\begin{array}{r} \alpha \beta \theta \gamma \epsilon \\ + \epsilon \gamma \theta \beta \alpha \\ \hline 66666 \end{array} \Rightarrow (\epsilon+\alpha).(\beta+\gamma).\theta = ?$$

- A) 6 B) 15 C) 36 D) 72 E) 108

7.
$$\begin{array}{r} 8A1 \\ -1A8 \\ \hline xyz \end{array} \Rightarrow x.y.z = ?$$

- A) 0 B) 45 C) 81 D) 135 E) 162

8.
$$\frac{xxx+yyy}{xxx-yyy} = \frac{5}{2} \Rightarrow x.y = ?$$

- A) 24 B) 21 C) 18 D) 15 E) 12

9.
$$\begin{array}{ll} A^3 - B = A & B \geq 10 \\ A + B = 27 & \Rightarrow A.Z = ? \\ B.Z = 48 & \end{array}$$

- A) 18 B) 12 C) 6 D) 3 E) 2

10.
$$\frac{xyz - zyx}{xz - zx} = x + y$$

$$x^2 + y^2 = 65 \Rightarrow x.y = ?$$

- A) 40 B) 28 C) 14 D) 9 E) 8

11.
$$\frac{xxx}{yyy} = x$$

$$\sqrt{yxx} = yz \Rightarrow x+y+z = ?$$

- A) 9 B) 7 C) 6 D) 4 E) 3

12.
$$\begin{array}{ll} x & 4y = z \\ + y & \Rightarrow z = ? \\ \hline z & \end{array}$$

- A) $\frac{4x}{3}$ B) $\frac{3x}{2}$ C) $\frac{x}{3}$ D) 2x E) 4x

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

1.

$$\begin{array}{r} \cdot \cdot \cdot \\ x \quad 2 \ 4 \\ \hline 5 \ 4 \ 0 \\ + \cdot \cdot \cdot \\ \hline ? \ ? \ ? \ ? \end{array}$$

- A) 2240 B) 3240 C) 2140
D) 3140 E) 3250

2.

$$\begin{array}{r} \bullet \ 3 \ \blacksquare \\ x \quad 1 \ 1 \\ \hline \cdot \cdot \cdot \\ + \cdot \cdot \cdot \\ \hline \bullet \ 5 \ 9 \ \blacksquare \end{array}$$

$\Rightarrow \bullet \times \blacksquare = ?$

- A) 15 B) 12 C) 8 D) 6 E) 2

3.

$$\begin{array}{r} 3 \ 4 \ \blacksquare \\ x \quad \bullet \ \blacksquare \\ \hline 1 \ 7 \ \bullet \ \blacksquare \\ + 6 \ 9 \ 0 \\ \hline 8 \ 6 \ \bullet \ \blacksquare \end{array}$$

$\Rightarrow \blacksquare^{\bullet} = ?$

- A) 32 B) 25 C) 14 D) 7 E) 2

4.

$$\begin{array}{r} K \ L \ M \\ x \quad N \ 3 \\ \hline \cdot \cdot \cdot \\ + K \ L \ M \\ \hline 3 \ 1 \ 9 \ 8 \end{array}$$

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

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

5.

$$\begin{array}{r} x \ y \ z \\ x \ y \ y \\ \hline x \ y \ z \\ + x \ y \ z \\ \hline x \ 4 \ 0 \ z \end{array}$$

$\Rightarrow x+y+z=?$

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

6.

$$\begin{array}{r} \bullet \ \boxtimes \ \blacktriangle \\ x \quad \star \ 3 \\ \hline \boxtimes \ \boxtimes \ 1 \\ + \star \ 9 \ \boxtimes \\ \hline 3 \ 3 \ 8 \ 1 \end{array}$$

$\Rightarrow \bullet + \boxtimes + \blacktriangle + \star = ?$

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

7. $\frac{x \ K}{L} \frac{x \ L}{M1} \frac{x \ M}{yx} \Rightarrow x+y = ?$
 A) 6 B) 7 C) 8 D) 9 E) 10

10. $\frac{x \ KM}{L \ KM} \frac{x \ KN}{L \ 5 \ N} \Rightarrow K + L + M + N = ?$
 A) 7 B) 9 C) 12 D) 14 E) 15

8. $\frac{x \ 1 \ x}{1 \ 1 \ y} \Rightarrow x.y = ?$
 A) 30 B) 32 C) 63 D) 64 E) 72

11. $\frac{x \ 1 \ x}{1 \ y \ y} \frac{x \ 1 \ z}{1 \ t \ 1} \Rightarrow y.t = ?$
 A) 72 B) 63 C) 56 D) 32 E) 28

9. $\frac{x \ x}{t \ w} (t+w) - (x+y+z) = ?$
 A) 23 B) 14 C) 9 D) 7 E) 5

12. $\frac{x \ KM}{LM} \frac{x \ KN}{PN} \Rightarrow L.P = ?$
 A) 45 B) 54 C) 63 D) 72 E) 81

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

1.
$$\begin{array}{r} x \quad z \\ x \ x \quad x \ z \\ \hline y \quad t \end{array} \Rightarrow \begin{array}{r} y \\ x \ t \\ \hline ? \end{array}$$

- A) 36 B) 13 C) 9 D) 5 E) 4

2.
$$\begin{array}{r} \quad \quad 6 \ 7 \\ x \quad K \ L \\ \hline \cdot \cdot \cdot \\ + \cdot \cdot \cdot \\ \hline 2 \ 8 \ 1 \ 4 \end{array} \Rightarrow K+L=?$$

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

3.
$$\begin{array}{r} \quad \quad \quad ABC \\ x \quad \quad \quad A \\ \hline 6 \ DA \ 4 \end{array} \Rightarrow A+B+C+D=?$$

- A) 26 B) 27 C) 28 D) 29 E) 30

4.
$$\begin{array}{r} \bullet \blacksquare \\ x \quad \quad 7 \\ \hline 1 \ 8 \bullet \end{array} \quad \begin{array}{r} 3 \blacktriangle \\ x \quad \bullet \\ \hline 7 \ 8 \end{array} \Rightarrow \bullet + \blacksquare + \blacktriangle = ?$$

- A) 8 B) 9 C) 13 D) 15 E) 17

5.
$$\begin{array}{r} \blacktriangle \blacktriangle \\ x \quad \bullet \\ \hline \blacktriangle \blacktriangle \end{array} \quad \begin{array}{r} \star \blacktriangle \\ x \ 7 \bullet \\ \hline \cdot \cdot \\ x \cdot \cdot \cdot \\ \hline 1 \ 9 \ 8 \ 8 \end{array} \Rightarrow \bullet + \blacktriangle + \star = ?$$

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

6.
$$\begin{array}{r} \quad \quad \quad KLM \\ x \quad \quad \quad K \\ \hline 8 \ 6 \ NM \end{array} \Rightarrow (K+L) - (M+N) = ?$$

- A) 2 B) 12 C) 18 D) 22 E) 28

7.
$$\begin{array}{r} \star \blacksquare \\ x \quad 9 \\ \hline 73\star \end{array} \Rightarrow \star \blacksquare = ?$$

A) 2 B) 8 C) 64 D) 256 E) 512

8.
$$\begin{array}{r} \quad \quad K L K \\ x \quad \quad L K \\ \hline \quad \bullet \bullet \bullet \bullet \\ + \bullet \bullet \bullet 4 \\ \hline 66861 \end{array} \Rightarrow K.L = ?$$

A) 14 B) 24 C) 34 D) 54 E) 64

9.
$$\begin{array}{r} \quad A B C \\ x \quad C B \\ \hline \bullet \bullet \bullet \bullet \\ + A B C \\ \hline 4774 \end{array} \Rightarrow A+B+C = ?$$

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

10.
$$\begin{array}{r} \quad \quad 1 \blacksquare \\ x \quad \bullet \blacksquare \\ \hline 1 \bullet \bullet \\ + \bullet \bullet \\ \hline \blacksquare 6 \bullet \end{array} \Rightarrow \blacksquare x \bullet = ?$$

A) 4 B) 8 C) 16 D) 32 E) 64

11.
$$\begin{array}{r} \quad \quad K \bullet \bullet L \\ x \quad \quad 135 \\ \hline \bullet \bullet \bullet \bullet \bullet \\ 7404 \\ + \bullet \bullet \bullet \bullet \bullet \\ \hline \bullet \bullet \bullet \bullet \bullet \end{array} \Rightarrow K.L = ?$$

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

12.
$$\begin{array}{r} \quad A B \\ x \quad A B \\ \hline 144 \\ + 18 \\ \hline 324 \end{array} \Rightarrow A+B = ?$$

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

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

1.
$$\begin{array}{r} x \ y \\ x \ y \\ \hline 27 \ y \end{array} \Rightarrow x+y=?$$

- A) 6 B) 4 C) 10 D) 12 E) 24

2.
$$\begin{array}{r} K \ L \\ x \ L \\ \hline 1 \ K \ L \end{array} \Rightarrow K^L=?$$

- A) 2 B) 5 C) 10 D) 25 E) 32

3.
$$\begin{array}{r} X \ Y \ Z \\ x \ T \ 4 \\ \hline 5 \ 1 \ 6 \\ + \cdot \cdot \cdot \\ \hline 8 \ 2 \ 5 \ 6 \end{array} \Rightarrow T^2=?$$

- A) 36 B) 25 C) 16 D) 9 E) 4

4.
$$\begin{array}{r} A \ A \\ x \ A \\ \hline B \ B \end{array} \quad \begin{array}{r} B \ B \\ x \ B \\ \hline K \ L \ M \end{array} \Rightarrow M=A+B$$

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

5.
$$\begin{array}{r} x \ y \ y \\ x \ y \ x \ x \\ \cdot \ y \ y \\ \cdot \cdot \cdot \\ + \ x \ z \ y \ 1 \\ \hline x \ 8 \ 1 \ 2 \ 8 \ y \end{array} \Rightarrow x+y+z=?$$

- A) 9 B) 10 C) 16 D) 17 E) 19

6.
$$\begin{array}{r} K \ L \ M \\ x \ M \ L \ K \\ \hline K \ L \ M \\ 4 \ K \ K \\ + \ 9 \ 5 \ 9 \\ \hline 1 \ 0 \ 0 \ 1 \ 4 \ M \end{array} \Rightarrow K+L+M=?$$

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

7.
$$\begin{array}{r} \\ x \\ \hline \\ + \\ \hline B \end{array} \Rightarrow A \cdot B = ?$$

A) 6 B) 12 C) 18 D) 24 E) 2

10.
$$\begin{array}{r} \\ x \\ \hline \\ + \\ \hline 2 \end{array} \Rightarrow (x+y) - (z+t) = ?$$

A) 1 B) 8 C) 10 D) 11 E) 15

8.
$$\begin{array}{r} \blacksquare \bullet \\ x \\ \hline 4 \end{array} \quad \begin{array}{r} \blacksquare \bullet \\ x \\ \hline 1 \end{array} \Rightarrow \begin{array}{r} \blacksquare \bullet \\ x \\ \hline ? \end{array}$$

A) 1833 B) 564 C) 4731
D) 4371 E) 1383

11.
$$\begin{array}{r} 1 \\ x \\ \hline 1 \end{array} \quad \begin{array}{r} \\ x \\ \hline \\ x \\ \hline 1 \end{array} \Rightarrow (X+Y) - (A+B) = ?$$

A) 17 B) 12 C) 7 D) 5 E) 3

9.
$$\begin{array}{r} \\ x \\ \hline 6 \end{array} \quad \begin{array}{l} N = K - 2 \\ \Rightarrow M \cdot L = ? \end{array}$$

A) 15 B) 20 C) 25 D) 30 E) 35

12.
$$\begin{array}{r} \\ x \\ \hline \\ + 1 \\ \hline 1 \end{array} \Rightarrow K + L + M = ?$$

A) 3 B) 5 C) 7 D) 11 E) 15

1.
$$\begin{array}{r|l} A & B \\ \hline - & 4 \end{array} \quad \begin{array}{r|l} B & C \\ \hline - & 2 \end{array} \Rightarrow A = ?$$

- A) 8C B) 8C+22 C) 8C+23
D) 4C+8 E) 8C+8

2.
$$\begin{array}{r|l} K & L \\ \hline - & 3 \end{array} \quad \begin{array}{r|l} L & M \\ \hline - & 5 \end{array} \Rightarrow \begin{array}{r|l} L & 15 \\ \hline - & ? \end{array}$$

- A) 2 B) 7 C) 9 D) 13 E) 14

3. $\star \geq 0$
$$\frac{\begin{array}{ccc} \bullet & \square & \bullet \\ \hline \bullet & & \square \end{array}}{\begin{array}{ccc} \bullet & \square & \bullet \\ \hline \bullet & & \square \end{array}} = \Delta \star \Delta \Rightarrow (\Delta \star)^2 = ?$$

- A) 10 B) 11 C) 100 D) 101 E) 121

4.
$$\begin{array}{r|l} xyxy & xy \\ \hline - & A \\ \hline & 0 \end{array} \quad \begin{array}{l} A \geq 10 \\ A = ? \end{array}$$

- A) 10 B) 11 C) 100 D) 101 E) 1010

5.
$$\begin{array}{r|l} xyxy4 & xy \\ \hline - & A \\ \hline & B \end{array} \quad \begin{array}{l} A \geq 10 \\ A + B = ? \end{array}$$

- A) 11 B) 15 C) 101 D) 105 E) 1014

6.
$$\begin{array}{r|l} KLMKLM & KLM \\ \hline - & ? \\ \hline & 0 \end{array}$$

- A) 11 B) 101 C) 1001 D) 1010 E) 1111

7.
$$\begin{array}{r} \text{AOA0B} \mid \text{A} \\ - \quad \quad \quad \mid \text{C} \\ \hline \quad \quad \quad \mid 5 \end{array} \quad \begin{array}{l} \text{C} \geq 10 \\ \text{B} < \text{A} \\ \Rightarrow \text{C} + \text{B} = ? \end{array}$$

- A) 11 B) 16 C) 115 D) 1015 E) 10105

8.
$$\begin{array}{r} \text{KOK0L} \mid \text{K} \\ - \quad \quad \quad \mid \text{M} \\ \hline \quad \quad \quad \mid 1 \end{array} \quad \begin{array}{l} \text{M} \geq 10 \\ \text{L} > \text{K} \\ \Rightarrow \text{M} = ? \end{array}$$

- A) 11 B) 101 C) 1010 D) 10100 E) 10101

9.
$$\begin{array}{r} \text{A B A B A B} \mid \text{A B} \\ - \quad \quad \quad \mid \text{x} \\ \hline \quad \quad \quad \mid 0 \end{array} \quad \begin{array}{l} \text{x} \geq 10 \\ \Rightarrow \text{x} = ? \end{array}$$

- A) 101 B) 111 C) 1010 D) 10101 E) 10111

10.
$$\begin{array}{r} \text{KLM} \mid \text{MMM} \\ - \quad \quad \quad \mid \text{M} \\ \hline \quad \quad \quad \mid 68 \end{array} \quad \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

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

11.
$$\begin{array}{r} \text{X Y} \mid \text{Y X} \\ - \text{Y X} \mid \text{Z} \\ \hline \quad \quad \quad \mid \text{T} \end{array} \quad \Rightarrow \text{Z} + \text{T} = ?$$

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

11.
$$\begin{array}{r} \star \star \star \\ \star \end{array} = \begin{array}{r} \bullet \bullet \bullet \\ \bullet \end{array} \Rightarrow \begin{array}{r} \bullet \bullet \bullet \\ - \quad \quad \quad \mid 3 \\ \hline \quad \quad \quad \mid ? \\ \hline \quad \quad \quad \mid 0 \end{array}$$

- A) 39 B) 37 C) 35 D) 33 E) 30

C	D	C	D	E	C	E	E	D	D	A	B
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1.
$$\begin{array}{r|l} \text{K K L} & \text{N P} \\ - 38 & \text{M L} \\ \hline 6L & \\ - 57 & \\ \hline 6 & \end{array} \Rightarrow K+L+M+N+P = ?$$

- A) 10 B) 13 C) 15 D) 17 E) 19

2.
$$\begin{array}{r|l} 529 & \star \\ - \bullet 9 & \star \blacksquare \\ \hline 39 & \\ - \bullet \bullet & \\ \hline 4 & \end{array} \Rightarrow \bullet \blacksquare \star = ?$$

- A) 475 B) 457 C) 547 D) 574 E) 754

3.
$$\begin{array}{r|l} x x x & y z \\ - 48 & y 3 \\ \hline 7x & \\ - 72 & \\ \hline 3 & \end{array} \Rightarrow x+y+z = ?$$

- A) 6 B) 7 C) 9 D) 10 E) 11

4.
$$\begin{array}{r|ll} \text{K L M} & \bullet \bullet \\ - 72 & \text{M M} \\ \hline 9M & \\ - 72 & \\ \hline 21 & \end{array} \Rightarrow K+L+M = ?$$

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

5.
$$\begin{array}{r|ll} \text{X Y Z T} & \bullet Y & Z T \\ - \bullet \bullet \bullet & Y 4 & \\ \hline \bullet \bullet \bullet & & ? \\ - 104 & & \\ \hline 23 & & \end{array} \Rightarrow -YX$$

- A) 16 B) 26 C) 36 D) 71 E) 87

6.
$$\begin{array}{r|l} \text{K L L} & 1L \\ - 1L & 16 \\ \hline 10L & \\ - 102 & \\ \hline 5 & \end{array} \Rightarrow K.L = ?$$

- A) 2 B) 5 C) 7 D) 10 E) 14

7.
$$\begin{array}{r|l} x & y & z & \bullet \\ - & \bullet & \bullet & x \\ \hline & & & y \end{array} \Rightarrow z = ?$$

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

10.
$$\begin{array}{r|l} x & y & z \\ - & & \\ \hline & & 0 \end{array} \begin{array}{l} y & z \\ \hline 7 \end{array} \quad z \geq 0 \Rightarrow x+y+z = ?$$

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

8.
$$\begin{array}{r|l} 5 & A & B \\ - & & \\ \hline & 1 & 2 \end{array} \begin{array}{l} A & B \\ \hline 9 \end{array} \Rightarrow A+B = ?$$

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

11.
$$\begin{array}{r|l} A & B \\ - & \\ \hline & B \end{array} \begin{array}{l} C & \bullet \\ \hline A \end{array} \quad A = C + 1 \Rightarrow \frac{AC}{3} = ?$$

- A) 1 B) 2 C) 7 D) 15 E) 21

9.
$$\begin{array}{r|l} A & B & A \\ - & & \\ \hline & & B \end{array} \begin{array}{l} B & A \\ \hline 2 \end{array} \Rightarrow (A+B)^2 = ?$$

- A) 1 B) 9 C) 10 D) 100 E) 121

12.
$$\begin{array}{r|l} 6 & A & B \\ - & & \\ \hline & 1 & 3 \end{array} \begin{array}{l} A & B \\ \hline 2 & 4 \end{array} \Rightarrow A \cdot B = ?$$

- A) 48 B) 32 C) 16 D) 12 E) 8

E	B	E	E	B	E	B	A	D	A	C	B
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1.
$$\begin{array}{r} \text{KLM} \mid 10 \\ - \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid 9 \\ \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid 4 \end{array} \Rightarrow K+L+M = ?$$

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

4.
$$\begin{array}{r} xyxy \mid xy \\ - \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid z0z \\ \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid 0 \end{array} \Rightarrow z = ?$$

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

2.
$$\begin{array}{r} xyz \mid zyx \\ - zyx \mid A \\ \hline \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid B \end{array} \Rightarrow \frac{A+B}{2} = ?$$

A) 10 B) 9 C) 7 D) 6 E) 5

5.
$$\begin{array}{r} \blacksquare \bullet \blacktriangle \mid 10 \\ - \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid 7 \\ \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid 3 \end{array} \Rightarrow \frac{\bullet + \blacksquare + \blacktriangle}{3} = ?$$

A) 18 B) 12 C) 9 D) 6 E) 3

3.
$$\begin{array}{r} \bullet \blacktriangle \mid \star \\ - \quad \quad \quad \mid \bullet + \blacktriangle \\ \hline \quad \quad \quad \mid 0 \\ \quad \quad \quad \mid \\ \hline \quad \quad \quad \mid 0 \end{array} \Rightarrow \star + \boxtimes = ?$$

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

6.
$$\begin{array}{r} 6yx \mid x9 \\ - \quad \quad \quad \mid 8 \\ \hline \quad \quad \quad \mid 5 \end{array} \Rightarrow x.y = ?$$

A) 3 B) 7 C) 10 D) 21 E) 27

7.
$$\begin{array}{r} \text{K L} \mid \text{A} \\ - \quad \quad \mid \text{K+L} \\ \hline 0 \end{array} \quad \begin{array}{r} \text{L K} \mid \text{B} \\ - \quad \quad \mid \text{K+L} \\ \hline 0 \end{array} \Rightarrow (\text{A+B}) \times 15 = ?$$

A) 11 B) 55 C) 77 D) 165 E) 154

10.
$$\begin{array}{r} 7 \blacktriangle \blacksquare \mid \blacksquare 6 \\ - \quad \quad \mid 8 \\ \hline 1 \end{array} \Rightarrow \blacktriangle + \blacksquare = ?$$

A) 4 B) 6 C) 9 D) 13 E) 15

8.
$$\begin{array}{r} \text{A B C} \mid \text{C B A} \\ - \text{C B A} \mid x \\ \hline \bullet y \bullet \end{array} \Rightarrow y^2 - x = ?$$

A) 8 B) 9 C) 81 D) 80 E) 99

11.
$$\begin{array}{r} 46\text{K} \mid 60 \\ - \quad \quad \mid \text{K} \\ \hline 4\text{K} \end{array} \Rightarrow \text{K}^2 = ?$$

A) 7 B) 9 C) 16 D) 25 E) 49

9.
$$\begin{array}{r} 6 y x \mid x 9 \\ - \quad \quad \mid 7 \\ \hline 5 \end{array} \Rightarrow x \cdot y = ?$$

A) 36 B) 32 C) 16 D) 10 E) 4

12.
$$\begin{array}{r} 5 9 x \mid 7 3 \\ - \quad \quad \mid x \\ \hline y z \end{array} \Rightarrow yz = ?$$

A) 4 B) 14 C) 24 D) 34 E) 44

C	E	C	A	D	D	D	D	C	E	E	B
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BÖLÜM
CHAPTER 2

SAYILAR
(NUMBERS)

TEST-13

1.
$$\begin{array}{r} x \quad y \\ - t \quad z \\ \hline 1 \end{array} \quad + \quad \begin{array}{r} x \\ t \\ \hline 1 \quad 3 \end{array} \Rightarrow x+y+z+t = ?$$

A) 15 B) 16 C) 17 D) 18 E) 19

2.
$$\begin{array}{r} \bullet \bullet \bullet \quad \blacktriangle \\ - \blacksquare \blacksquare \blacksquare \quad \blacktriangle \blacktriangle \blacktriangle \\ \hline \star \star \star \end{array} \quad \bullet - \blacksquare = 1$$

$$\Rightarrow \bullet \cdot \blacktriangle = ?$$

A) 12 B) 10 C) 9 D) 7 E) 5

3.
$$\begin{array}{r} x \ y \ z \quad | \ z \ 4 \\ - x \ z \quad | \ 3 \ 3 \\ \hline x \ z \\ - x \ z \\ \hline 0 \end{array} \Rightarrow y \cdot z = ?$$

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

4.
$$\begin{array}{r} X \ Y \ Y \ X \quad | \ 1 \ Z \\ - X \ X \ T \quad | \ Z \ 8 \\ \hline 1 \ 4 \ X \\ - \bullet \bullet \bullet \\ \hline R \end{array} \Rightarrow X+Y+Z+T+R = ?$$

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

5.
$$\begin{array}{r} X \ Y \ Z \ Y \quad | \ 1 \ T \\ - 1 \ Y \ 1 \quad | \ T \ R \\ \hline Y \ Y \\ - \bullet \bullet \\ \hline 1 \end{array} \Rightarrow R = ?$$

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

6.
$$\begin{array}{r} K \ L \ M \quad | \ K \ M \\ - K \ M \quad | \ 1 \ 1 \\ \hline 5 \ M \\ - K \ 3 \\ \hline 0 \end{array} \Rightarrow L \cdot M = ?$$

A) 27 B) 24 C) 45 D) 15 E) 35

7.
$$\begin{array}{r|l} \text{KLMN} & 1\text{N} \\ - 1 \cdot 1 & \text{NL} \\ \hline \cdot \cdot \cdot & \\ - \cdot \cdot \cdot & \\ \hline & 7 \end{array} \Rightarrow K+L+M+N = ?$$

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

8.
$$\begin{array}{r|l} \text{XYZT} & 1\text{A} \\ - \text{XTT} & \text{AB} \\ \hline \cdot \cdot \cdot & \\ - 108 & \\ \hline & 16 \end{array} \Rightarrow \text{AB} + \text{BA} = ?$$

A) 154 B) 165 C) 176 D) 187 E) 198

9.
$$\begin{array}{r|l} 1235 & 1\text{A} \\ - \text{BBC} & \text{AE} \\ \hline \text{D5} & \\ - \cdot \cdot & \\ \hline & 11 \end{array} \Rightarrow \text{A} + \text{B} + \text{C} + \text{D} + \text{E} = ?$$

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

10.
$$\begin{array}{r|l} \star \triangle \bullet & \\ \times & \square \bullet \\ \hline 17 \square \bullet & \\ + 690 & \\ \hline 86 \square \bullet & \end{array} \Rightarrow \bullet + \square + \triangle + \star = ?$$

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

11.
$$\begin{array}{r|l} \text{AB} & x \\ - & \text{A+B} \\ \hline 0 & \end{array} \quad \begin{array}{r|l} \text{BA} & y \\ - & \text{A+B} \\ \hline 0 & \end{array} \quad \text{A+B} = 14 \Rightarrow (x+y)(\text{A+B}) = ?$$

A) 143 B) 154 C) 168 D) 182 E) 196

12.
$$\begin{array}{r|l} \text{AB} & \text{C+3} \\ - & \text{C} \\ \hline 9 & \end{array} \quad \begin{array}{r|l} \text{AB} & \text{C+4} \\ - & \text{C} \\ \hline 1 & \end{array} \Rightarrow \text{A+B} = ?$$

A) 9 B) 7 C) 12 D) 14 E) 16

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

$$\begin{array}{r}
 K \quad KKK \\
 L \quad LLL \\
 + M \quad + MMM \\
 \hline
 23 \quad ????
 \end{array}$$

- A) 2413 B) 2423 C) 2533
D) 2543 E) 2553

$$\begin{array}{r}
 ABC \quad KLM \quad XYZ \\
 -KLM \quad -XYZ \quad -YZT \\
 \hline
 333 \quad 333 \quad 111
 \end{array}
 \Rightarrow ABC - YZT = ?$$

- A) 444 B) 555 C) 666 D) 777 E) 888

$$\begin{array}{r}
 AB7 \quad | \quad AB \\
 - \quad \quad | \quad C \\
 \hline
 D
 \end{array}
 \quad C \geq 10 \Rightarrow D + C = ?$$

- A) 10 B) 12 C) 15 D) 17 E) 19

$$\begin{array}{r}
 ABC \quad KLMN \quad | \quad 6 \\
 ABC \quad - \quad \quad \quad | \quad 211 \\
 ABC \quad \quad \quad \quad | \quad 2 \\
 + ABC \\
 \hline
 KLMN
 \end{array}$$

$$K \leq B \Rightarrow A+B+C = ?$$

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

$$\begin{array}{r}
 KLM \quad KLM \quad KLM \\
 + XYZ \quad + ABC \quad -XYZ \\
 \hline
 1327 \quad 1110 \quad 415
 \end{array}
 \Rightarrow A+B+C = ?$$

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

$$\begin{array}{r}
 XYZ \quad | \quad T \\
 - \quad \quad | \quad XY \\
 \hline
 4
 \end{array}
 \Rightarrow T+Z = ?$$

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

7.
$$\begin{array}{r|l} AB & B \\ \hline - & CB \\ \hline 0 & \end{array} \quad \begin{array}{r|l} DE & E \\ \hline - & CE \\ \hline 0 & \end{array} \Rightarrow A+D = ?$$

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

10.
$$\begin{array}{r} xx \\ + yy \\ \hline zz0 \end{array} \quad \begin{array}{r} x \\ - z \\ \hline 5 \end{array} \Rightarrow x.y = ?$$

A) 28 B) 24 C) 30 D) 18 E) 36

8.
$$\begin{array}{r|l} A & B \\ \hline - & 2 \\ \hline 5 & \end{array} \quad \begin{array}{r|l} C & B \\ \hline - & 4 \\ \hline 3 & \end{array} \Rightarrow \begin{array}{r|l} B \geq 10 & \\ \hline A+C & B \\ \hline ? & \end{array}$$

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

11.
$$\begin{array}{r|l} A & x \\ \hline - & (n+2) \\ \hline 4 & \end{array} \quad \begin{array}{r|l} A & x+1 \\ \hline - & n \\ \hline 2x-9 & \end{array} \Rightarrow n = ?$$

A) 4 B) 7 C) 9 D) 12 E) 13

9.
$$\begin{array}{r|l} K & L \\ \hline - & 4 \\ \hline 3 & \end{array} \quad \begin{array}{r|l} M & L \\ \hline - & 3 \\ \hline 5 & \end{array} \quad \begin{array}{r|l} K & M \\ \hline - & 1 \\ \hline 6 & \end{array}$$

$\Rightarrow K = ?$

A) 43 B) 38 C) 35 D) 28 E) 24

12.
$$\begin{array}{r} x \quad K L \\ \quad \quad M \\ \hline 1 \ 4 \ 4 \end{array} \quad \begin{array}{r} x \quad K L \\ \quad \quad N \\ \hline 1 \ 6 \ 8 \end{array} \quad \begin{array}{r} K L \\ x M N \\ \hline ? \end{array}$$

A) 1508 B) 1608 C) 1618
D) 1518 E) 1408

E	D	D	B	D	C	A	E	C	B	E	B
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1. $\frac{5894}{K} = 842 \Rightarrow K = ?$

- A) 2 B) 3 C) 5 D) 7 E) 9

2. $\frac{xyz - zyx}{xz - zx} = ?$

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

3.
$$\begin{array}{r} AA \\ + CC \\ \hline 165 \end{array} \quad \begin{array}{r} AB \\ - BA \\ \hline 9 \end{array} \Rightarrow \begin{array}{r} C \\ + A \\ \hline ? \end{array}$$

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

4.
$$\begin{array}{r|l} KLMKLM5 & KLM \\ - & A \\ \hline & B \end{array} \quad A+B \Rightarrow = ?$$

- A) 10015 B) 1006 C) 10060
D) 10016 E) 1015

5.
$$\begin{array}{r} x \ y \\ y \ z \\ + \ z \ t \\ \hline 1 \ z \ t \end{array} \Rightarrow (x+y) \cdot (y+z) = ?$$

- A) 9 B) 10 C) 90 D) 99 E) 100

6.
$$\begin{array}{r} K \\ + L \\ \hline 13 \end{array} \quad \begin{array}{r} K \\ - L \\ \hline M \end{array} \quad \begin{array}{r} K \\ + M \\ \hline 8 \end{array} \Rightarrow K.L.M = ?$$

- A) 42 B) 56 C) 63 D) 54 E) 65

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

- A) 2K B) 3K C) $\frac{K}{2}$ D) $\frac{3K}{4}$ E) $\frac{4K}{3}$

8.
$$\begin{array}{r} AA \\ + BB \\ + CC \\ \hline 165 \end{array} \Rightarrow \begin{array}{l} B-A=2.A \\ \max(c) = ? \end{array}$$

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

9.
$$\begin{array}{r} 45K \overline{)70} \\ - \underline{\quad}K \\ \hline LK \end{array} \Rightarrow L \cdot K = ?$$

- A) 3 B) 6 C) 15 D) 18 E) 24

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

- A) 3M B) 4M C) $\frac{4M}{3}$ D) $\frac{M}{3}$ E) $\frac{3M}{4}$

11.
$$\frac{K}{9} + \frac{L}{M} = \frac{K}{6} + \frac{M}{6} \Rightarrow K.L.M = ?$$

- A) 10 B) 15 C) 20 D) 25 E) 30

12.
$$\frac{x}{y} \cdot \frac{x}{y} + \frac{y}{7} \cdot \frac{y}{7} = (y+z)^x = ?$$

- A) 7 B) 9 C) 16 D) 49 E) 125

D	C	C	A	C	A	E	D	D	C	C	D
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1.
$$\begin{array}{r} \text{K L} \\ + \text{LM} \\ \hline \text{K K K} \end{array} \Rightarrow \text{K} + \text{L} + \text{M} = ?$$

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

4.
$$\begin{array}{r} \text{A} | \text{B} \\ - \quad | 4 \\ \hline 8 \end{array} \quad \begin{array}{r} \text{A} + 61 | \text{B} \\ - \quad | 7 \\ \hline 9 \end{array} \Rightarrow \text{A} = ?$$

- A) 80 B) 84 C) 85 D) 87 E) 88

2.
$$\begin{array}{r} \star \\ \times \star \\ \hline \bullet \end{array} \quad \begin{array}{r} \bullet \\ \times \bullet \\ \hline \blacksquare \triangle \end{array} \quad \triangle \neq 1$$

$$\star + \bullet + \blacksquare + \triangle = ?$$

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

5.
$$\begin{array}{r} \text{A} | \text{B} \\ - \quad | 12 \\ \hline 7 \end{array} \quad \begin{array}{r} \text{B} | \text{C} \\ - \quad | 2 \\ \hline 5 \end{array} \quad \begin{array}{r} \text{A} | \text{C} \\ - \quad | 33 \\ \hline 4 \end{array}$$

$\Rightarrow \text{C} = ?$

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

3.
$$\begin{array}{r} 7\text{K}3\text{L} \\ + \quad \text{M} \\ \hline 65115 \end{array} \quad \begin{array}{r} 8\text{K}4\text{L} \\ + \quad \text{N} \\ \hline 49470 \end{array} \Rightarrow \text{M} \cdot \text{N} = ?$$

- A) 45 B) 54 C) 63 D) 72 E) 81

6.
$$\frac{xy + yx}{xy - yx} = \frac{143}{45} \Rightarrow x \cdot y = ?$$

- A) 36 B) 40 C) 42 D) 54 E) 60

7.
$$\begin{array}{r} ACEFDB2 \\ + BDFECA9 \\ \hline xyxyxyx \end{array} \Rightarrow \frac{y = x + 1}{A+B+C+D+E+F} = \frac{x+y}{x+y} = ?$$

A) 3 B) 6 C) 11 D) 12 E) 36

10.
$$\frac{xyxy}{xy} + \frac{xxx}{x} + \frac{yy}{y} = ?$$

A) 101 B) 202 C) 203 D) 213 E) 223

8.
$$\begin{array}{r} AAAAA \\ + BBBBB \\ \hline CAAAA5 \end{array} \Rightarrow A+B+C = ?$$

A) 9 B) 10 C) 15 D) 16 E) 17

11.
$$\begin{array}{r} ABB \\ - BAA \\ \hline 267 \end{array} \Rightarrow \max(A+B) = ?$$

A) 15 B) 13 C) 11 D) 9 E) 7

9.
$$\begin{array}{r} KL \\ KL \\ + KL \\ \hline 23K \end{array} \Rightarrow K.L = ?$$

A) 27 B) 36 C) 45 D) 54 E) 63

12.
$$\begin{array}{r} ABC \\ - CBA \\ \hline 495 \end{array} \Rightarrow \min(A) = ?$$

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

D	A	B	E	B	A	C	D	E	E	A	D
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BÖLÜM

CHAPTER

3

İŞLEMLER

(OPERATIONS)

1. I. $a \star b = \frac{a^2 - b^2}{2}$

II. $6 \star 4 = ?$

- A) 23 B) 28 C) 20 D) 12 E) 10

2. I. $a \bullet b = a^3 - b^3$
II. $a \star b = a^2 + b^2$

$(5 \bullet 4) - (6 \star 5) = ?$

- A) 0 B) 32 C) 61 D) 228 E) 250

3. I. $x \checkmark y = x^{y-1}$
II. $x \times y = y^{x-1}$
III. $x * y = x + y$

$(3 \checkmark 4) * (3 \times 5) = ?$

- A) 2 B) 25 C) 27 D) 42 E) 52

4. I. $x \Delta y = \frac{x}{y}$

II. $x \nabla y = \frac{y}{x}$

III. $x \bullet y = \frac{x \cdot y}{2}$

$(16 \Delta 3) \bullet (4 \nabla 3) = ?$

- A)
- $\frac{36}{27}$
- B)
- $\frac{22}{27}$
- C) 2 D) 12 E) 32

5. I. $x \otimes y = (x+y)^{-1}$

II. $x \boxtimes y = (x+y)^2$

III. $x \Delta y = x \cdot y$

$(3 \otimes 4) \Delta (3 \boxtimes 4) = ?$

- A) 7 B) 12 C) 14 D) 16 E) 24

6. I. $x + y = \sqrt{x+y}$

II. $x \times y = \sqrt[3]{x-y}$

III. $x \checkmark y = \sqrt[4]{x \cdot y}$

$(43 + 21) \checkmark (17 \times 9) = ?$

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

7. I. $x \star y = \sqrt[3]{x} + \sqrt[3]{y}$

II. $x \oplus y = \sqrt{x} - \sqrt{y}$

III. $x \boxtimes y = \sqrt{x} \cdot \sqrt{y}$

$(1 \star 8) \boxtimes (225 \oplus 9) = ?$

- A) 3 B) 4 C) 6 D) 12 E) 18

8. I. $x \bullet y = x^{-1}$

II. $x \blacktriangle y = y^{-1}$

III. $x \blacksquare y = \sqrt{\frac{x}{y}}$

$(12 \bullet 24) \blacksquare (25 \blacktriangle 48) = ?$

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

9. I. $a \star b = (a-1) \cdot (b+1)$

II. $a \bullet b = (a+1) \cdot (b+1)$

III. $a \blacktriangle b = \sqrt{ab}$

$(9 \star 4) \blacktriangle (4 \bullet 1) = ?$

- A) 16 B) 80 C) 160 D) 20 E) 40

10. I. $a \star b = \frac{1}{a+b}$

II. $a \bullet b = \frac{a-b}{a+b}$

III. $a \blacktriangle b = \frac{a}{b}$

$5 \cdot [(3 \star 4) \blacktriangle (6 \bullet 1)] = ?$

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

11. I. $a \heartsuit b = \frac{a}{5} + \frac{b}{3}$

II. $a \star b = \frac{a}{b}$

$(30 \heartsuit 30) \star (15 \heartsuit 15) = ?$

- A) 15 B) 10 C) 9 D) 5 E) 2

12. I. $a \heartsuit b = \frac{a}{b}$

II. $a \triangle b = \frac{b^2}{a^2}$

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

$(42 \heartsuit 7) \star (4 \triangle 8) = ?$

- A)
- $\frac{42}{11}$
- B)
- $\frac{20}{11}$
- C)
- $\frac{32}{11}$
- D)
- $\frac{6}{11}$
- E) 0

E	A	E	C	A	B	C	B	D	A	E	B
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1. I. $a \square b = \sqrt[3]{b}$
 II. $a \triangle b = \sqrt[3]{a}$
 $32 \triangle (3 \square 125) = ?$
 A) 1 B) 2 C) 3 D) 4 E) 5

2. I. $a \star b = \frac{b^2}{a^2}$
 II. $a \bullet b = \frac{2a+3b}{3}$
 $15 \bullet (4 \star 8) = ?$
 A) 11 B) 12 C) 13 D) 14 E) 15

3. I. $a \triangle b = \sqrt{3a+4b}$
 II. $a \boxtimes b = \sqrt{a^2-b^2}$
 III. $a \oplus b = \sqrt{ab+9}$
 $(3 \triangle 4) \oplus (17 \boxtimes 15) = ?$
 A) 5 B) 6 C) 7 D) 8 E) 9

4. $a \otimes b = a^2 - 2ab + b^2$
 $27 \otimes 25 = ?$
 A) 1 B) 2 C) 3 D) 4 E) 5

5. I. $a \blacksquare b = \frac{ab}{\left(\frac{a}{3}\right)\left(\frac{b}{4}\right)}$
 II. $a \blacktriangle b = \frac{\left(\frac{a}{5}\right) + \left(\frac{6}{b}\right)}{\sqrt{a-b}}$
 III. $a \bullet b = \frac{a \cdot b}{6}$
 $(12 \blacksquare 8) \bullet (25 \blacktriangle 3) = ?$
 A) 16 B) 11 C) 9 D) 7 E) 5

6. I. $a \heartsuit b = \frac{a}{b} + \frac{b}{a}$
 II. $a \spadesuit b = \frac{a+b}{2b-1}$
 III. $a \clubsuit b = ab$
 $(5 \heartsuit 4) \clubsuit (19 \spadesuit 21) = ?$
 A) 1 B) 2 C) $\frac{2}{41}$ D) $\frac{21}{41}$ E) 4

7. I. $a \blacksquare b = a^2 + 4b - ab$

II. $7 \blacksquare x = 40$

$x = ?$

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

8. I. $x \odot y = x^3 + y^2 + 17$

II. $x \odot 4 = 158$

$x^2 = ?$

- A) 1 B) 5 C) 16 D) 25 E) 36

9. I. $a \star b = \frac{a}{2} + \frac{9}{b} + 10$

II. $4 \star 3 = 8 \star x$

$x = ?$

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

10. $x \boxtimes y = x^3 - 3x^2y + 3xy^2 - y^3$

$256 \boxtimes 251 = ?$

- A) 1 B) 8 C) 27 D) 64 E) 125

11. $a \blacktriangle b = a^2 + 6b$

$(5 \blacktriangle 6) = 1 \blacktriangle x$

$x = ?$

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

12. $x \triangle y = x^2 + 4y$

$4 \triangle 6 = 2 \triangle x$

$x = ?$

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

B	D	C	D	D	B	C	D	A	D	E	B
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1. I. $3a \blacktriangle 4b = a + b$
II. $2a \blacksquare 5b = a.b$
III. $a \bullet b = b - a$

$$(18 \blacktriangle 24) \bullet (14 \blacksquare 10) = ?$$

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

2. I. $\frac{a}{3} \star \frac{b}{5} = a.b$
II. $\frac{a}{2} \odot \frac{b}{4} = 2.(a+b)$
III. $2a \blacktriangle 7b = a - b$

$$(3 \star 2) \blacktriangle (4 \odot 5) = ?$$

- A) 37 B) 36 C) 35 D) 34 E) 33

3. I. $a^2 \oplus b^2 = a + b$
II. $a^3 \heartsuit b^3 = a.b$
III. $\left(\frac{a}{3}\right) * \left(\frac{b}{2}\right) = \frac{a}{b}$

$$(196 \oplus 36) * (125 \heartsuit 8) = ?$$

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

4. I. $a^2 \bullet b^3 = a.b^2$
II. $a^3 \blacktriangle b^2 = a^2.b$
III. $a \square b = (b - a)^2$

$$(25 \bullet 8) \square (64 \blacktriangle 4) = ?$$

- A) 81 B) 100 C) 121 D) 144 E) 169

5. I. $4a \odot b^3 = \frac{a+b}{2}$
II. $a^2 \blacktriangle 3b = \frac{a-b}{3}$
III. $a \diamond b = \sqrt{a.b}$

$$(20 \odot 27) \diamond (225 \blacktriangle 9) = ?$$

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

6. I. $\frac{2}{a} \star \frac{3}{b} = 10a.b$

II. $\frac{4}{a} \oplus \frac{5}{b} = 5.(a+b)$

III. $\frac{a}{2} \heartsuit \frac{b}{2} = \sqrt{a+b}$

$$(4 \star 5) \heartsuit (6 \oplus 15) = ?$$

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

7. I. $4x \star \frac{3y}{2} = x^2 + y^2$

II. $\frac{x^2}{3} \blacksquare \frac{y^3}{2} = x \cdot y$

III. $x \odot y = \sqrt{x-y}$

$(12 \star 9) \odot (27 \blacksquare 32) = ?$

- A) 1 B) 2 C) 3 D) 7 E) 9

8. I. $(2a-1) \heartsuit (3b+4) = a \cdot b$

II. $(3a-7) \diamond (2b+3) = a+b$

$[(-5) \heartsuit (-8)] \diamond 17 = ?$

- A) 5 B) 7 C) 9 D) 11 E) 12

9. I. $\left(\frac{2x+5}{3}\right) \star \left(\frac{4y-5}{3}\right) = \sqrt{x \cdot y}$

II. $\left(\frac{3x-2}{5}\right) \blacksquare \left(\frac{3y-4}{5}\right) = \frac{x+y}{6}$

$(3 \star 9) + (2 \blacksquare 4) = ?$

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

10. I. $\sqrt{a} \star \sqrt{b} = a+b$

II. $\sqrt[3]{a} \otimes \sqrt[3]{b} = a-b$

III. $\frac{a}{2} \oplus \frac{b}{2} = (a+b) \cdot 2$

$(2 \star 4) \oplus (3 \otimes 2) = ?$

- A) 19 B) 20 C) 39 D) 78 E) 156

11. I. $\sqrt[3]{3a+1} \bullet \sqrt[3]{2b+4} = \frac{a}{3} - b$

II. $\sqrt{3a+4} \blacksquare \sqrt{4b+9} = 2a - \frac{b}{2}$

$(7 \bullet 4) + (5 \blacksquare 7) = ?$

- A) 8 B) 9 C) 14 D) 17 E) 22

12. I. $2a^3 \star 3b^2 = \frac{a \cdot b}{2}$

II. $\sqrt[3]{2a} \blacksquare \sqrt{3b} = 3 \cdot \frac{a}{b}$

III. $\sqrt{a} \triangle \sqrt{b} = \frac{a-b}{2}$

$(128 \star 108) \triangle (4 \square 6) = ?$

- A) 144 B) 64 C) 80 D) 40 E) 20

B	A	C	D	A	B	C	E	C	E	D	D
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1. I. $4(x \star y) = x^2 - y^2$

II. $(12 \star 8) = ?$

- A) 80 B) 40 C) 20 D) 10 E) 5

2. I. $x \checkmark y = 4x + 5y - 4(x \checkmark y)$

II. $(10 \checkmark 9) = ?$

- A) 95 B) 85 C) 45 D) 19 E) 17

3. $x \star y \neq y \star x$

I. $x \star y = 3x + 2y - 2(y \star x)$

II. $(15 \star 3) = ?$

- A) 9 B) 11 C) 13 D) 15 E) 17

4. I. $\frac{1}{x \odot y} = \frac{1}{x} - \frac{1}{y}$

II. $(4 \odot 5) = ?$

- A) 1 B) 9 C) 20 D)
- $\frac{1}{9}$
- E)
- $\frac{1}{20}$

5. I. $\frac{x+y+2}{x \boxtimes y} = \frac{x \cdot y}{x^2 + y^2}$

II. $(6 \boxtimes 4) = ?$

- A) 52 B) 36 C) 26 D) 23 E) 13

6. I. $\frac{a-b}{a+b} = \frac{a \heartsuit b}{a \cdot b}$

II. $(10 \heartsuit 6) = ?$

- A) 60 B) 30 C) 15 D) 12 E) 6

7. I. $3 + \frac{12}{6 - \frac{18}{x \bullet y}} = 2x - y$

II. $(5 \bullet 4) = ?$

- A) 9 B) 6 C) 3 D) 2 E) 1

8. I. $\frac{42}{8 - \frac{10}{3 + \frac{2}{x \blacksquare y}}} - 3 = \left(\frac{x}{y}\right)^2$

II. $(12 \blacksquare 6) = ?$

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) 3

9. I. $\frac{4 + \frac{a \blacktriangle b}{2}}{(a \blacktriangle b) - 2} = 2a - 5b$

II. $(21 \blacktriangle 8) = ?$

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

10. I. $\frac{\frac{(a \oplus b)^2}{2} + 3}{105} = \frac{1}{a^2 - 3b}$

II. $(3 \oplus 2) = ?$

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

11. I. $\frac{4 + \frac{2 + \frac{(a \odot b)}{3}}{5}}{2} = 3a - 5b$

II. $(11 \odot 5) = ?$

- A) 154 B) 162 C) 168 D) 174 E) 188

12. $x \boxtimes y \neq y \boxtimes x$

I. $x \boxtimes y = x^2 + 2y + 2 (y \boxtimes x)$

II. $(9 \boxtimes 3) = ?$

- A) -87 B) -47 C) 47 D) 87 E) 141

C	E	A	C	C	C	A	B	B	C	D	B
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1. I. $x \odot y = \begin{cases} x^2 + y^2, & x \leq y \\ x^2 - y^2, & x > y \end{cases}$

II. $(9 \odot 8) \odot (2 \odot 3) = ?$

- A) 120 B) 169 C) 189 D) 289 E) 290

2. I. $x \boxtimes y = \begin{cases} x.y, & x < y \\ \frac{x}{y}, & x \geq y \end{cases}$

II. $(6 \boxtimes 10) \boxtimes (15 \boxtimes 3) = ?$

- A) 60 B) 40 C) 15 D) 12 E) 10

3. I. $x \heartsuit y = \begin{cases} x^2.y, & x < y \\ x.y, & x = y \\ xy^2, & x > y \end{cases}$

II. $(2 \heartsuit 4) \heartsuit (16 \heartsuit 1) = ?$

- A) 256 B) 128 C) 64 D) 32 E) 16

4. I. $a \star b = \begin{cases} \frac{b}{a}, & a < b \\ a.b, & a = b \\ \frac{a}{b}, & a > b \end{cases}$

II. $(64 \star 16) \star (8 \star 32) = ?$

- A) 36 B) 25 C) 16 D) 9 E) 4

5. I. $a * b = \begin{cases} 6(b-a), & a < b \\ 4(a+b), & a = b \\ 2(a-b), & a > b \end{cases}$

II. $(2 * 2) * (2 * 3) = ?$

- A) 60 B) 40 C) 36 D) 22 E) 20

6. I. $x \oplus y = \begin{cases} \frac{x^2 + y^2}{2}, & x < y \\ \frac{x^2 - y^2}{2}, & x \geq y \end{cases}$

II. $(4 \oplus 6) - (9 \oplus 7) = ?$

- A) 52 B) 32 C) 26 D) 16 E) 10

7. I. $(x, y) \odot (z, t) = (x.z, y.t)$
 II. $(x, y) \boxtimes (z, t) = (x+y, z+t)$
 $[(2, 3) \odot (4, 5)] \boxtimes (6, 7) = ?$
 A) (14, 22) B) (23, 13) C) (15, 21)
 D) (48, 105) E) (14, 13)

8. I. $(x, y) \star (z, t) = [\max(x^2, z^2), \min(y^2, t^2)]$
 II. $(x, y) \bullet (z, t) = \left(\frac{x}{z}, \frac{y}{t} \right)$
 $[(4, -7) \star (2, 6)] \bullet (8, 9) = ?$
 A) (2, 7) B) (2, 5) C) (3, 4)
 D) (2, 4) E) (3, 7)

9. I. $(a, b) \blacktriangle (c, d) = (a-d, b-c)$
 II. $(a, b) \blacklozenge (c, d) = (2a+3c, 3b+2d)$
 $[(8, 7) \blacktriangle (4, 2)] \blacklozenge (9, 5) = ?$
 A) (39, 12) B) (39, 19) C) (12, 19)
 D) (12, 20) E) (39, 21)

10. I. $(x, y) \bullet (z, t) = \left(\frac{x+y}{3}, \frac{z-t}{4} \right)$
 II. $(x, y) \blacksquare (z, t) = \left(\frac{18}{x+y}, \frac{20}{z-t} \right)$
 $[(2, 7) \bullet (15, 3)] \blacksquare (9, 5) = ?$
 A) (3, 4) B) (6, 4) C) (6, 5)
 D) (3, 5) E) (3, 7)

11. I. $(a, b) \blacktriangle (c, d) = (3a-2, 2c+1)$
 II. $(a, b) \blacksquare (c, d) = (b^2, d-1)$
 $[(4, 2) \blacksquare (5, 3)] \blacktriangle (6, 4) = ?$
 A) (121, 3) B) (10, 13) C) (121, 5)
 D) (10, 4) E) (9, 3)

12. I. $(a, b) \oplus (c, d) = (a^b, c^d)$
 II. $(a, b) \star (c, d) = (a.d, b.c)$
 $[(2, 3) \oplus (3, 2)] \star (6, 7) = ?$
 A) (56, 54) B) (72, 42) C) (63, 48)
 D) (36, 42) E) (54, 56)

A	D	A	C	E	E	B	D	B	D	B	A
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1. I. $3a \star 4b = a + b$
II. $2a \bullet 5b = a^2 + b^2$
III. $5a \triangle 6b = a \cdot b$
 $(12 \star 16) \bullet (25 \triangle 12) = ?$
A) 16 B) 20 C) 25 D) 36 E) 40

2. I. $a^2 \bullet b^2 = a - b$
II. $a^3 \star b^3 = a \cdot b$
III. $2a \square 7b = (a + b)^2$
 $(196 \bullet 144) \square (343 \star 64) = ?$
A) 4 B) 9 C) 16 D) 25 E) 36

3. I. $a^3 \oplus b = \frac{b}{a}$
II. $a \boxtimes b^3 = \frac{a}{b}$
III. $a^2 \triangle b^2 = \frac{a \cdot b}{2}$
 $(64 \oplus 64) \triangle (75 \boxtimes 27) = ?$
A) 40 B) 20 C) 10 D) 5 E) 2

4. I. $8x \checkmark 9y = x \cdot y - (x + y)$
II. $7x \times 6y = x \cdot y + (x - y)$
III. $x - 2y = \frac{x+y}{4}$
 $(24 \checkmark 45) - (42 \times 24) = ?$
A) 4 B) 5 C) 6 D) 7 E) 8

5. I. $\frac{x}{3} \square \frac{y}{5} = \frac{x+y}{3}$
II. $\frac{x}{4} \circ \frac{y}{6} = x - \frac{y}{3}$
III. $x^2 \triangle y^3 = x \cdot y$
 $(6 \square 6) \triangle (3 \circ 2) = ?$
A) 12 B) 10 C) 8 D) 6 E) 4

6. I. $3a^2 \heartsuit 4b^2 = \frac{a \cdot b}{2} + 1$
II. $2a^3 \diamond 3b^3 = a \cdot b - 4$
III. $a \clubsuit b = \frac{a}{b}$
 $(75 \heartsuit 64) \clubsuit (54 \diamond 375) = ?$
A) 0 B) 1 C) 2 D) 3 E) 4

7. I. $\frac{1}{a} \square \frac{1}{b} = 24.a.b$

II. $2a \circ 3b = 8.(a+b)$

III. $4a \triangle 6b = 30(a-b)$

$(3 \square 4) \triangle (\frac{1}{3} \circ \frac{1}{4}) = ?$

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

8. I. $\frac{x}{3} \triangle \frac{y}{5} = \frac{5x}{2} + \frac{3y}{5}$

II. $\frac{2x}{3} \bullet \frac{4y}{3} = \frac{x}{4} + \frac{y}{3}$

III. $x \square y = \frac{x-y}{3}$

$(2 \triangle 4) \square (8 \bullet 12) = ?$

- A) 12 B) 10 C) 8 D) 7 E) 6

9. I. $(3x - 1) \bullet (4y + 2) = x.y$

II. $(2x + 5) \blacktriangle (5y - 7) = \frac{3y}{x}$

III. $(5x + 5) \blacksquare (3y - 8) = x.y$

$(11 \bullet 22) \blacksquare (17 \blacktriangle 33) = ?$

- A) 24 B) 18 C) 12 D) 8 E) 6

10. I. $\sqrt{a} \star \sqrt{b} = \frac{a-b}{3}$

II. $\sqrt[3]{a} \heartsuit \sqrt[3]{b} = \sqrt{\frac{a-b}{2}}$

III. $\frac{a}{5} \oplus \frac{b}{3} = \sqrt{a+b}$

$(5 \star 4) \oplus (5 \heartsuit 3) = ?$

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

11. I. $(a + 1) \oplus (b + 3) = a.b$

II. $2a \triangle \frac{b}{5} = \frac{a+b}{4}$

III. $(a^2 - 1) \oplus (b^2 - 1) = \frac{a}{b}$

$(143 \oplus 35) \triangle (4 \oplus 8) = ?$

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

12. I. $3a^2 \blacktriangle 4b^2 = a.b$

II. $2a^3 \bullet 5b^3 = a + b$

III. $\frac{a}{8} \blacksquare \frac{b}{2} = \frac{a}{b}$

$(686 \bullet 135) \blacksquare (48 \blacktriangle 100) = ?$

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

B	D	C	B	C	B	E	D	C	E	A	B
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1. I. $x \odot y = (x \blacksquare y) + 3$
 II. $x \blacksquare y = (x \blacktriangle y) \cdot 2 + 7$
 III. $x \blacktriangle y = x \cdot y + 5$
 $(4 \odot 5) = ?$
 A) 50 B) 60 C) 70 D) 80 E) 90

2. I. $a \star b = (a \heartsuit b) \cdot 4$
 II. $a \heartsuit b = (a \blacklozenge b) \cdot 3 + 5$
 III. $a \blacklozenge b = a + b + 2$
 $(4 \star 5) = ?$
 A) 132 B) 142 C) 152 D) 162 E) 172

3. I. $x \star y = (x \circ y) + x^2$
 II. $x \circ y = (x \boxtimes y) + y^2$
 III. $x \boxtimes y = x^2 + y^2 + xy$
 $(7 \star 6) = ?$
 A) 202 B) 212 C) 222 D) 252 E) 242

4. I. $a \oplus b = \frac{a \otimes b}{4}$
 II. $a \otimes b = \frac{a \triangle b}{5}$
 III. $a \triangle b = \frac{a+b}{6}$
 $(863 \oplus 457) = ?$
 A) 13 B) 12 C) 11 D) 10 E) 9

5. I. $x \blacktriangle y = (2x \blacksquare 4y)$
 II. $x \blacksquare y = \left(\frac{x}{3} \square \frac{y}{5} \right)$
 III. $x \square y = \frac{x \cdot y}{2}$
 $(6 \blacktriangle 10) = ?$
 A) 64 B) 32 C) 16 D) 8 E) 4

6. I. $a \times b = (a^2 \sqrt{b}) + 9$
 II. $a \sqrt{b} = (a \ast b) \cdot 3 + 7$
 III. $a \ast b = \frac{a+b}{2}$
 $(5 \times 7) = ?$
 A) 64 B) 54 C) 48 D) 44 E) 41

7. I. $x \heartsuit y = x^3 \spadesuit y^3$
 II. $x \diamond y = \frac{x}{8} \clubsuit \frac{y}{6}$
 III. $x \spadesuit y = \frac{\sqrt{x} + \sqrt{y}}{2}$
 $(8 \heartsuit 6) = ?$
 A) 7 B) 14 C) 28 D) 56 E) 102

8. I. $a \Delta b = a^2 \boxtimes b$
 II. $a \boxtimes b = a \otimes b^2$
 III. $a \otimes b = 4a \nabla 3b$
 IV. $a \nabla b = \sqrt[3]{a} + \sqrt[3]{b}$
 $(4 \Delta 3) = ?$
 A) 3 B) 4 C) 7 D) 12 E) 24

9. I. $x * y = (x + 5) \blacktriangle (3y + 3)$
 II. $x \blacktriangle y = (4x + 6) \bullet (2x - 5)$
 III. $x \bullet y = \frac{x}{3} + \frac{y}{5}$
 $(7 * 9) = ?$
 A) 30 B) 29 C) 28 D) 27 E) 26

10. I. $a \boxtimes b = (a \cdot b \otimes \frac{b}{4})$
 II. $a \otimes b = \frac{a}{2} \blacktriangle 8 \cdot b$
 III. $a \blacktriangle b = \frac{a}{3} + \frac{b}{4}$
 $(5 \boxtimes 12) = ?$
 A) 22 B) 20 C) 18 D) 16 E) 14

11. I. $x \times y = (\frac{x}{y} \checkmark \frac{y}{x})$
 II. $x \checkmark y = 10x + 12y$
 III. $x + y = \frac{x - y}{2}$
 $(3 \times 5) = ?$
 A) 14 B) 13 C) 7 D) -7 E) -14

12. I. $a \star b = \frac{2a}{5} \boxtimes \frac{3a}{4}$
 II. $a \otimes b = \frac{a^2}{2} \star \frac{b^2}{3}$
 III. $a \boxtimes b = \frac{a \cdot \sqrt{b}}{2}$
 $(5 \otimes 8) = ?$
 A) $5\sqrt{2}$ B) $10\sqrt{2}$ C) 5 D) 10 E) 20

B	C	B	C	C	A	A	C	B	D	D	D
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1. I. $(x \odot y) + (x \blacksquare y) = 3x + y - 1$
II. $(x \odot y) - (x \blacksquare y) = x + 2y - 3$
 $(3 \odot 4) \times (3 \blacksquare 4) = ?$
A) 10 B) 14 C) 16 D) 18 E) 20

2. I. $2(x \blacksquare y) + 3(x \odot y) = x + y + 4$
II. $(x \blacksquare y) - 2(x \odot y) = 4(y - x)$
 $(5 \blacksquare 3) + (5 \odot 3) = ?$
A) 4 B) 5 C) 6 D) 7 E) 8

3. I. $3(x \star y) - 2(x \heartsuit y) = \frac{x+y}{5}$
II. $2(x \star y) + 3(x \heartsuit y) = (y^2 - x)$
 $(6 \star 4) + (6 \heartsuit 4) = ?$
A) 2 B) 3 C) 4 D) 5 E) 6

4. I. $2(a \star b) + (b^2 \boxtimes a^2) = 2a + b$
II. $(a \star b) + 3(b^2 \boxtimes a^2) = b^2 + 2a - 1$
 $(3 \star 2) \times (4 \boxtimes 9) = ?$
A) 2 B) 3 C) 4 D) 5 E) 6

5. I. $4(a \blacktriangle b) + 3(b \odot a) = a \cdot b + 2$
II. $2(a \blacktriangle b) - (b \odot a) = \frac{a-b^2}{2}$
 $(7 \blacktriangle 3) - (3 \odot 7) = ?$
A) -3 B) -2 C) 2 D) 3 E) 7

6. I. $4(a \boxtimes b) + 5(4b \boxtimes 3a) = b^2 + a$
II. $3(a \boxtimes b) + 4(4b \boxtimes 3a) = a^2 \cdot b + 1$
 $(2 \boxtimes 5) + (20 \boxtimes 6) = ?$
A) 8 B) 7 C) 6 D) 5 E) 4

7. I. $\frac{1}{x \star y} - \frac{3}{x \otimes y} = \frac{1}{x \cdot y + 2}$
 II. $-\frac{1}{x \star y} + \frac{4}{x \otimes y} = -\frac{1}{x+y}$

$(4 \star 3) + (4 \otimes 3) = ?$

- A) -21 B) -14 C) -7 D) 7 E) 21

8. I. $\frac{2}{a \boxtimes b} + \frac{3}{a \otimes b} = a + b - 2$

II. $\frac{4}{a \boxtimes b} - \frac{1}{a \otimes b} = (a - b) \cdot 4$

$-3(5 \boxtimes 6) + 22(5 \otimes 6) = ?$

- A) -14 B) -7 C) 7 D) 14 E) 21

9. I. $\frac{x \heartsuit y}{2} + \frac{20}{x \spadesuit y} = \frac{x \cdot y}{2}$

II. $\frac{3(x \heartsuit y)}{2} - \frac{15}{x \spadesuit y} = x + y - 4$

$(3 \heartsuit 4) + (3 \spadesuit 4) = ?$

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

10. I. $(a \star b) + (a \triangle b) = 2a + b$

II. $3 \cdot (a \star b) - 2 \cdot (a \triangle b) = (b - a) \cdot 3$

$(5 \star 7) + (5 \triangle 7) = ?$

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

11. I. $x \blacktriangle 5 = x^2 + 10$

II. $9 \blacktriangle 2 = 85$

III. $7 \blacktriangle 8 = ?$

- A) 60 B) 61 C) 63 D) 65 E) 67

12. I. $x \oplus 8 = x^3 - 2$

II. $4 \oplus 16 = 60$

$5 \oplus 88 = ?$

- A) 93 B) 103 C) 94 D) 104 E) 105

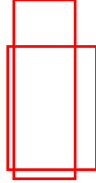
BÖLÜM
CHAPTER 3

İŞLEMLER
(OPERATIONS)

TEST-09

1. I. $144 \star 25 = 60$
II. $196 \star 169 = 182$
III. $225 \star 4 = 30$
IV. $121 \star 81 = ?$
- A) 9 B) 11 C) 20 D) 99 E) 108

60



2. I. $3 \blacksquare 4 = 5$
II. $7 \blacksquare 24 = 25$
III. $8 \blacksquare 6 = 10$
IV. $8 \blacksquare 15 = ?$
- A) 16 B) 17 C) 18 D) 19 E) 20

$\sqrt{a^2 + b^2}$

$a^2 + b^2$
 $8^2 + 15^2$
 $64 + 225$
 289

3. I. $5 \circ 4 = 41$
II. $6 \circ 7 = 85$
III. $8 \circ 4 = 80$
IV. $9 \circ 7 = ?$
- A) 120 B) 122 C) 125 D) 130 E) 131

$9^2 - 7^2$
 $81 - 49$
 32

4. I. $54 \otimes 18 = 6$
II. $98 \otimes 14 = 14$
III. $42 \otimes 13 = 8$
IV. $65 \otimes 13 = ?$
- A) 9 B) 10 C) 11 D) 12 E) 13

10

5. I. $42 \heartsuit 3 = 196$
II. $54 \heartsuit 9 = 36$
III. $26 \heartsuit 2 = 169$
IV. $72 \heartsuit 6 = ?$
- A) 12 B) 18 C) 36 D) 144 E) 324

$(a/b)^2$
 $(9/6)^2$
 2.25

6. I. $21 \circ 15 = 18$
II. $47 \circ 36 = 33$
III. $54 \circ 30 = 72$
IV. $42 \circ 25 = ?$
- A) 17 B) 34 C) 51 D) 68 E) 85

$2 \cdot 5$
 $3(a-b)$
 $17 \cdot 3$

7. I. $17 \otimes 35 = 26$
 II. $19 \otimes 21 = 20$
 III. $36 \otimes 18 = 27$
 IV. $27 \otimes 15 = ?$

A) 16 B) 18 C) 20 D) 21 E) 22

$$\frac{a+b}{2}$$

8. I. $39 \blacksquare 22 = 289$
 II. $25 \blacksquare 14 = 121$
 III. $47 \blacksquare 35 = 144$
 IV. $56 \blacksquare 43 = ?$

A) 169 B) 144 C) 121 D) 100 E) 81

$$(a-b)^2$$

$$\frac{a+b}{15}$$

9. I. $26 \triangle 14 = 8$
 II. $87 \triangle 28 = 23$
 III. $56 \triangle 29 = 17$
 IV. $43 \triangle 12 = ?$

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

10. I. $23 @ 26 = 7$
 II. $49 @ 15 = 8$
 III. $73 @ 71 = 12$
 IV. $87 @ 82 = ?$

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

$$\frac{a \cdot b}{3}$$

11. I. $12 \star 8 = 32$
 II. $15 \star 9 = 45$
 III. $7 \star 6 = 14$
 IV. $11 \star 12 = ?$

A) 22 B) 33 C) 44 D) 55 E) 66

$$\sqrt{a \cdot b}$$

12. I. $4 \bullet 9 = 6$
 II. $3 \bullet 27 = 9$
 III. $64 \bullet 1 = 8$
 IV. $2 \bullet 98 = ?$

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

D	B	D	B	D	C	D	A	C	E	C	D
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1. I. ★ 1452 = 4
II. ★ 9873 = 9
III. ★ 5376 = 7
IV. ★ 2346 = ?

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



2. I. ● 1234 = 21
II. ● 2415 = 36
III. ● 3029 = 33
IV. ● 2745 = ?

A) 9 B) 18 C) 36 D) 72 E) 81

3. I. ☐ 9220 = 14
II. ☐ 7141 = 18
III. ☐ 8452 = 12
IV. ☐ 6286 = ?

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

4. I. ☒ 1255 = 25
II. ☒ 2133 = 71
III. ☒ 1364 = 34
IV. ☒ 3699 = ?

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

5. I. ♥ 9786 = 4
II. ♥ 3276 = 2
III. ♥ 7962 = 11
IV. ♥ 4574 = ?

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

6. I. △ 1459 = 136
II. △ 1943 = 191
III. △ 2178 = 209
IV. △ 3437 = ?

A) 49 B) 330 C) 336 D) 338 E) 335

7. I. ★ 5315 = 68
 II. ★ 6917 = 86
 III. ★ 2765 = 92
 IV. ★ 4358 = ?

A) 81 B) 91 C) 101 D) 98 E) 99

8. I. ♥ 7165 = 6
 II. ♥ 4218 = 24
 III. ♥ 3815 = 23
 IV. ♥ 9762 = ?

A) 34 B) 35 C) 36 D) 37 E) 38

9. I. ☐ 9331 = 3
 II. ☐ 8232 = 2
 III. ☐ 9740 = 4
 IV. ☐ 4301 = ?

A) 12 B) 10 C) 9 D) 7 E) 5

10. I. △ 9457 = 20
 II. △ 2738 = 21
 III. △ 6468 = 24
 IV. △ 9765 = ?

A) 63 B) 60 C) 42 D) 30 E) 25

11. I. x 9123 = 15
 II. x 7632 = 9
 III. x 1293 = 3
 IV. x 4257 = ?

A) 20 B) 14 C) 12 D) 8 E) 6

12. I. ✓ 2176 = 17
 II. ✓ 3285 = 28
 III. ✓ 4376 = 37
 IV. ✓ 9213 = ?

A) 92 B) 74 C) 68 D) 35 E) 21

BÖLÜM
CHAPTER 3

İŞLEMLER
(OPERATIONS)

TEST-11

1. I. $22 \star 17 = 32$
II. $97 \star 30 = 48$
III. $75 \star 44 = 96$
IV. $27 \star 68 = ?$
A) 96 B) 106 C) 116 D) 126 E) 136

126

2. I. $62 \boxtimes 41 = 12$
II. $18 \boxtimes 27 = 35$
III. $98 \boxtimes 91 = 8$
IV. $73 \boxtimes 82 = ?$
A) 6 B) 12 C) 24 D) 48 E) 56

24

3. I. $89 \star 94 = 36$
II. $67 \star 65 = 12$
III. $93 \star 51 = 22$
IV. $64 \star 23 = ?$
A) 4 B) 6 C) 8 D) 16 E) 18

18

4. I. $52 \heartsuit 32 = 16$
II. $24 \heartsuit 47 = 36$
III. $45 \heartsuit 63 = 38$
IV. $27 \heartsuit 83 = ?$
A) 14 B) 24 C) 28 D) 38 E) 48

38

5. I. $97 \bullet 13 = 8$
II. $84 \bullet 45 = 36$
III. $71 \bullet 84 = 72$
IV. $65 \bullet 98 = ?$
A) 11 B) 17 C) 18 D) 19 E) 20

17

6. I. $92 \otimes 52 = 10$
II. $84 \otimes 30 = 7$
III. $64 \otimes 71 = 8$
IV. $95 \otimes 21 = ?$
A) 4 B) 5 C) 6 D) 7 E) 8

5

7. I. $27 \star 64 = 9$
 II. $25 \star 47 = 14$
 III. $86 \star 14 = 0$
 IV. $35 \star 42 = ?$
- A) 48 B) 49 C) 50 D) 51 E) 52

8. I. $98 \blacktriangle 44 = 2$
 II. $77 \blacktriangle 33 = 0$
 III. $84 \blacktriangle 23 = 7$
 IV. $62 \blacktriangle 29 = ?$
- A) 0 B) 1 C) 2 D) 3 E) 4

9. I. $29 \star 43 = 9$
 II. $84 \star 72 = 12$
 III. $25 \star 67 = 11$
 IV. $48 \star 17 = ?$
- A) 10 B) 11 C) 12 D) 18 E) 30

10. I. $5 \boxtimes 6 = 3$
 II. $12 \boxtimes 7 = 12$
 III. $3 \boxtimes 5 = 6$
 IV. $15 \boxtimes 3 = ?$
- A) 18 B) 15 C) 12 D) 9 E) 6

11. I. $8 \blacklozenge 9 = 14$
 II. $7 \blacklozenge 4 = 16$
 III. $14 \blacklozenge 2 = 16$
 IV. $29 \blacklozenge 3 = ?$
- A) 36 B) 42 C) 48 D) 52 E) 56

12. I. $12 \circ 43 = 50$
 II. $73 \circ 18 = 82$
 III. $15 \circ 13 = 68$
 IV. $26 \circ 37 = ?$
- A) 36 B) 45 C) 56 D) 63 E) 92

1. I. $15 \heartsuit 17 = 28$
II. $45 \heartsuit 16 = 57$
III. $27 \heartsuit 65 = 88$
IV. $42 \heartsuit 11 = ?$

A) 47 B) 48 C) 49 D) 50 E) 51

2. I. $108 \blacksquare 3 = 6$
II. $72 \blacksquare 8 = 3$
III. $48 \blacksquare 3 = 4$
IV. $128 \blacksquare 2 = ?$

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

3. I. $27 \bullet 16 = 48$
II. $17 \bullet 13 = 35$
III. $42 \bullet 7 = 54$
IV. $16 \bullet 28 = ?$

A) 41 B) 42 C) 45 D) 47 E) 49

4. I. $14 \star 4 = 75$
II. $11 \star 4 = 60$
III. $8 \star 3 = 36$
IV. $10 \star 12 = ?$

A) 120 B) 130 C) 132 D) 143 E) 156

5. I. $42 \times 14 = 2$
II. $60 \times 15 = 3$
III. $27 \times 3 = 8$
IV. $56 \times 4 = ?$

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

6. I. $24 \star 12 = 19$
II. $45 \star 37 = 15$
III. $38 \star 16 = 29$
IV. $29 \star 18 = ?$

A) 19 B) 18 C) 17 D) 16 E) 15

7. I. $5 \checkmark 8 = 23$
 II. $4 \checkmark 9 = 21$
 III. $12 \checkmark 4 = 40$
 IV. $11 \checkmark 12 = ?$

A) 33 B) 37 C) 39 D) 44 E) 45

8. I. $5 \otimes 18 = 19$
 II. $12 \otimes 4 = 26$
 III. $17 \otimes 6 = 37$
 IV. $15 \otimes 12 = ?$

A) 36 B) 35 C) 33 D) 29 E) 27

9. I. $5 \infty 2 = 11$
 II. $7 \infty 4 = 13$
 III. $10 \infty 1 = 28$
 IV. $9 \infty 5 = ?$

A) 11 B) 13 C) 15 D) 17 E) 19

10. I. $3 \blacksquare 4 = 6$
 II. $11 \blacksquare 6 = 50$
 III. $15 \blacksquare 3 = 28$
 IV. $7 \blacksquare 13 = ?$

A) 20 B) 45 C) 56 D) 72 E) 91

11. I. $7 \times 2 = 51$
 II. $12 \times 15 = 159$
 III. $9 \times 12 = 93$
 IV. $6 \times 17 = ?$

A) 36 B) 34 C) 40 D) 47 E) 53

12. I. $24 \star 15 = 81$
 II. $37 \star 19 = 324$
 III. $17 \star 3 = 196$
 IV. $68 \star 56 = ?$

A) 16 B) 36 C) 64 D) 100 E) 144

C	C	E	D	C	B	E	A	D	D	E	E
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1. I. $24 \triangle 3 = 36$
II. $8 \triangle 12 = 48$
III. $7 \triangle 18 = 63$
IV. $5 \triangle 16 = ?$
- A) 160 B) 145 C) 120 D) 80 E) 40

2. I. $14 \times 3 = 47$
II. $18 \times 2 = 41$
III. $9 \times 7 = 68$
IV. $8 \times 4 = ?$
- A) 12 B) 17 C) 32 D) 37 E) 42

3. I. $3 \bullet 7 \rightarrow 9, 49, 21$
II. $6 \bullet 13 \rightarrow 36, 169, 78$
III. $5 \bullet 8 \rightarrow 25, 64, 40$
IV. $x \bullet y \rightarrow 144, 81, 108 \Rightarrow (x,y) = ?$
- A) (9, 12) B) (12, 9) C) (8, 12)
D) (8, 12) E) (12, 7)

4. I. $8 \oplus 15 = 38$
II. $12 \oplus 6 = 24$
III. $17 \oplus 13 = 43$
IV. $14 \oplus 19 = ?$
- A) 52 B) 54 C) 56 D) 58 E) 60

5. I. $\blacksquare 9 \rightarrow 8, 10, 80$
II. $\blacksquare 15 \rightarrow 14, 16, 224$
III. $\blacksquare 7 \rightarrow 6, 8, 48$
IV. $\blacksquare 11 \rightarrow x, y, z \Rightarrow x + y + z = ?$
- A) 140 B) 141 C) 142 D) 143 E) 144

6. I. $9 \bullet 12 = 36$
II. $6 \bullet 17 = 34$
III. $7 \bullet 15 = 35$
IV. $8 \bullet 21 = ?$
- A) 56 B) 48 C) 42 D) 40 E) 32

7. I. $7 \star 9 = 88$
 II. $13 \star 12 = 157$
 III. $15 \star 14 = 211$
 IV. $12 \star 15 = ?$
- A) 144 B) 149 C) 215 D) 225 E) 237

8. I. $8 \blacksquare 4 = 644$
 II. $2 \blacksquare 5 = 37$
 III. $7 \blacksquare 3 = 493$
 IV. $6 \blacksquare 9 = ?$
- A) 681 B) 369 C) 3681 D) 816 E) 1218

9. I. $3 \heartsuit 2 = 19$
 II. $4 \heartsuit 3 = 37$
 III. $5 \heartsuit 4 = 61$
 IV. $6 \heartsuit 5 = ?$
- A) 91 B) 92 C) 101 D) 102 E) 103

10. I. $27 \bullet 8 = 6$
 II. $125 \bullet 64 = 20$
 III. $64 \bullet 1 = 4$
 IV. $216 \bullet 27 = ?$
- A) 2 B) 3 C) 6 D) 9 E) 18

11. I. $12 \odot 15 = 3$
 II. $14 \odot 50 = 4$
 III. $27 \odot 37 = 4$
 IV. $38 \odot 87 = ?$
- A) 2 B) 3 C) 4 D) 5 E) 6

12. I. $12 \blacktriangle 18 = 69$
 II. $16 \blacktriangle 8 = 84$
 III. $24 \blacktriangle 14 = 127$
 IV. $22 \blacktriangle 10 = ?$
- A) 25 B) 225 C) 115 D) 110 E) 105

E	D	B	A	C	A	E	B	A	E	D	C
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1. I. $3 \blacksquare 6 = 99$
II. $6 \blacksquare 5 = 121$
III. $7 \blacksquare 8 = 165$
IV. $9 \blacksquare 4 = ?$

A) 13 B) 26 C) 121 D) 132 E) 143

2. I. $16 \star 3 = 2$
II. $24 \star 2 = 4$
III. $34 \star 6 = 2$
IV. $29 \star 3 = ?$

A) 2 B) 3 C) 6 D) 9 E) 12

3. I. $75 \odot 17 = 51$
II. $48 \odot 25 = 82$
III. $94 \odot 62 = 46$
IV. $73 \odot 97 = ?$

A) 79 B) 39 C) 77 D) 37 E) 73

4. I. $62 \blacktriangle 45 = 41$
II. $85 \blacktriangle 63 = 27$
III. $43 \star 91 = 2$
IV. $74 \star 32 = ?$

A) 42 B) 39 C) 29 D) 27 E) 28

5. I. $\triangle 523 = 32$
II. $\triangle 945 = 54$
III. $\triangle 715 = 62$
IV. $\triangle 864 = ?$

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

6. I. $7 \star 8 \rightarrow 57, 14$
II. $13 \star 2 \rightarrow 27, 14$
III. $6 \star 7 \rightarrow 43, 12$
IV. $5 \star 3 \rightarrow ?, ?$

A) (16, 8) B) (16, 9) C) (8, 16)
D) (7, 16) E) (16, 7)

7. I. $54 \star 18 = 27$
 II. $45 \star 9 = 125$
 III. $28 \star 14 = 8$
 IV. $52 \star 13 = ?$

A) 1 B) 2 C) 27 D) 64 E) 125

8. I. $7 + 9 = 40$
 II. $9 + 5 = 76$
 III. $8 + 1 = 63$
 IV. $12 + 51 = ?$

A) 141 B) 124 C) 93 D) 35 E) 91

9. I. $\infty 325 = 13, 29$
 II. $\infty 418 = 17, 65$
 III. $\infty 927 = 85, 53$
 IV. $\infty 246 = ?, ?$

A) (6, 8) B) (20, 52) C) (20, 24)
 D) (6, 10) E) (8, 24)

10. I. $\# 425 \rightarrow 10$
 II. $\# 267 \rightarrow 21$
 III. $\# 817 \rightarrow 14$
 IV. $\# 683 \rightarrow ?$

A) 18 B) 24 C) 36 D) 48 E) 144

11. I. $7 \gamma 15 = 328$
 II. $5 \gamma 35 = 90$
 III. $4 \gamma 12 = 52$
 IV. $4 \gamma 27 = ?$

A) 17 B) 27 C) 37 D) 47 E) 57

12. I. $7 \odot 8 = 41$
 II. $9 \odot 4 = 23$
 III. $6 \odot 5 = 19$
 IV. $3 \odot 7 = ?$

A) 24 B) 21 C) 18 D) 14 E) 11

E	C	B	C	B	E	D	C	B	C	C	E
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1. I. ■ $18 \rightarrow 9$
II. ■ $24 \rightarrow 6$
III. $\Delta 18 \rightarrow 8$
IV. $\Delta 24 \rightarrow 8$
■ $(\Delta 97) = ?$
- A) 6 B) 7 C) 9 D) 18 E) 63

2. I. $216 * 125 = 11$
II. $8 * 343 = 9$
III. $64 * 1 = 5$
IV. $27 * 64 = ?$
- A) 7 B) 6 C) 5 D) 4 E) 3

3. I. $7 \Delta 4 = 38$
II. $8 \Delta 9 = 82$
III. $2 \Delta 7 = 24$
IV. $5 \Delta 6 = ?$
- A) 11 B) 16 C) 17 D) 30 E) 40

4. I. $4 \Omega 3 = 64$
II. $2 \Omega 3 = 8$
III. $5 \Omega 2 = 25$
IV. $3 \Omega 4 = ?$
- A) 81 B) 27 C) 12 D) 9 E) 6

5. I. $\otimes 246 \rightarrow 624$
II. $\boxtimes 135 \rightarrow 531$
 $\boxtimes (214) + \otimes 345 = ?$
- A) 964 B) 946 C) 962 D) 945 E) 954

6. I. $5 \star 7 = 54$
II. $3 \star 8 = 67$
III. $15 \star 5 = 40$
IV. $14 \star 6 = ?$
- A) 20 B) 36 C) 40 D) 50 E) 60

7. I. $\blacktriangle 234 \rightarrow 29$
 II. $\blacktriangle 143 \rightarrow 26$
 III. $\blacktriangle 241 \rightarrow 21$
 IV. $\blacktriangle 345 \rightarrow ?$
- A) 9 B) 16 C) 25 D) 41 E) 50

8. I. $7 \heartsuit 3 = 97$
 II. $8 \heartsuit 5 = 258$
 III. $6 \heartsuit 4 = 166$
 IV. $2 \heartsuit 6 = ?$
- A) 46 B) 436 C) 364 D) 362 E) 446

9. I. $2 \infty 3 = 25$
 II. $27 \infty 4 = 37$
 III. $5 \infty 2 = 3$
 IV. $83 \infty 5 = ?$
- A) 40 B) 41 C) 42 D) 43 E) 44

10. I. $8 + 5 = 28$
 II. $9 + 2 = 344$
 III. $7 + 2 = 126$
 IV. $8 + 4 = ?$
- A) 33 B) 36 C) 64 D) 65 E) 67

11. I. $2 \checkmark 3 = 26$
 II. $4 \checkmark 5 = 82$
 III. $8 \checkmark 3 = 122$
 IV. $7 \checkmark 3 = ?$
- A) 101 B) 100 C) 50 D) 22 E) 10

12. I. $\otimes 342 \rightarrow 76$
 II. $\otimes 847 \rightarrow 1211$
 III. $\otimes 268 \rightarrow 814$
 IV. $\otimes 375 \rightarrow ?$
- A) 1012 B) 105 C) 1025 D) 2135 E) 1210

C	A	E	A	B	D	E	D	C	D	A	A
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1. I. $\infty 713 \rightarrow 212$
II. $\infty 824 \rightarrow 324$
III. $\infty 437 \rightarrow 286$
IV. $\infty 847 \rightarrow ?$
- A) 327 B) 288 C) 3228 D) 564 E) 568

2. I. $\otimes 510 = 115$
II. $\otimes 740 = 303$
III. $\otimes 642 = 174$
IV. $\otimes 412 = ?$
- A) 64 B) 62 C) 58 D) 54 E) 52

3. I. $\star 75 \rightarrow 44$
II. $\star 89 \rightarrow 55$
III. $\star 61 \rightarrow 35$
IV. $\star 97 \rightarrow ?$
- A) 74 B) 75 C) 76 D) 77 E) 78

4. I. $\triangle 56 \rightarrow 22$
II. $\triangle 71 \rightarrow 16$
III. $\bullet 64 \rightarrow 6$
IV. $\bullet 83 \rightarrow 15$
 $\bullet(\triangle 87) = ?$
- A) 30 B) 15 C) 9 D) 6 E) 3

5. I. $\heartsuit 98 \rightarrow 9$
II. $\heartsuit 76 \rightarrow 6$
III. $\clubsuit 58 \rightarrow 0$
IV. $\clubsuit 48 \rightarrow 6$
- $\clubsuit 75 + \heartsuit 48 = ?$
- A) 40 B) 35 C) 30 D) 25 E) 20

6. I. $\diamond 2412 \rightarrow 22$
II. $\diamond 3745 \rightarrow 35$
III. $\diamond 7182 \rightarrow 72$
IV. $\diamond 8236 \rightarrow ?$
- A) 82 B) 83 C) 26 D) 86 E) 16

7. I. $7 \star 5 \rightarrow \frac{1}{6}$
 II. $8 \star 5 \rightarrow \frac{3}{13}$
 III. $9 \star 6 \rightarrow \frac{1}{5}$
 IV. $a \star b \rightarrow ?$
- A) $\frac{ab}{a+b}$ B) $\frac{a}{b}$ C) $\frac{1}{a+b}$ D) $\frac{a-b}{a+b}$ E) $\frac{a+b}{a-b}$

8. I. $5 \infty 4 = \frac{3}{4}$
 II. $7 \infty 6 = \frac{13}{18}$
 III. $3 \infty 5 = \frac{8}{15}$
 IV. $(a+1) \infty (b+1) = ?$
- A) $\frac{a+b}{3b}$ B) $\frac{a+b+2}{3b+3}$ C) $\frac{a+b+1}{3b+3}$
 D) $\frac{a+b}{b+3}$ E) $\frac{a+b}{ab}$

9. I. $4 \nabla 8 = \frac{2}{5}$
 II. $3 \nabla 4 = \frac{12}{25}$
 III. $5 \nabla 1 = \frac{5}{26}$
 IV. $(a+1) \nabla b = ?$
- A) $\frac{ab}{a^2+b^2}$ B) $\frac{ab+b}{a^2+2a+b^2+1}$
 C) $\frac{a+b+1}{(a+1)b}$ D) $\frac{a^2+2b+1}{b^2}$
 E) $\frac{(a+1)}{b^2}$

10. I. $(24 \bullet 12) \blacksquare 4 = 6$
 II. $(18 \blacksquare 6) \bullet 3 = 8$
 III. $(42 \bullet 2) \blacksquare 12 = 33$
 IV. $(27 \blacksquare 8) \bullet 7 = ?$
- A) 4 B) 5 C) 6 D) 7 E) 8

11. I. $\checkmark 153 \rightarrow 125$
 II. $\checkmark 248 \rightarrow 27$
 III. $\spadesuit 189 \rightarrow 4$
 IV. $\spadesuit 246 \rightarrow 16$
 $\checkmark (\spadesuit 543) = ?$
- A) 8 B) 27 C) 64 D) 216 E) 512

12. I. $x 71 \rightarrow 48$
 II. $x 97 \rightarrow 32$
 III. $x 83 \rightarrow 55$
 IV. $x 62 \rightarrow ?$
- A) 32 B) 33 C) 34 D) 35 E) 36

E	E	A	C	E	D	D	B	B	B	E	A
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1. I. $(15 \blacktriangle 5) \nabla 8 = 12$
II. $(17 \nabla 3) \blacktriangle 7 = 21$
III. $(18 \blacktriangle 2) \nabla (11 \blacktriangle 3) = 6$
IV. $(19 \nabla 6) \blacktriangle (12 \nabla 5) = ?$
- A) 8 B) 12 C) 16 D) 18 E) 20

2. I. $\blacksquare 2718 = 8172$
II. $\blacktriangle 9431 = 3194$
III. $\blacksquare(\blacktriangle 7531) = ?$
- A) 5713 B) 3175 C) 7513 D) 3157 E) 1357

3. I. $\boxtimes 3475 \rightarrow 828$
II. $\boxtimes 2674 \rightarrow 642$
III. $\boxtimes 1836 \rightarrow 724$
IV. $\boxtimes 3756 \rightarrow ?$
- A) 1030 B) 1011 C) 2156 D) 935 E) 1835

4. I. $\bullet 27 \rightarrow 128, 49$
II. $\bullet 35 \rightarrow 243, 125$
III. $\bullet 43 \rightarrow 64, 81$
IV. $\bullet 52 \rightarrow 25, ?$
- A) 32 B) 10 C) 7 D) 5 E) 2

5. I. $157 \otimes 286 = 29$
II. $815 \otimes 210 = 17$
III. $987 \otimes 123 = 30$
IV. $246 \otimes 135 = ?$
- A) 19 B) 20 C) 21 D) 22 E) 23

6. I. $24 \boxtimes 43 \rightarrow 67, 812$
II. $17 \boxtimes 23 \rightarrow 85, 76$
III. $25 \boxtimes 71 \rightarrow 78, 107$
IV. $81 \boxtimes 22 \rightarrow 94, ?$
- A) 84 B) 70 C) 74 D) 64 E) 5

7. I. $84 \heartsuit 72 = 45$
 II. $74 \heartsuit 62 = 34$
 III. $81 \heartsuit 41 = 73$
 IV. $87 \heartsuit 92 = ?$

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

8. I. $5 \blacktriangleleft 10 = 135$
 II. $3 \blacktriangleleft 17 = 44$
 III. $6 \blacktriangleleft 4 = 220$
 IV. $4 \blacktriangleleft 12 = ?$

A) 16 B) 28 C) 76 D) 176 E) 196

9. I. $125 \boxtimes 64 = 1$
 II. $343 \boxtimes 8 = 5$
 III. $216 \boxtimes 27 = 3$
 IV. $512 \boxtimes 1 = ?$

A) 10 B) 9 C) 8 D) 7 E) 5

10. I. $5674 \bullet \rightarrow 4$
 II. $8912 \bullet \rightarrow 0$
 III. $1235 \bullet \rightarrow 1$
 IV. $2457 \bullet \rightarrow ?$

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

11. I. $19 \oplus 8 = 45$
 II. $13 \oplus 12 = 131$
 III. $38 \oplus 10 = 62$
 IV. $15 \oplus 9 = ?$

A) 96 B) 86 C) 76 D) 66 E) 56

12. I. $26 \star 15 = 512$
 II. $17 \star 48 = 327$
 III. $74 \star 39 = 2728$
 IV. $24 \star 38 = ?$

A) 624 B) 611 C) 246 D) 248 E) 116

E	A	D	A	C	A	B	C	D	D	D	D
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1. I. $\star 7 \rightarrow 42$
II. $\star 9 \rightarrow 72$
III. $\star 8 \rightarrow 56$
IV. $\star 6 \rightarrow ?$
- A) 52 B) 46 C) 42 D) 36 E) 30

2. I. $\blacktriangleright 3456 = 18$
II. $\blacktriangleright 2845 = 19$
III. $\blacktriangleright 2561 = 14$
IV. $\blacktriangleright 8421 = ?$
- A) 11 B) 12 C) 13 D) 14 E) 15

3. I. $81 \heartsuit 4 \rightarrow 40$
II. $27 \heartsuit 13 \rightarrow 0$
III. $45 \heartsuit 12 \rightarrow 35$
IV. $37 \heartsuit 24 \rightarrow ?$
- A) 6 B) 7 C) 8 D) 9 E) 10

4. I. $12 \bullet \rightarrow 156$
II. $15 \bullet \rightarrow 240$
III. $9 \bullet \rightarrow 90$
IV. $18 \bullet \rightarrow ?$
- A) 306 B) 316 C) 324 D) 332 E) 342

5. I. $\Delta 715 = 11$
II. $\Delta 824 = 10$
III. $\Delta 379 = 5$
IV. $\Delta 538 = ?$
- A) 16 B) 10 C) 6 D) 2 E) 0

6. I. $981 \infty = 0$
II. $712 \infty = 4$
III. $510 \infty = 4$
IV. $612 \infty = ?$
- A) 0 B) 1 C) 2 D) 3 E) 4

7. I. $12 \nabla 24 = 18$
 II. $41 \nabla 21 = 16$
 III. $70 \nabla 15 = 26$
 IV. $12 \nabla 31 = ?$
- A) 10 B) 12 C) 14 D) 16 E) 18

8. I. $\blacktriangleright 548 = 46$
 II. $\blacktriangleright 489 = 39$
 III. $\blacktriangleright 172 = 15$
 IV. $\blacktriangleright 247 = ?$
- A) 15 B) 16 C) 17 D) 18 E) 19

9. I. $345 \times \rightarrow 11$
 II. $289 \times \rightarrow 10$
 III. $417 \times \rightarrow 27$
 IV. $524 \times \rightarrow ?$
- A) 11 B) 13 C) 14 D) 15 E) 18

10. I. $22 \star 15 = 52$
 II. $13 \star 21 = 25$
 III. $23 \star 40 = 41$
 IV. $14 \star 51 = ?$
- A) 65 B) 64 C) 63 D) 62 E) 61

11. I. $\blacktriangle 2411 \rightarrow 8$
 II. $\blacktriangle 3826 \rightarrow 2$
 III. $\blacktriangle 6992 \rightarrow 3$
 IV. $\blacktriangle 6843 \rightarrow ?$
- A) 3 B) 4 C) 5 D) 6 E) 7

12. I. $9963 \rightarrow 9$
 II. $8622 \rightarrow 12$
 III. $7630 \rightarrow 14$
 IV. $4984 \rightarrow ?$
- A) 2 B) 3 C) 4 D) 5 E) 6

1. I. $\frac{1}{3} \otimes \frac{1}{54} = 18$

II. $17 \otimes \frac{1}{4} = 68$

III. $\frac{1}{5} \otimes 2 = \frac{1}{10}$

IV. $12 \otimes \frac{1}{3} = ?$

A) 36 B) 12 C) 4 D) $\frac{1}{4}$ E) $\frac{1}{3}$

2. I. $30 \times 3 = 3$
II. $8 \times 1 = 7$
III. $150 \times 5 = 25$
IV. $75 \times 4 = ?$

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

3. I. $7 \times 5 = 76$
II. $4 \times 4 = 48$
III. $2 \times 3 = 23$
IV. $3 \times 4 = ?$

A) 65 B) 55 C) 45 D) 35 E) 25

4. I. $\bullet 1357 = 16$
II. $\bullet 2468 = 20$
III. $\bullet 1367 = 17$
IV. $\bullet 9319 = ?$

A) 5 B) 9 C) 14 D) 16 E) 18

5. I. $7 \infty 26 = 57$
II. $6 \infty 13 = 40$
III. $4 \infty 45 = 25$
IV. $9 \infty 12 = ?$

A) 78 B) 80 C) 82 D) 83 E) 84

6. I. $41 \checkmark 92 = 73$
II. $54 \checkmark 82 = 61$
III. $94 \checkmark 83 = 55$
IV. $82 \checkmark 53 = ?$

A) 62 B) 25 C) 26 D) 80 E) 68

7. I. ★ 976 → 21
 II. ★ 763 → 13
 III. ★ 861 → 25
 IV. ★ 730 → ?
 A) 10 B) 20 C) 30 D) 33 E) 43

8. I. ⊗ 3 → 30
 II. ⊗ 2 → 10
 III. ⊗ 5 → 130
 IV. ⊗ 4 → ?
 A) 60 B) 64 C) 68 D) 72 E) 76

9. I. ■ 9175 → 16
 II. ■ 7232 → 25
 III. ■ 3450 → 9
 IV. ■ 6184 → ?
 A) 1 B) 4 C) 9 D) 16 E) 25

10. I. ● 915 = 76
 II. ● 641 = 23
 III. ● 742 = 32
 IV. ● 621 = ?
 A) 12 B) 27 C) 9 D) 41 E) 51

11. I. ⊕ 8714 → 16
 II. ⊕ 9745 → 22
 III. ⊕ 7113 → 4
 IV. ⊕ 4201 → ?
 A) 6 B) 5 C) 4 D) 3 E) 2

12. I. 3 △ 4 = 7
 II. 5 △ 6 = 7
 III. 6 △ 7 = 13
 IV. 8 △ 9 = ?
 A) 6 B) 7 C) 8 D) 9 E) 10

A	B	B	E	E	C	E	C	B	D	C	E
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1. I. $125 \triangle 347 = 10$
II. $339 \triangle 439 = 25$
III. $901 \triangle 201 = 85$
IV. $415 \triangle 715 = ?$

A) 45 B) 55 C) 65 D) 75 E) 85

2. I. $25 \odot 32 = 29$
II. $17 \odot 25 = 19$
III. $38 \odot 75 = 26$
IV. $65 \odot 13 = ?$

A) 52 B) 42 C) 35 D) 25 E) 15

3. I. $52 \boxtimes 441 = 17$
II. $61 \boxtimes 94 = 11$
III. $46 \boxtimes 63 = 14$
IV. $961 \boxtimes 18 = ?$

A) 13 B) 15 C) 20 D) 81 E) 22

4. I. $7 \infty 8 = 96$
II. $5 \infty 9 = 77$
III. $3 \infty 4 = 52$
IV. $4 \infty 8 = ?$

A) 68 B) 66 C) 58 D) 28 E) 26

5. I. $128 \triangle 144 = 14$
II. $25 \triangle 27 = 6$
III. $125 \triangle 32 = 15$
IV. $36 \triangle 625 = ?$

A) 30 B) 24 C) 10 D) 8 E) 6

6. I. $5 \checkmark 2 = 32$
II. $4 \checkmark 3 = 81$
III. $3 \checkmark 7 = 343$
IV. $7 \checkmark 2 = ?$

A) 16 B) 32 C) 64 D) 128 E) 256

7. I. $125 \uparrow 25 = 5$
 II. $36 \uparrow \frac{1}{6} = 216$
 III. $\frac{1}{9} \uparrow \frac{1}{243} = 27$
 IV. $\frac{1}{2} \uparrow 8 = ?$

A) $\frac{1}{16}$ B) $\frac{1}{4}$ C) 2 D) 4 E) 16

8. I. $32 @ 125 = 10$
 II. $8 @ 81 = 6$
 III. $36 @ 49 = 42$
 IV. $128 @ 196 = ?$

A) 12 B) 14 C) 22 D) 24 E) 28

9. I. $\blacksquare 2134 = 281$
 II. $\blacksquare 3243 = 964$
 III. $\blacksquare 2523 = 328$
 IV. $\blacksquare 1352 = ?$

A) 47 B) 132 C) 332 D) 125 E) 325

10. I. $32 \star 27 = 6$
 II. $25 \star 128 = 35$
 III. $343 \star 125 = 21$
 IV. $196 \star 216 = ?$

A) 21 B) 28 C) 35 D) 42 E) 56

11. I. $521 \boxtimes 72 = 15$
 II. $46 \boxtimes 612 = 24$
 III. $8 \boxtimes 215 = 16$
 IV. $343 \boxtimes 1 = ?$

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

12. I. $24 \star 5 = 910$
 II. $48 \star 11 = 2110$
 III. $57 \star 28 = 1811$
 IV. $75 \star 17 = ?$

A) 1340 B) 5813 C) 5840 D) 4013 E) 4031

C	D	E	B	D	D	A	E	D	D	C	D
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BÖLÜM

CHAPTER

4

SAYI DİZİLERİ

(NUMBER SERIES)

1. 7, 17, 28, 40, 53, 67, ?

- A) 79 B) 80 C) 81 D) 82 E) 83

2. 1, 2, 6, 24, 120, 720, ?

- A) 4904 B) 4940 C) 5040 D) 5045 E) 5080

3. 15, 17, 21, 27, 35, 45, 57, ?

- A) 61 B) 67 C) 69 D) 71 E) 73

4. 8, 10, 14, 22, 38, 70, ?

- A) 114 B) 124 C) 134 D) 144 E) 154

5. 11, 12, 15, 20, 27, 36, 47, ?

- A) 40 B) 50 C) 60 D) 70 E) 80

6. 1, 5, 3, 15, 13, 65, 63, ?

- A) 305 B) 315 C) 325 D) 345 E) 355

7. 6, 8, 24, 20, 22, 66, 62, 64, ?

- A) 192 B) 182 C) 122 D) 68 E) 60

8. 7, 35, 63, 91, 119, 147, ?

- A) 185 B) 175 C) 165 D) 155 E) 145

9. 4, 12, 8, 24, 20, 60, 56, 168, ?

- A) 160 B) 162 C) 164 D) 166 E) 168

10. 2, 4, 8, 11, 33, 37, 148, ?

- A) 150 B) 151 C) 152 D) 153 E) 154

11. 1, 1, 2, 3, 5, 8, 13, 21, 34, ?

- A) 54 B) 55 C) 56 D) 57 E) 58

12. 8, 5, 15, 12, 36, 33, 99, ?

- A) 90 B) 93 C) 96 D) 297 E) 300

13. 1, 7, 14, 20, 40, 46, 92, ?

- A) 86 B) 88 C) 96 D) 98 E) 184

14. 295, 291, 97, 93, 31, 27, 9, ?

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

15. 1, 3, 2, 6, 5, 15, 14, 42, 41, ?

- A) 120 B) 122 C) 123 D) 124 E) 125

16. 9, 13, 26, 30, 60, 64, 128, ?

- A) 130 B) 131 C) 132 D) 256 E) 260

17. 1, 7, 8, 56, 57, 399, 400, ?

- A) 2800 B) 407 C) 401 D) 200 E) 1600

18. 5, 6, 12, 19, 32, 52, ?

- A) 84 B) 85 C) 86 D) 87 E) 88

19. 8, 11, 22, 17, 20, 40, 35, 38, 76, ?

- A) 71 B) 72 C) 79 D) 80 E) 152

20. 5, 1, 5, 11, 7, 35, 41, 37, 185, 191, ?

- A) 183 B) 184 C) 185 D) 186 E) 187

1. 4, 9, 19, 39, 79, 159, ?
A) 318 B) 319 C) 320 D) 328 E) 329
2. 510, 504, 168, 162, 54, 48, ?
A) 42 B) 24 C) 18 D) 16 E) 10
3. 150, 152, 156, 162, 172, 188, 214, ?
A) 236 B) 246 C) 256 D) 266 E) 276
4. 47, 54, 68, 96, 152, ?
A) 264 B) 267 C) 269 D) 272 E) 274
5. 1, 5, 13, 29, 61, 125, ?
A) 250 B) 251 C) 252 D) 253 E) 254
6. 100, 101, 104, 108, 115, 126, ?
A) 144 B) 134 C) 154 D) 164 E) 174
7. 3, 5, 11, 29, 83, ?
A) 241 B) 242 C) 243 D) 244 E) 245
8. 10, 50, 55, 11, 55, 60, 12, 60, 65, ?
A) 70 B) 75 C) 60 D) 15 E) 13
9. 1440, ?, 48, 12, 4, 2, 2
A) 240 B) 241 C) 242 D) 243 E) 244
10. 3, 12, 6, 24, 12, ?, 24, 96 ?
A) 6 B) 12 C) 24 D) 36 E) 48

11. 80, 85, ?, 169, 174, 348, 347

- A) 168 B) 170 C) 171 D) 172 E) 173

12. 2, 4, 1, ?, 6, 3, 12, 14, 11, 44

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

13. 4, 4, 5, 10, 12, 36, ?, 156, 160

- A) 37 B) 38 C) 39 D) 40 E) 41

14. 2, 7, ?, 72, 220, 665

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

15. 4, 9, 25, ?, 144, 289, 529

- A) 36 B) 49 C) 64 D) 81 E) 100

16. 105, 111, 114, ?, 123, 129, 142

- A) 118 B) 119 C) 120 D) 121 E) 122

17. 1, 9, 25, 49, ?, 121, 169, 225

- A) 36 B) 64 C) 81 D) 100 E) 121

18. 5, 10, 21, 44, ?, 186, 377

- A) 88 B) 89 C) 90 D) 91 E) 92

19. 0, 8, 64, ?, 512, 1000

- A) 216 B) 226 C) 246 D) 256 E) 266

20. 18, 26, 38, 62, ?, 102, 102

- A) 66 B) 68 C) 70 D) 72 E) 74

1. 11, 29, 12, 28, 13, ? 14, 26, 15
A) 25 B) 26 C) 27 D) 16 E) 17
2. 3, 96, 6, 48, 12, 24, ?, 12, 48, 6
A) 24 B) 12 C) 6 D) 3 E) 3/2
3. 28, 27, 26, 30, 24, ?, 22, 36, 20, 39
A) 25 B) 27 C) 29 D) 31 E) 33
4. 19, 28, 37, 46, ?, 64, 73, 82, 91
A) 51 B) 52 C) 53 D) 54 E) 55
5. 115, 125, 117, 122, 121, 116, 127, 107, 135, ?
A) 97 B) 96 C) 95 D) 94 E) 93
6. 17, 57, 22, 52, 32, 42, 47, 27, ?
A) 67 B) 77 C) 62 D) 72 E) 32
7. 17, 32, 22, 27, 20, 29, 25, 24, 23, 26, 28, ?
A) 20 B) 21 C) 22 D) 23 E) 24
8. 67, 76, 64, 79, 61, 82, 58, 85, ?
A) 59 B) 58 C) 57 D) 56 E) 55
9. 111, 111, 115, 107, 120, 102, 126, 96, ?, ?
A) (133, 88) B) (132, 89) C) (132, 88)
D) (133, 89) E) (133, 90)
10. 1, 360, 2, 180, 6, 60, ?, 15, 120, 3
A) 12 B) 24 C) 26 D) 48 E) 96

11. 2, 4, 4, 12, 8, 36, 16, ?, ?

- A) (32, 108) B) (108, 32) C) (108, 64)
D) (72, 32) E) (32, 72)

12. 5, 4, 11, 7, 23, 13, 47, 25, ?, ?

- A) (93, 51) B) (95, 51) C) (93, 49)
D) (94, 49) E) (95, 49)

13. 4, 5, 10, 17, 28, 53, 82, ?

- A) 159 B) 160 C) 161 D) 162 E) 163

14. 7, 8, 14, 16, 15, 15, 30, 30, 31, 29, ?, ?

- A) (62, 58) B) (62, 28) C) (32, 28)
D) (32, 58) E) (62, 30)

15. 1, 2, 4, 11, 19, 56, ?, 281, 469

- A) 93 B) 94 C) 95 D) 96 E) 97

16. 4, 8, 9, 10, 18, 50, 23, 52, 46, 260, ?

- A) 50 B) 51 C) 132 D) 133 E) 330

17. 124, 124, 125, 123, ?, 121, 130, 118

- A) 123 B) 124 C) 125 D) 126 E) 127

18. 8, 9, 10, 12, 14, 18, 22, 30, 38, ?, ?

- A) (54, 70) B) (62, 70) C) (70, 54)
D) (54, 46) E) (62, 38)

19. 17, 16, 35, 33, 71, 67, 143, 135, ?

- A) 285 B) 286 C) 287 D) 288 E) 289

20. 6, 5, 19, 14, 58, 41, ?, 122, 526, 365

- A) 172 B) 173 C) 174 D) 175 E) 176

BÖLÜM
CHAPTER 4**SAYI DİZİLERİ**
(NUMBER SERIES)**TEST-04**

1. I. 2, 4, 8, 16, 32, ?
II. ?, 48, 24, 12, 6, 3
- A) (64, 24) B) (64, 96) C) (64, 32)
D) (96, 64) E) (96, 32)

2. I. 48, 24, 12, 6, ?
II. 102, 72, 48, 30, ?
- A) 3, 6 B) 6, 2 C) 1, 5 D) 3, 18 E) 3, 9

3. I. 7, 9, 13, 19, 27, 37
II. 14, 18, 26, 38, 54, ?
- A) 64 B) 74 C) 84 D) 94 E) 104

4. I. 81, 27, 9, 3, 1
II. 81, 54, 27, ?, 5
- A) 6 B) 9 C) 12 D) 15 E) 18

5. I. 1, 4, ?, 16, 25
II. 1, 8, 27, ?, 125
- A) 9, 64 B) 9, 68 C) 9, 27
D) 216, 64 E) 49, 64

6. I. 15, 19, 23, 27, 31
II. 60, 76, ?, 108, 124
- A) 90 B) 91 C) 92 D) 93 E) 94

7. I. 15, 20, 40, 45, 90, 95
II. 30, 25, 80, 50, 180, ?
- A) 80 B) 85 C) 90 D) 95 E) 100

8. I. 2, 8, 24, ?, 90
II. 6, 14, 72, 36, 270
- A) 24 B) 25 C) 26 D) 28 E) 30

9. I. 81, 71, 62, 54, ?, 41
 II. 162, 142, 124, 108, 94, 82
- A) 42 B) 43 C) 44 D) 45 E) 47

10. I II III IV V
 37 40 44 49 55
 42 46 51 57 ?
- A) 60 B) 62 C) 64 D) 66 E) 68

11. I II III IV V
 15 19 24 30 ?
 6 10 8 3 ?
- A) 35, 8 B) 36, 9 C) 37, 10 D) 37, 0 E) 37, 1

12. I II III IV V
 18 27 36 45 54
 26 45 64 83 ?
- A) 105 B) 104 C) 103 D) 102 E) 101

13. I II III IV V
 12 24 48 96 ?
 9 36 144 225 ?
- A) 190, 100 B) 191, 121 C) 192, 144
 D) 194, 225 E) 148, 169

14. I II III IV V
 41 53 72 61 95
 27 8 125 125 ?
- A) 1 B) 8 C) 27 D) 64 E) 125

15. I II III IV V
 36 45 55 66 78
 ? 20 25 36 56
- A) 12 B) 14 C) 16 D) 18 E) 20

16. I II III IV V
 17 23 41 48 ?
 114 46 162 1616 ?
- A) (84, 168) B) (84, 1616) C) (84, 6416)
 D) (84, 1612) E) (84, 648)

**BÖLÜM
CHAPTER 4****SAYI DİZİLERİ
(NUMBER SERIES)****TEST-05**

1.

I	II
4	9
8	17
16	33
32	?
64	129

A) 61 B) 62 C) 63 D) 64 E) 65

2.

I	II
5	8
11	14
23	26
47	50
?	?

A) (94, 97) B) (94, 91) C) (95, 98)
D) (95, 92) E) (95, 97)

3.

I	II
4	8
6	18
10	40
18	90
?	?

A) (34, 204) B) (34, 170) C) (32, 192)
D) (32, 160) E) (34, 102)

4.

I	II
135	15
91	13
?	?
27	9
7	7

A) (99, 11) B) (77, 11) C) (55, 11)
D) (55, 10) E) (55, 9)

5.

I	II
257	240
264	249
279	266
292	281
?	?

A) 303,314 B) 303,292 C) 303,294
D) 281,290 E) 281,273

6.

I	II
1	4
6	12
21	30
66	78
?	?

A) (201, 215) B) (201, 216) C) (201, 219)
D) (198, 213) E) (198, 216)

7.

I	II
128	133
64	74
32	47
16	36
?	?

A) (8, 28) B) (8, 23) C) (4, 29)
D) (8, 33) E) (4, 33)

8.

I	II
144	64
72	32
36	16
18	8
?	?

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

9.

<u>I</u>	<u>II</u>
4	7
6	12
10	19
18	30
?	?

 A) 34, 45 B) 34, 15 C) 34, 49
 D) 36, 49 E) 36, 51

10.

<u>I</u>	<u>II</u>
9	12
19	25
39	51
79	103
?	?

 A) 159, 200 B) 159, 203 C) 159, 207
 D) 139, 203 E) 139, 207

11.

<u>I</u>	<u>II</u>
12	25
15	31
18	37
21	43
?	?

 A) 24, 48 B) 24, 49 C) 24, 50
 D) 25, 50 E) 25, 51

12.

<u>I</u>	<u>II</u>
2	4
6	9
24	28
120	125
?	?

 A) 720, 726 B) 720, 727 C) 720, 725
 D) 600, 606 E) 600, 607

13.

<u>I</u>	<u>II</u>
5	0
6	18
9	54
15	135
?	288

 A) 6 B) 12 C) 18 D) 24 E) 36

14.

<u>I</u>	<u>II</u>
1	3
2	6
8	14
?	56
384	394

 A) 24 B) 32 C) 40 D) 48 E) 56

15.

<u>I</u>	<u>II</u>
2	9
3	12
6	21
15	48
?	?

 A) 42, 126 B) 42, 129 C) 45, 135
 D) 45, 138 E) 45, 132

16.

<u>I</u>	<u>II</u>
243	240
81	78
27	24
?	?
3	0

 A) 9, 6 B) 24, 21 C) 9, 12 D) 9, 3 E) 24, 18

BÖLÜM
CHAPTER 4**SAYI DİZİLERİ**
(NUMBER SERIES)**TEST-06**

1. I. 7 9 12 16 21
II. 9 11 14 18 23
III. 12 14 17 21 26
IV. 16 18 23 ? 32
- A) 24 B) 25 C) 26 D) 27 E) 28

4. I. 2 6 14 30
II. 4 15 48 147
III. 6 28 ? 468
IV. 8 45 230 1155
- A) 112 B) 116 C) 120 D) 124 E) 128

2. I. 3 6 12 24 48
II. 5 15 45 135 405
III. 7 28 112 448 1792
IV. 9 45 ? 1125 5625
- A) 205 B) 215 C) 225 D) 235 E) 245

5. I. 30 28 24 18
II. 35 31 25 17
III. 40 34 26 16
IV. 45 ? 27 15
- A) 40 B) 39 C) 38 D) 37 E) 36

3. I. 3 5 10 8 4
II. 4 7 21 18 6
III. 5 9 36 32 8
IV. 6 11 55 ? ?
- A) 50, 10 B) 50, 5 C) 60, 6
D) 60, 12 E) 60, 10

6. I. 17 20 16 21
II. 22 27 21 28
III. 27 34 26 35
IV. 32 ? ? 42
- A) 31, 41 B) 41, 31 C) 41, 32
D) 31, 39 E) 41, 39

7. I. 4 9 45 40
 II. 4 -3 -21 -14
 III. 4 13 117 108
 IV. ? ? ? ?
- A) 4 -7 -77 -88
 B) 4 -6 -66 -55
 C) 4 -6 -66 -77
 D) 4 -7 -77 -70
 E) 4 -7 -77 -66

8. I. 2 2 8 56
 II. 3 6 30 240
 III. 4 12 72 648
 IV. ? ? ? ?
- A) 5 20 80 320
 B) 5 20 100 600
 C) 5 20 140 1400
 D) 5 20 120 840
 E) 5 20 180 1800

9. I. 6 18 21 63 66
 II. 48 12 8 2 -2
 III. 8 24 27 81 84
 IV. ? ? ? ? ?
- A) 64 60 15 11 15
 B) 64 16 12 3 -1
 C) 64 16 20 5 9
 D) 64 16 12 3 7
 E) 64 68 17 13 9

10. I. 24 12 9 36 41
 II. 36 12 8 40 46
 III. 48 12 7 42 49
 IV. ? ? ? ? ?
- A) 60 12 6 42 50
 B) 60 12 6 36 44
 C) 60 12 6 13 104
 D) 60 15 21 3 11
 E) 60 15 10 60 68

11. I. 5 10 7 14 11
 II. 6 18 14 42 38
 III. 7 28 23 92 87
 IV. ? ? ? ? ?
- A) 8 40 34 170 164
 B) 8 40 46 230 236
 C) 8 40 46 230 224
 D) 8 40 34 170 176
 E) 8 40 46 170 164

12. I. 6 12 14 28 30
 II. 24 12 10 5 3
 III. 9 27 30 90 93
 IV. ? ? ? ? ?
- A) 36 108 105 35 32
 B) 36 18 16 8 6
 C) 36 12 9 3 0
 D) 36 108 105 35 38
 E) 36 12 9 3 6

BÖLÜM
CHAPTER 4**SAYI DİZİLERİ**
(NUMBER SERIES)**TEST-07**

1. I. 25 27 31 37
II. 50 44 40 38
III. 35 38 43 50
IV. ? ? ? ?
- A) 70 63 58 50
B) 70 77 82 85
C) 70 63 68 65
D) 70 77 72 75
E) 70 63 58 55

2. I. 7 21 26 78 83
II. 8 40 43 215 218
III. 9 63 72 504 513
IV. 10 90 ? 873 880

A) 90 B) 97 C) 870 D) 877 E) 879

3. I. 6 12 16 32 36
II. 24 12 8 4 0
III. 8 32 40 160 168
IV. ? ? ? ? ?
- A) 32 8 0 0 -8
B) 32 8 16 4 12
C) 32 8 12 3 7
D) 32 8 4 1 -3
E) 32 8 64 16 8

4. I. 4 10 22 46
II. 6 14 30 62
III. 8 18 38 78
IV. ? ? ? ?
- A) 10 20 22 44
B) 10 22 46 94
C) 10 18 34 66
D) 10 22 24 48
E) 10 22 46 90

5. I. 12 24 27 108 113
II. 13 39 43 215 221
III. 14 56 61 366 373
IV. 15 75 81 ? ?

A) 567, 574 B) 567, 575 C) 486, 575
D) 486, 493 E) 486, 494

6. I. 7 10 50 57
II. 2 -5 -1 -4
III. 8 10 40 46
IV. ? ? ? ?
- A) -2 -8 -4 -4
B) -2 -8 -4 0
C) -2 -8 -2 -4
D) -2 -8 -2 2
E) -2 4 1 -1

7. I. 269 266 38 35 5 2
 II. 5 8 56 59 413 416
 III. 420 416 52 48 6 2
 IV. 6 10 80 ? 672 676
- A) 84 B) 88 C) 240 D) 320 E) 840

8. I. 65 67 71 73 77
 II. 67 73 81 87 95
 III. 85 88 93 96 101
 IV. ? ? ? ? ?
- A) 88 97 104 113 120
 B) 88 93 96 101 104
 C) 88 91 96 99 104
 D) 88 90 94 100 108
 E) 88 95 104 111 120

9. I. 3 8 16 21 42
 II. 33 27 9 3 1
 III. 6 13 52 59 236
 IV. ? ? ? ? ?
- A) 98 90 18 13 5
 B) 98 90 18 10 1
 C) 98 90 16 8 3
 D) 98 90 18 10 2
 E) 98 90 16 8 2

10. I. 6 24 24 96 96
 II. 10 10 40 40 160
 III. 7 35 70 350 700
 IV. ? ? ? ? ?
- A) 11 22 110 220 1110
 B) 11 22 110 220 1100
 C) 11 22 110 220 1010
 D) 11 11 55 55 110
 E) 11 22 22 110 550

11. I. 7 7 9 13 19
 II. 8 8 24 120 840
 III. 4 4 6 10 16
 IV. ? ? ? ? ?
- A) 5 5 15 75 225
 B) 5 10 40 240 1920
 C) 5 5 15 75 525
 D) 5 15 75 225 375
 E) 5 10 15 20 25

12. I. 3 10 9 14 11 14 9
 II. 21 14 15 10 13 10 15
 III. 4 12 10 16 12 16 10
 IV. ? ? ? ? ? ? ?
- A) 32 24 26 20 16 20 14
 B) 32 24 20 26 16 20 26
 C) 32 24 26 20 16 20 20
 D) 32 26 24 20 16 20 26
 E) 32 24 26 20 16 20 26

BÖLÜM
CHAPTER 4**SAYI DİZİLERİ**
(NUMBER SERIES)**TEST-08**

Aşağıdaki dizilerde kuralı bozan sayıyı bulunuz.
Which number breaks the rule in the sequence below.

1. 55 57 60 64 69 75 77 90 99
A) 65 B) 71 C) 77 D) 86 E) 95

2. 2 4 12 24 72 74 432 864
A) 12 B) 24 C) 72 D) 74 E) 432

3. 67 69 73 79 88 97 109 123 139
A) 88 B) 97 C) 109 D) 123 E) 139

4. 54 18 72 24 96 23 128
A) 72 B) 24 C) 96 D) 23 E) 128

5. 7 5 15 13 38 37 101 99
A) 7 B) 5 C) 15 D) 13 E) 38

6. 4 12 15 5 2 6 9 3 1
A) 2 B) 6 C) 9 D) 3 E) 1

7. 25 27 29 26 28 31 27 29
A) 25 B) 27 C) 29 D) 26 E) 28

8. 7 14 13 18 36 35 40 80 78 84
A) 40 B) 80 C) 78 D) 84 E) 7

9. 17 25 32 37 46 52 57 65
A) 17 B) 25 C) 32 D) 37 E) 46

10. 3 7 14 15 18 38 39 53 106
A) 18 B) 38 C) 39 D) 53 E) 106

11. 5 11 23 47 95 190 383

A) 23 B) 47 C) 95 D) 190 E) 383

12. 2 5 14 41 121 365

A) 5 B) 14 C) 41 D) 121 E) 36

13. 25 37 26 36 27 35 28 34 30 33

A) 37 B) 25 C) 35 D) 30 E) 33

14. 243 237 244 236 246 234 249 230

A) 246 B) 234 C) 249 D) 230 E) 243

15. 2 4 3 7 5 14 9 25 17 59

A) 14 B) 9 C) 23 D) 17 E) 59

16. 29 31 37 44 47 52 59 62

A) 29 B) 31 C) 37 D) 44 E) 47

17. 68 69 66 70 65 71 64

A) 65 B) 70 C) 66 D) 69 E) 68

18. 93 77 88 82 83 87 78 92 72

A) 72 B) 92 C) 78 D) 87 E) 83

19. 9 -17 4 -12 -1 -7 -6 -2 -11 4 -16

A) -2 B) 11 C) 4 D) -16 E) 9

20. 4 -1 -2 -6 -8 -12 -17 -19 -26 -27 -36

A) -2 B) -6 C) -8 D) -12 E) -17

BÖLÜM CHAPTER 4

SAYI DİZİLERİ (NUMBER SERIES)

TEST-09

1.-8. sorularda verilen sayı dizilerinin üç tanesi aynı veya benzer kurala göre dizilmiştir. Bunlar hangileridir? In questions 1.-8. there of the given number series are ordered according to the same or similar rule. Find these number series.

1. I. 7 9 13 19
II. 7 10 16 25
III. 7 9 13 7
IV. 7 11 19 35
V. 7 11 19 31

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

2. I. 10 20 22 11
II. 15 30 32 30
III. 20 60 63 21
IV. 25 100 104 26
V. 80 150 145 29

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

3. I. 2 4 12 48
II. 4 12 48 240
III. 6 12 36 18
IV. 8 16 13 52
V. 9 36 180 1080

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

4. I. 5 11 23
II. 4 9 19
III. 8 17 33
IV. 7 15 31
V. 9 17 33

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

5. I. 2 4 10 28
II. 3 11 35 107
III. 4 14 44 134
IV. 5 13 37 109
V. 6 20 62 188

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

6. I. 3 6 9 6
II. 4 8 11 16
III. 5 10 13 9
IV. 6 18 24 15
V. 7 14 18 12

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

7. I. 4 8 11 44 39
II. 5 10 13 52 47
III. 6 12 15 60 65
IV. 7 14 17 68 73
V. 8 16 19 76 81

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

8. I. 2 3 7 13 27
II. 3 7 19 55 153
III. 4 7 13 25 49
IV. 5 17 65 257 1025
V. 6 13 27 55 111

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

9.-16. sorularda verilen üç sayı arasındaki kural cevap şıklarından hangi üç sayı arasında vardır?
In questions 9.-16. the rule is given between the first three number. Find the numbers which are the same rule.

9. 27 35 31

- A) 7 12 38
B) 15 17 64
C) 21 19 80
D) 17 5 6
E) 25 49 37

10. 42 17 48

- A) 21 11 2
B) 26 42 96
C) 96 41 3
D) 27 36 81
E) 15 57 175

11. 12 9 235

- A) 7 2 45
B) 13 4 185
C) 5 1 24
D) 15 9 48
E) 3 7 100

12. 93 13 30

- A) 18 34 20
B) 45 18 18
C) 17 33 48
D) 70 29 18
E) 25 23 4

13. 5 25 100

- A) 7 3 346
B) 6 16 232
C) 5 4 61
D) 4 12 52
E) 3 2 19

14. 35 22 39

- A) 25 14 22
B) 18 2 60
C) 25 5 90
D) 17 12 10
E) 47 32 45

15. 84 29 49

- A) 75 42 72
B) 84 17 47
C) 25 37 23
D) 56 47 54
E) 25 17 51

16. 72 15 145

- A) 17 24 178
B) 45 24 96
C) 62 42 128
D) 15 24 66
E) 94 73 54

1. 0, 1, 2, 6, 21, ?, 3410
A) 151 B) 152 C) 153 D) 154 E) 155

2. 8, 16, 21, 12, 15, 36, 63, ?
A) 54 B) 63 C) 72 D) 81 E) 90

3. 1 8 9 64 25 216 49 512 ?
A) 9 B) 81 C) 125 D) 343 E) 729

4. 2 4 8 11 20 24 40 45 ?
A) 50 B) 60 C) 70 D) 80 E) 9

5. 11 13 17 25 32 37 47 ?
A) 57 B) 58 C) 67 D) 68 E) 69

6. 1 2 6 15 31 56 92 ?
A) 121 B) 131 C) 141 D) 151 E) 161

7. 2 6 3 $\frac{1}{2}$ $\frac{1}{6}$ $\frac{1}{3}$?
A) 2 B) 4 C) 6 D) 8 E) 10

8. 27 41 45 65 95 140 ?
A) 150 B) 148 C) 147 D) 146 E) 140

9. 1 2 10 37 101 226 ?
A) 440 B) 442 C) 444 D) 446 E) 448

10. 1 2 5 12 29 70 ?
A) 159 B) 169 C) 179 D) 189 E) 199

11. $\frac{3}{11}$ $\frac{2}{5}$ $\frac{5}{9}$ $\frac{3}{4}$ 1 ?

- A) $\frac{4}{3}$ B) $\frac{3}{4}$ C) $\frac{5}{2}$ D) $\frac{6}{5}$ E) $\frac{7}{6}$

12. 6 $\frac{5}{8}$ 2 $\frac{5}{4}$ $\frac{2}{3}$ $\frac{5}{2}$ $\frac{2}{9}$ 5 ? ?

- A) $(\frac{2}{27}, 9)$ B) $(\frac{2}{18}, 10)$ C) $(\frac{2}{18}, 9)$
D) $(\frac{2}{27}, 10)$ E) (2, 10)

13. $\frac{1}{3}$ $\frac{4}{3}$ 3 $\frac{16}{3}$ $\frac{25}{3}$ 12 $\frac{49}{3}$ $\frac{64}{3}$?

- A) 27 B) 16 C) 8 D) 4 E) 2

14. 42 26 68 94 53 38 ?

- A) 86 B) 89 C) 90 D) 91 E) 92

15. 2 5 10 17 26 37 50 ?

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

16. 3 4 8 17 78 130 193 287 ?

- A) 330 B) 331 C) 332 D) 333 E) 334

17. 12 6 36 18 324 ?

- A) 152 B) 161 C) 162 D) 167 E) 172

18. 43 34 38 83 86 68 ?

- A) 74 B) 76 C) 78 D) 80 E) 82

19. 10, 20, 12, 13, 23, 15, 34, ?

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

20. 3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 32, ?

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

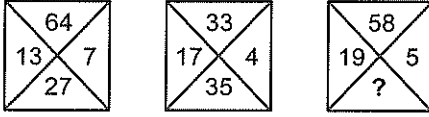
BÖLÜM 5

CHAPTER 5

SAYI ŞEKİL İLİŞKİLERİ

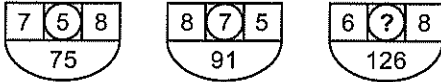
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1.



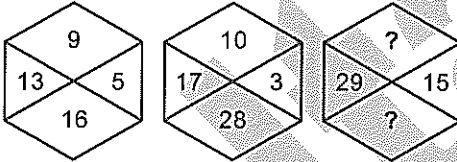
- A) 17 B) 27 C) 37 D) 47 E) 57

2.



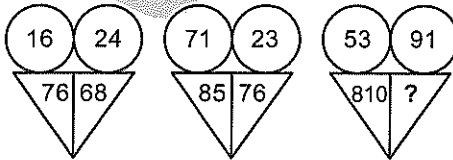
- A) 5 B) 6 C) 7 D) 8 E) 9

3.



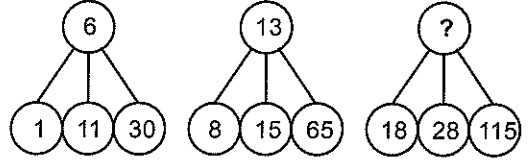
- A) 22,24 B) 22,28 C) 22,30
D) 24,28 E) 24,22

4.



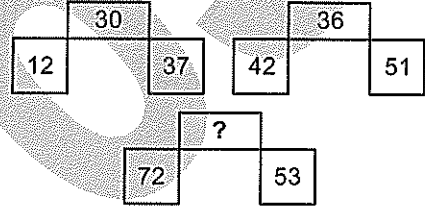
- A) 159 B) 815 C) 27 D) 1510 E) 819

5.



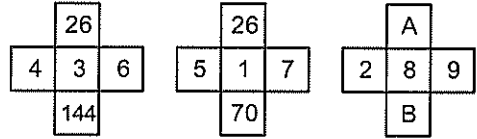
- A) 20 B) 21 C) 22 D) 23 E) 24

6.



- A) 53 B) 63 C) 72 D) 81 E) 90

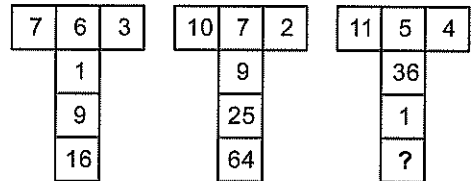
7.



$B - A = ?$

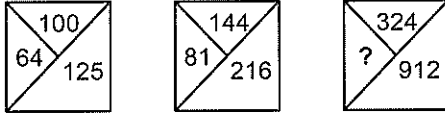
- A) 106 B) 125 C) 269 D) 279 E) 250

8.



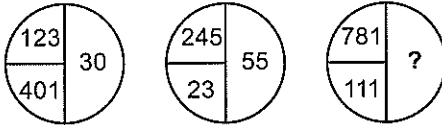
- A) 25 B) 36 C) 49 D) 64 E) 81

9.



- A) 100 B) 121 C) 144 D) 169 E) 196

10.



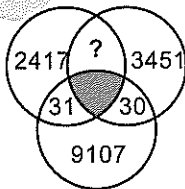
- A) 16 B) 24 C) 32 D) 36 E) 48

11.



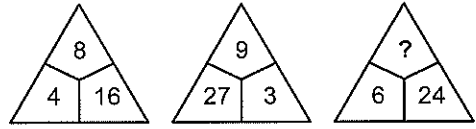
- A) 4 B) 16 C) 25 D) 36 E) 49

12.



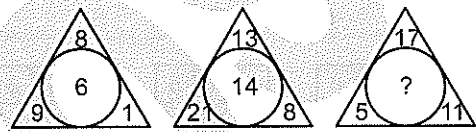
- A) 14 B) 13 C) 17 D) 27 E) 28

13.



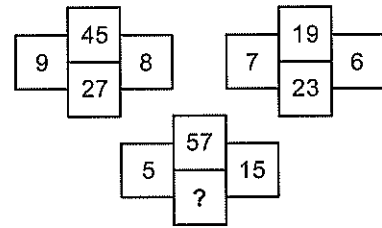
- A) 3 B) 6 C) 9 D) 12 E) 24

14.



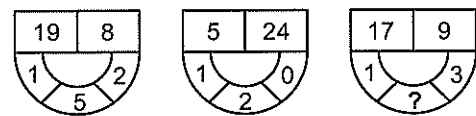
- A) 9 B) 10 C) 11 D) 12 E) 13

15.



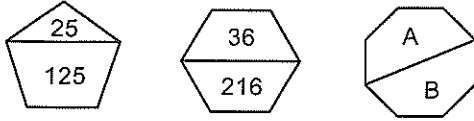
- A) 18 B) 38 C) 58 D) 67 E) 75

16.



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

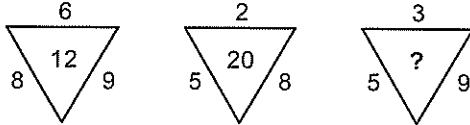
1.



$A + B = ?$

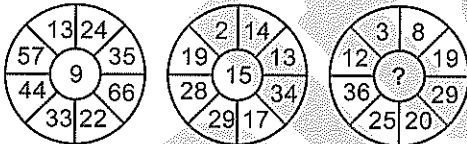
- A) 64 B) 128 C) 256 D) 512 E) 576

2.



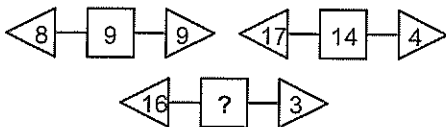
- A) 10 B) 12 C) 13 D) 14 E) 15

3.



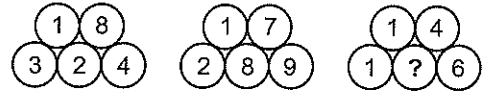
- A) 17 B) 18 C) 19 D) 20 E) 21

4.



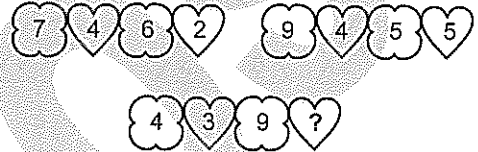
- A) 5 B) 6 C) 8 D) 10 E) 12

5.



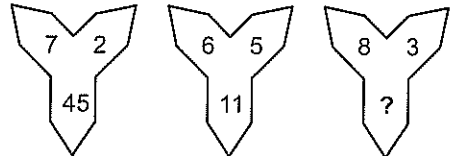
- A) 9 B) 8 C) 7 D) 6 E) 5

6.



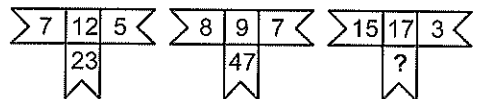
- A) 7 B) 6 C) 5 D) 4 E) 3

7.



- A) 65 B) 55 C) 45 D) 35 E) 25

8.



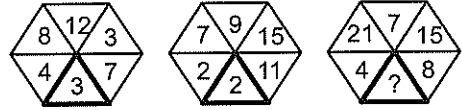
- A) 8 B) 18 C) 28 D) 38 E) 48

9.



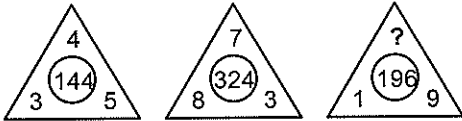
- A) 6 B) 9 C) 15 D) 18 E) 20

13.



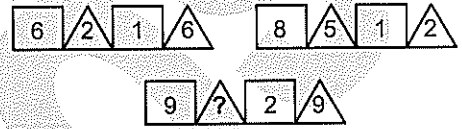
- A) 0 B) 1 C) 2 D) 3 E) 4

10.



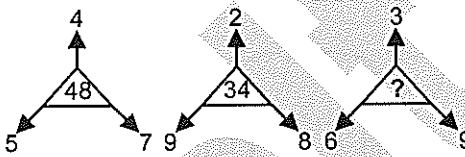
- A) 1 B) 2 C) 3 D) 4 E) 5

14.



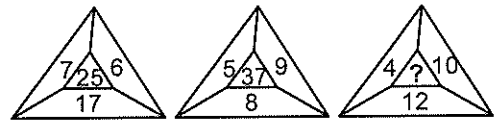
- A) 3 B) 5 C) 7 D) 9 E) 11

11.



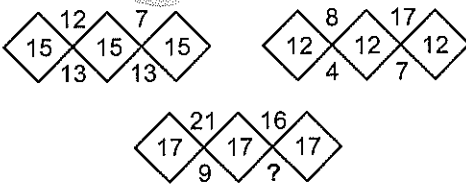
- A) 15 B) 30 C) 45 D) 60 E) 75

15.



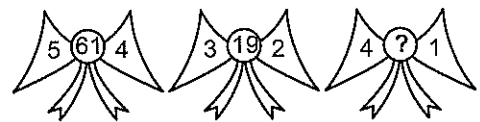
- A) 8 B) 18 C) 28 D) 38 E) 48

12.



- A) 4 B) 5 C) 9 D) 13 E) 15

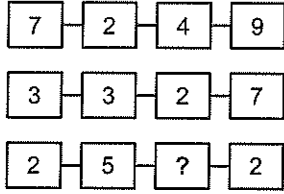
16.



- A) 61 B) 62 C) 63 D) 64 E) 65

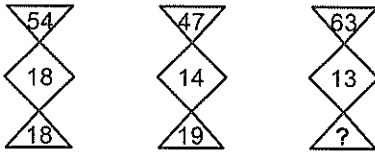
E E A E A B B C C D C B E C C C

1.



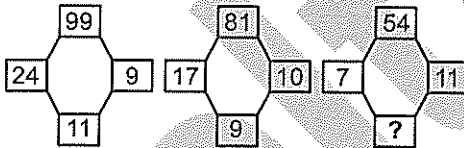
- A) 1 B) 2 C) 3 D) 4 E) 5

2.



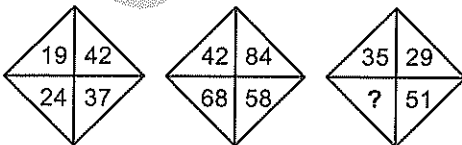
- A) 17 B) 27 C) 37 D) 47 E) 57

3.



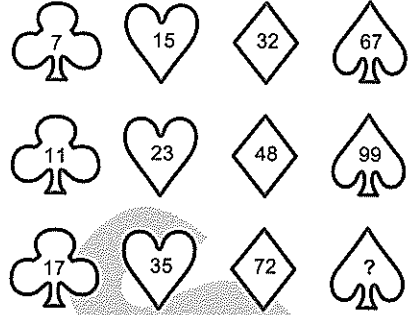
- A) 5 B) 6 C) 7 D) 8 E) 9

4.



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

5.



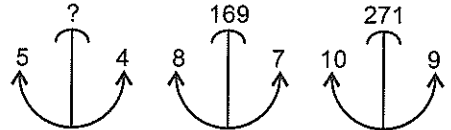
- A) 144 B) 145 C) 146 D) 147 E) 148

6.



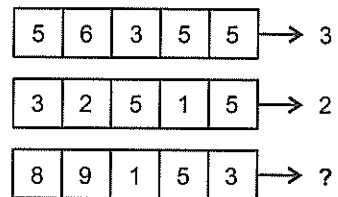
- A) 17 B) 18 C) 19 D) 20 E) 21

7.



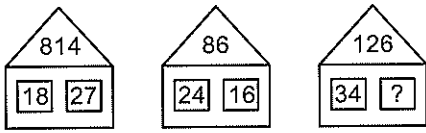
- A) 61 B) 51 C) 41 D) 63 E) 53

8.



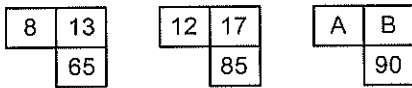
- A) 1 B) 2 C) 3 D) 4 E) 5

9.



- A) 60 B) 61 C) 24 D) 41 E) 42

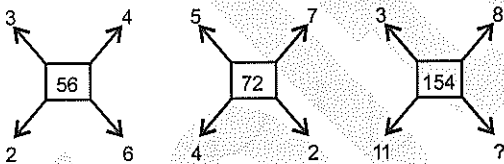
10.



A+B = ?

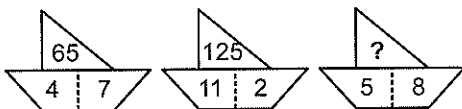
- A) 30 B) 31 C) 32 D) 33 E) 34

11.



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

12.



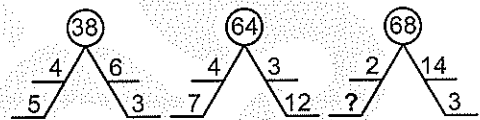
- A) 110 B) 100 C) 99 D) 89 E) 79

13.



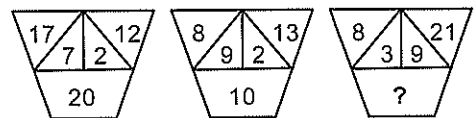
- A) 3 B) 6 C) 9 D) 12 E) 15

14.



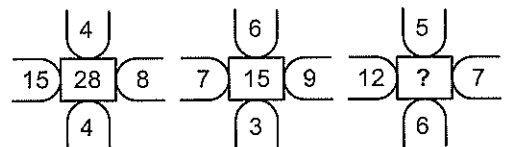
- A) 13 B) 14 C) 15 D) 16 E) 17

15.



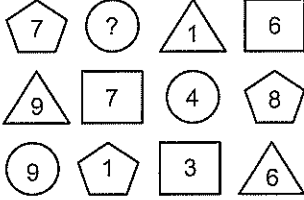
- A) 7 B) 13 C) 17 D) 23 E) 27

16.



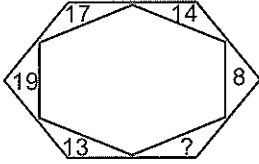
- A) 8 B) 12 C) 18 D) 24 E) 30

1.



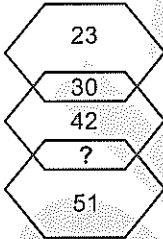
- A) 2 B) 3 C) 4 D) 5 E) 6

2.



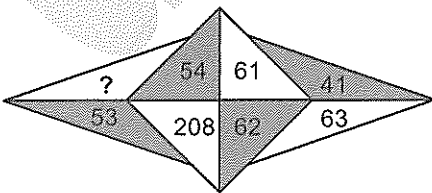
- A) 7 B) 8 C) 9 D) 10 E) 17

3.



- A) 9 B) 18 C) 27 D) 45 E) 54

4.



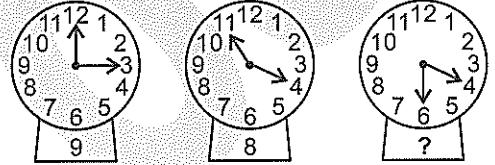
- A) 98 B) 97 C) 99 D) 100 E) 108

5.



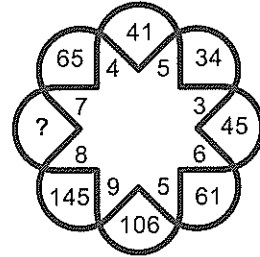
- A) 17 B) 15 C) 13 D) 11 E) 9

6.



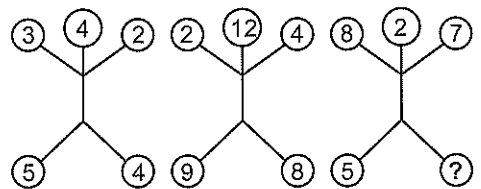
- A) 3 B) 6 C) 9 D) 12 E) 15

7.



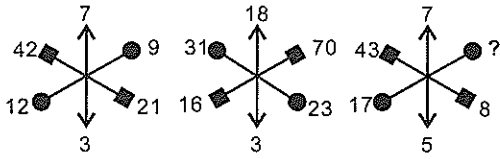
- A) 103 B) 113 C) 123 D) 125 E) 114

8.



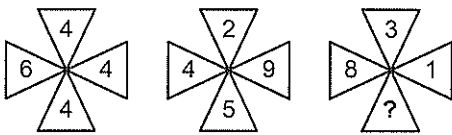
- A) 4 B) 5 C) 6 D) 7 E) 8

9.



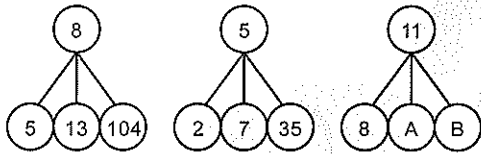
- A) 8 B) 18 C) 28 D) 38 E) 48

10.



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

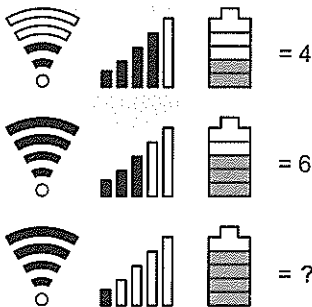
11.



$A + B = ?$

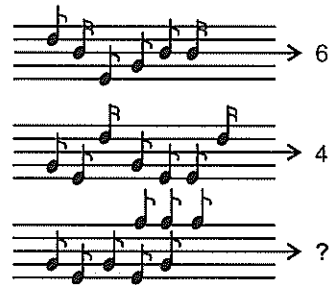
- A) 224 B) 226 C) 228 D) 230 E) 232

12.



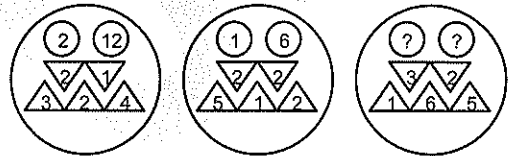
- A) 2 B) 4 C) 6 D) 8 E) 9

13.



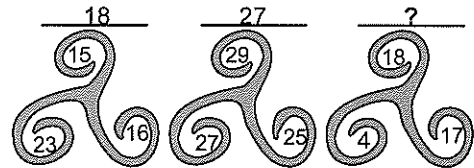
- A) 5 B) 7 C) 8 D) 10 E) 15

14.



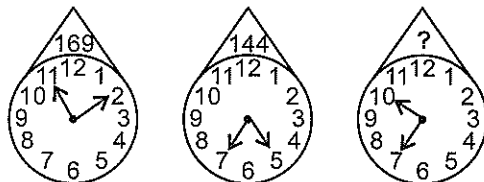
- A) (9) (8) B) (8) (9) C) (7) (0)
D) (0) (7) E) (17) (9)

15.



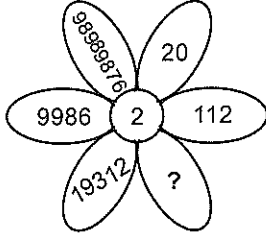
- A) 12 B) 13 C) 14 D) 15 E) 16

16.



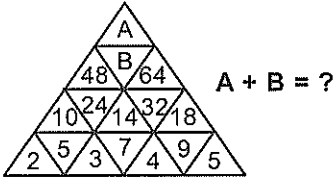
- A) 196 B) 225 C) 256 D) 289 E) 324

1.



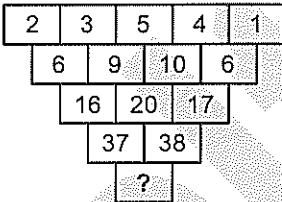
- A) 1834 B) 7010 C) 127 D) 8910 E) 8020

2.



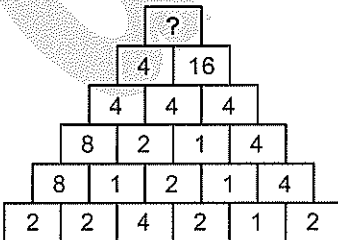
- A) 306 B) 316 C) 326 D) 336 E) 346

3.



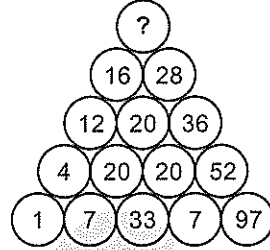
- A) 65 B) 66 C) 75 D) 76 E) 86

4.



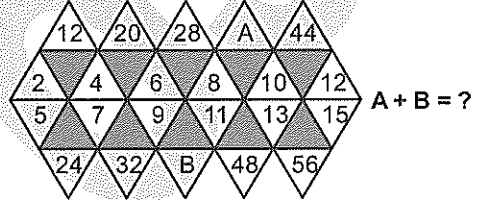
- A) 4 B) 8 C) 16 D) 92 E) 64

5.



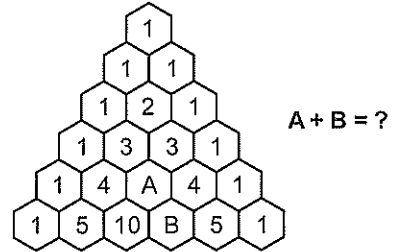
- A) 20 B) 21 C) 22 D) 23 E) 24

6.



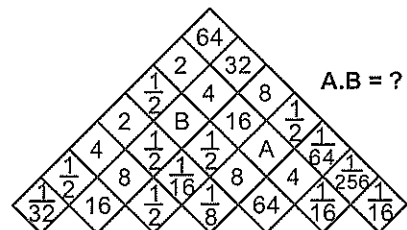
- A) 72 B) 74 C) 76 D) 78 E) 80

7.



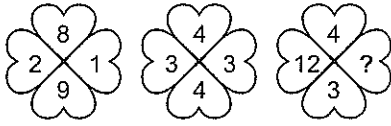
- A) 5 B) 6 C) 15 D) 16 E) 17

8.



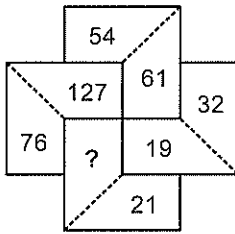
- A) 4 B) 8 C) 16 D) 32 E) 64

9.



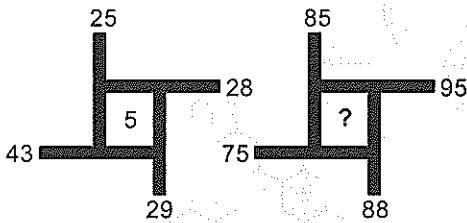
- A) 0 B) 1 C) 2 D) 3 E) 4

10.



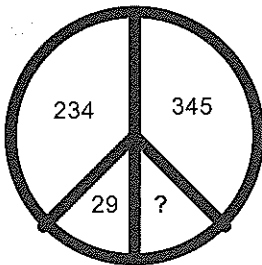
- A) 6 B) 7 C) 8 D) 9 E) 10

11.



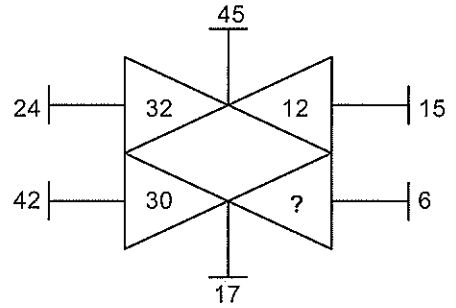
- A) 3 B) 4 C) 5 D) 6 E) 7

12.



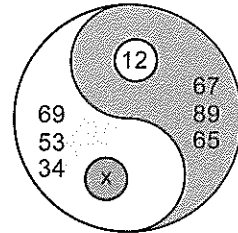
- A) 49 B) 50 C) 52 D) 53 E) 55

13.



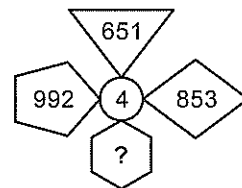
- A) 7 B) 8 C) 9 D) 10 E) 11

14.



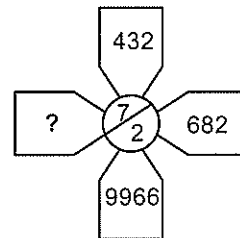
- A) 8 B) 9 C) 10 D) 11 E) 12

15.



- A) 987 B) 988 C) 989 D) 778 E) 887

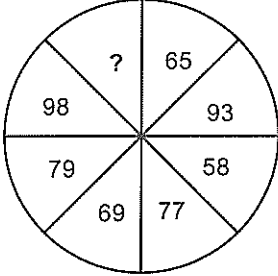
16.



- A) 332 B) 982 C) 5212 D) 89767 E) 97947

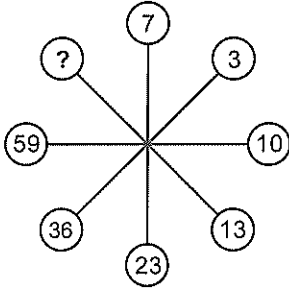
B D D E C C D B B B E B E B A D

1.



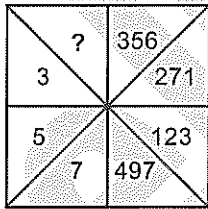
- A) 18 B) 39 C) 59 D) 79 E) 99

2.



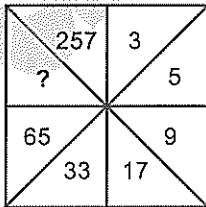
- A) 85 B) 87 C) 95 D) 97 E) 105

3.



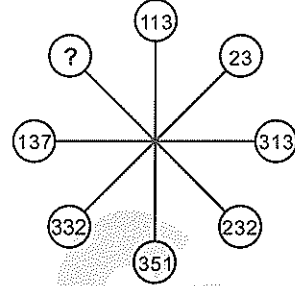
- A) 8 B) 9 C) 10 D) 11 E) 12

4.



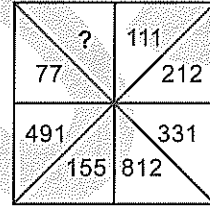
- A) 120 B) 121 C) 127 D) 129 E) 131

5.



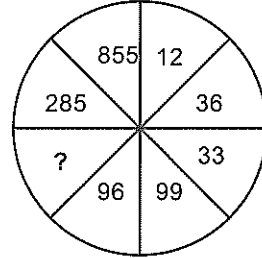
- A) 326 B) 344 C) 342 D) 327 E) 328

6.



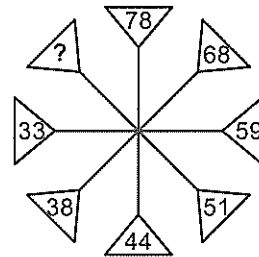
- A) 416 B) 442 C) 428 D) 648 E) 618

7.



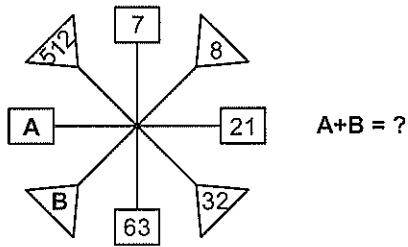
- A) 282 B) 284 C) 286 D) 288 E) 232

8.



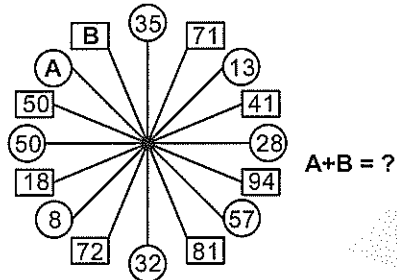
- A) 19 B) 21 C) 23 D) 25 E) 29

9.



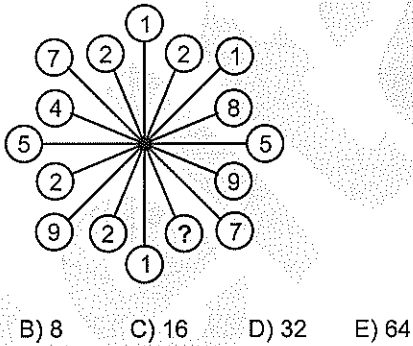
- A) 320 B) 317 C) 322 D) 323 E) 324

10.



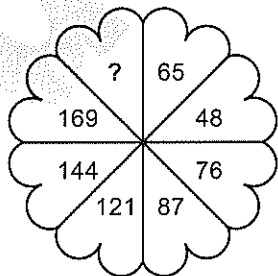
- A) 160 B) 170 C) 180 D) 190 E) 200

11.



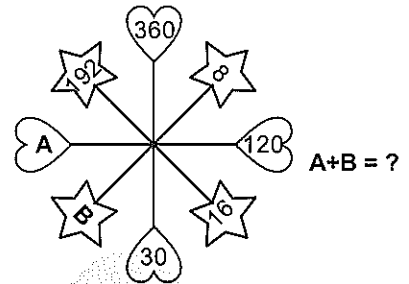
- A) 2 B) 8 C) 16 D) 32 E) 64

12.



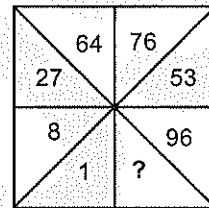
- A) 196 B) 225 C) 256 D) 289 E) 324

13.



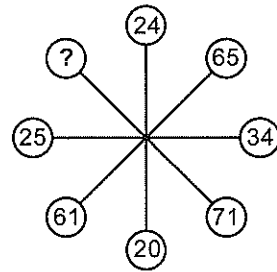
- A) 42 B) 48 C) 54 D) 60 E) 66

14.



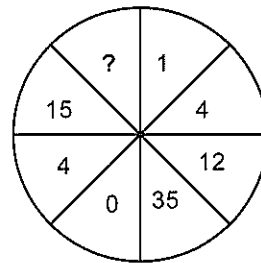
- A) 85 B) 94 C) 72 D) 61 E) 73

15.



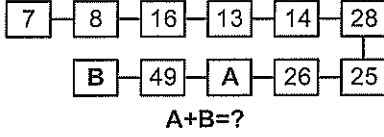
- A) 49 B) 50 C) 51 D) 52 E) 53

16.



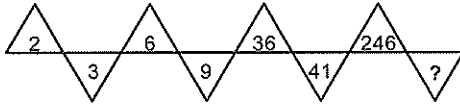
- A) 27 B) 29 C) 31 D) 33 E) 35

1.



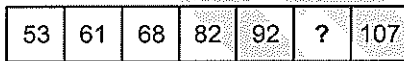
- A) 100 B) 101 C) 102 D) 103 E) 104

2.



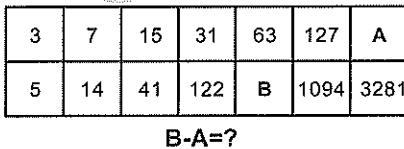
- A) 250 B) 251 C) 252 D) 253 E) 254

3.



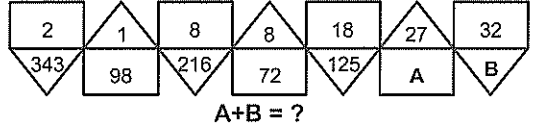
- A) 100 B) 101 C) 102 D) 103 E) 104

4.



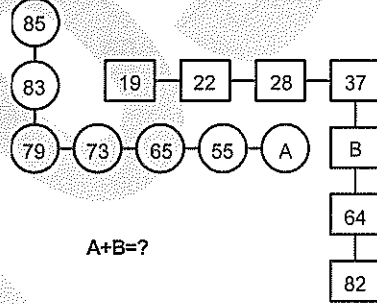
- A) 102 B) 104 C) 106 D) 108 E) 110

5.



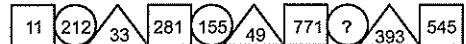
- A) 104 B) 114 C) 124 D) 134 E) 144

6.



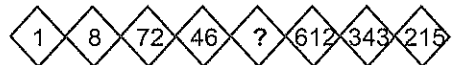
- A) 90 B) 91 C) 92 D) 93 E) 94

7.



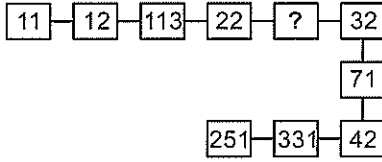
- A) 248 B) 288 C) 268 D) 128 E) 148

8.



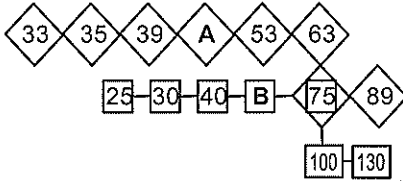
- A) 125 B) 512 C) 521 D) 225 E) 522

9.



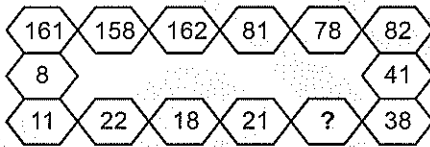
- A) 23 B) 32 C) 15 D) 14 E) 41

10.



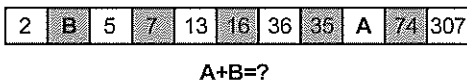
- A) 90 B) 95 C) 100 D) 105 E) 110

11.



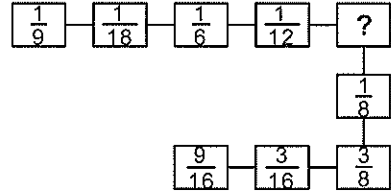
- A) 42 B) 19 C) 76 D) 35 E) 41

12.



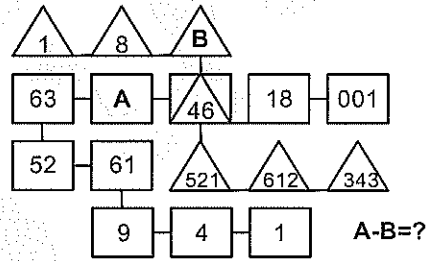
- A) 100 B) 103 C) 104 D) 105 E) 107

13.



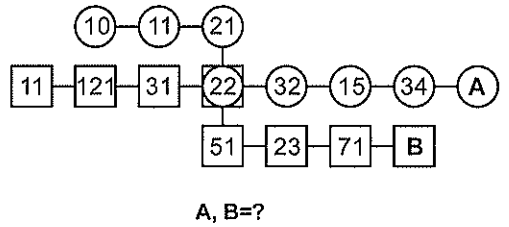
- A) $\frac{1}{24}$ B) $\frac{1}{36}$ C) $\frac{4}{3}$ D) $\frac{1}{4}$ E) $\frac{3}{4}$

14.



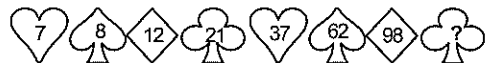
- A) 22 B) 23 C) 24 D) 25 E) 26

15.



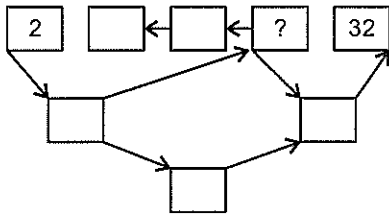
- A) 42,18 B) 42,44 C) 62,24
D) 81,18 E) 71,44

16.



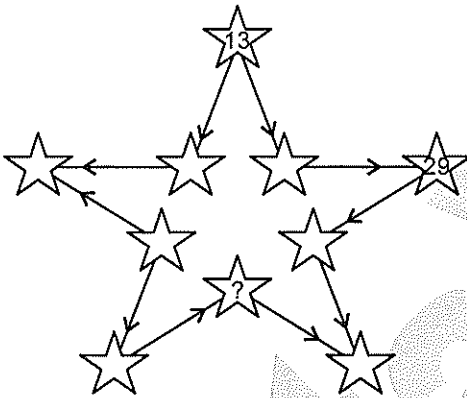
- A) 146 B) 147 C) 136 D) 137 E) 157

7.



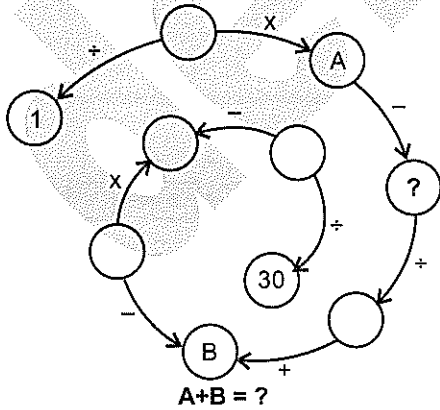
- A) 2 B) 4 C) 6 D) 8 E) 10

8.



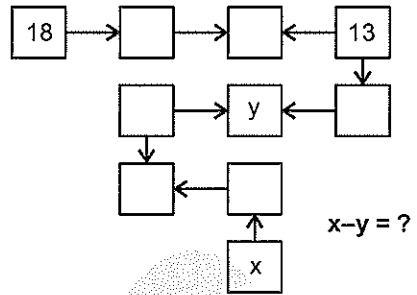
- A) 13 B) 21 C) 29 D) 37 E) 45

9.



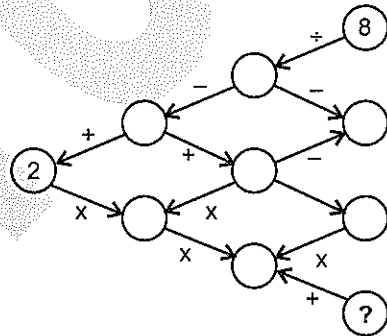
- A) 100 B) 109 C) 119 D) 129 E) 229

10.



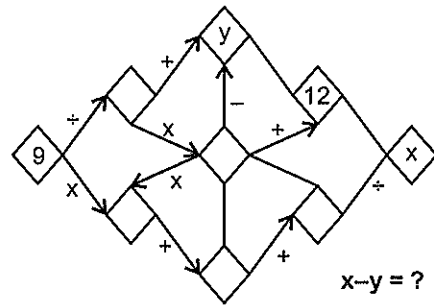
- A) 10 B) 13 C) 15 D) 16 E) 18

11.



- A) 24 B) 28 C) 32 D) 36 E) 40

12.



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

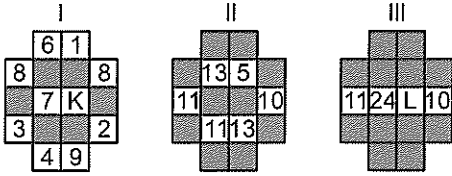
E	E	A	D	E	C	D	D	C	A	B	C
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BÖLÜM
CHAPTER 5

SAYI ŞEKİL İLİŞKİLERİ
(NUMBER-FIGURE RELATIONS)

TEST-09

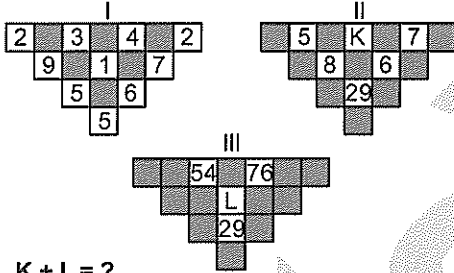
1.



$L - K = ?$

- A) 18 B) 14 C) 10 D) 6 E) 4

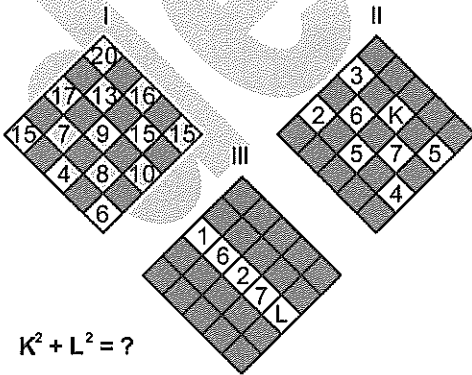
2.



$K + L = ?$

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

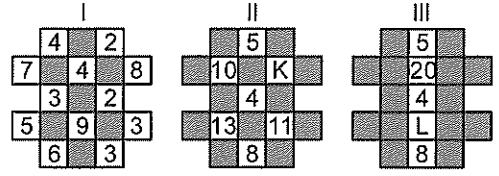
3.



$K^2 + L^2 = ?$

- A) 8 B) 49 C) 50 D) 41 E) 61

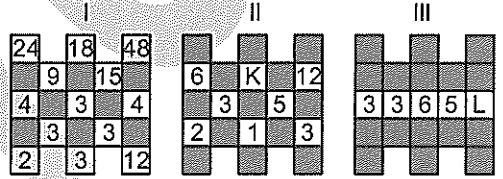
4.



$K.L = ?$

- A) 253 B) 254 C) 255 D) 256 E) 257

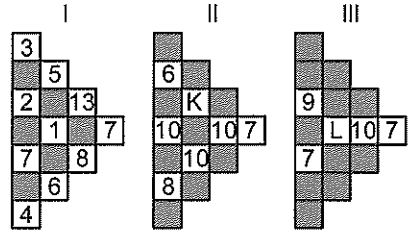
5.



$K^2 - L^2 = ?$

- A) 15 B) 18 C) 20 D) 22 E) 23

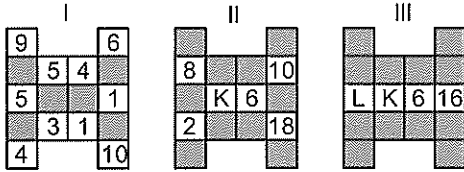
6.



$K - L = ?$

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

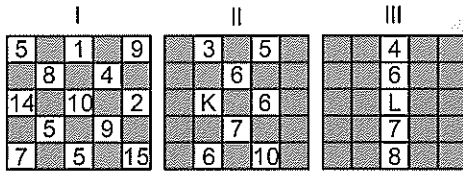
7.



K.L = ?

- A) 12 B) 24 C) 36 D) 48 E) 60

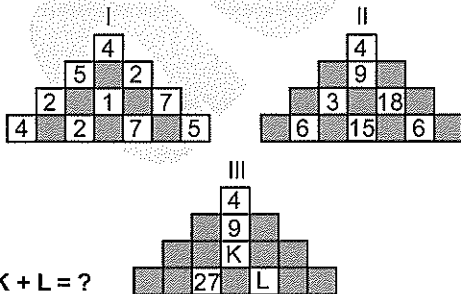
8.



K - L = ?

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

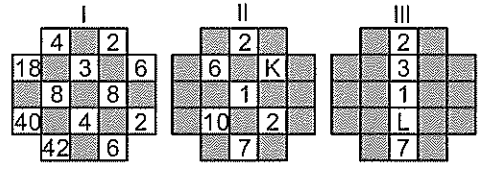
9.



K + L = ?

- A) 18 B) 27 C) 45 D) 72 E) 99

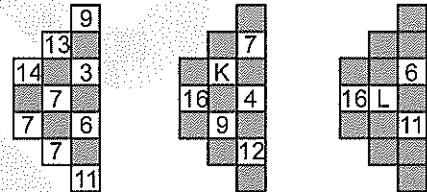
10.



K.L = ?

- A) 10 B) 6 C) 5 D) 2 E) 1

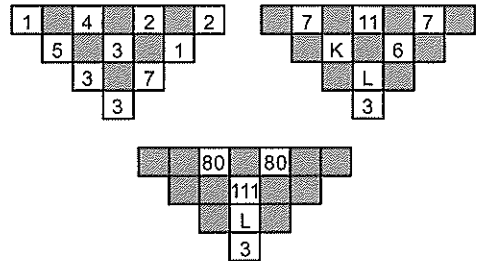
11.



K + L = ?

- A) 15 B) 19 C) 23 D) 24 E) 34

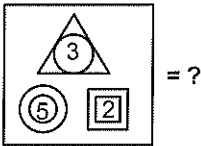
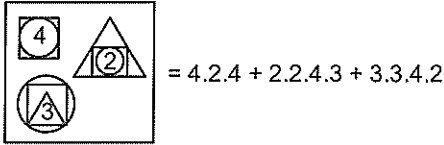
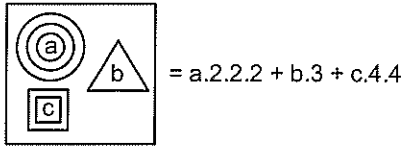
12.



K + L = ?

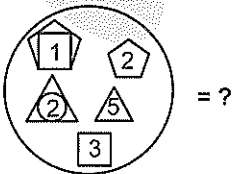
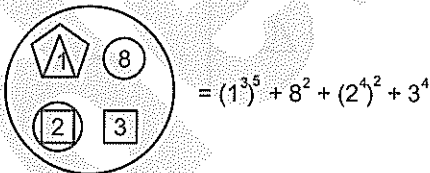
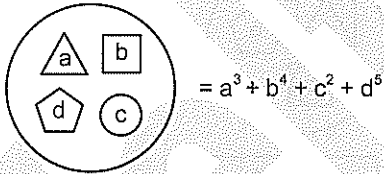
- A) 18 B) 24 C) 32 D) 42 E) 52

1.



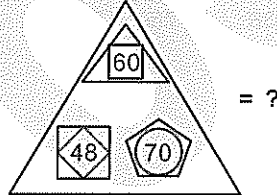
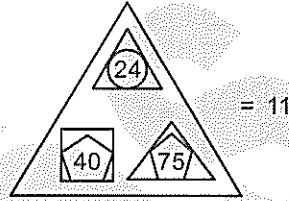
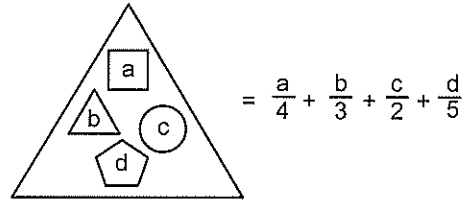
- A) 70 B) 72 C) 74 D) 76 E) 78

2.



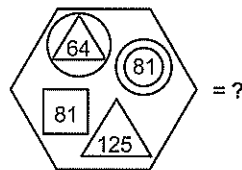
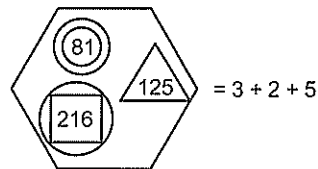
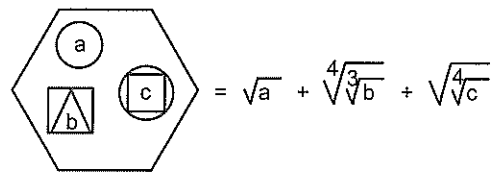
- A) 323 B) 313 C) 303 D) 223 E) 203

3.



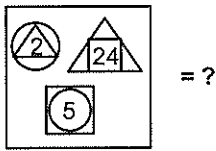
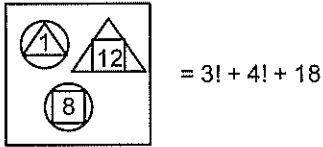
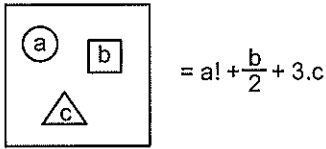
- A) 12 B) 13 C) 14 D) 15 E) 16

4.



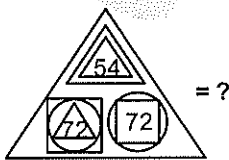
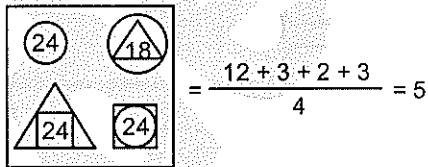
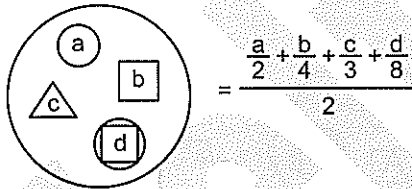
- A) 12 B) 13 C) 14 D) 15 E) 16

5.



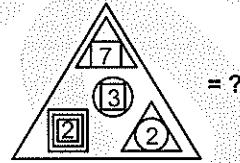
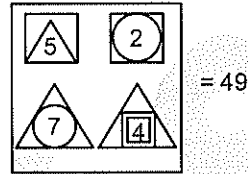
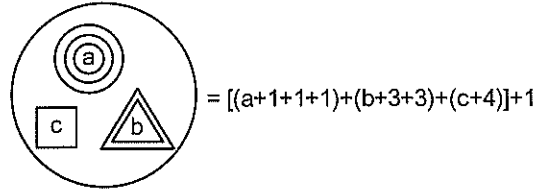
- A) 720 B) 736 C) 780 D) 496 E) 816

6.



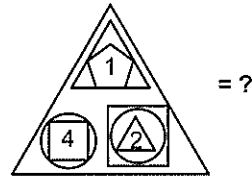
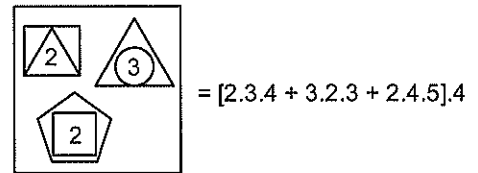
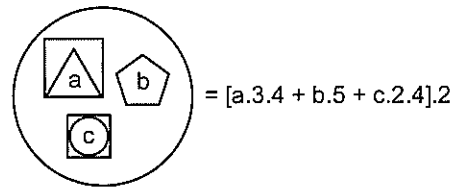
- A) 3 B) 6 C) 9 D) 12 E) 18

7.



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

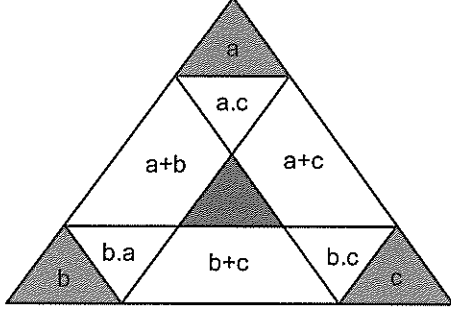
8.



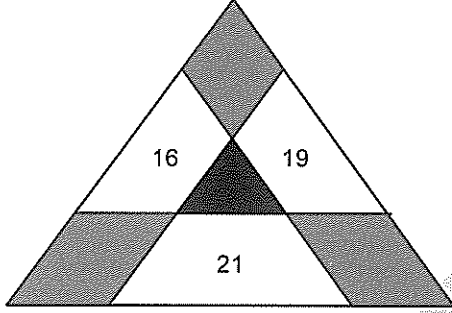
- A) 285 B) 265 C) 195 D) 95 E) 85

A	C	D	B	E	B	E	A
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1 ve 2. soruları aşağıdaki şablona göre çözünüz.



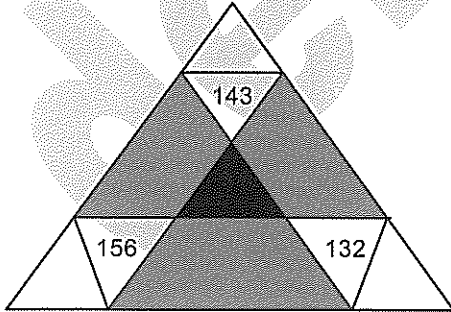
1.



$$a^2 = ?$$

- A) 9 B) 16 C) 25 D) 36 E) 49

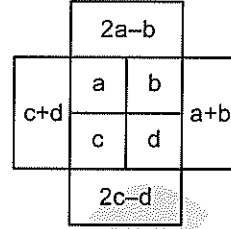
2.



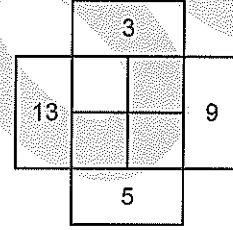
$$a+b+c = ?$$

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

3 ve 4. soruları aşağıdaki şablona göre çözünüz.



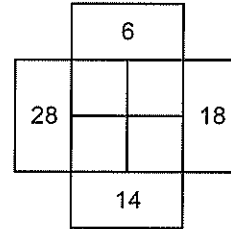
3.



$$a+c = ?$$

- A) 30 B) 28 C) 21 D) 15 E) 10

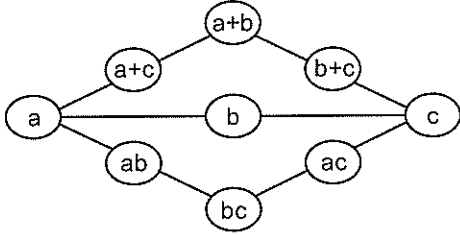
4.



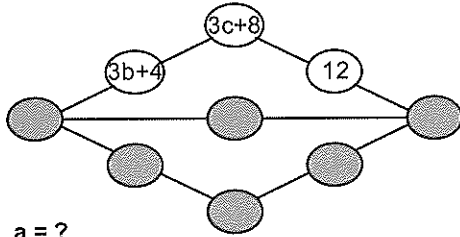
$$b+d = ?$$

- A) 10 B) 14 C) 18 D) 24 E) 26

5 ve 6. soruları aşağıdaki şablona göre çözünüz.



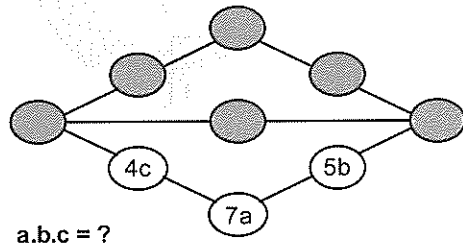
5.



$a = ?$

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

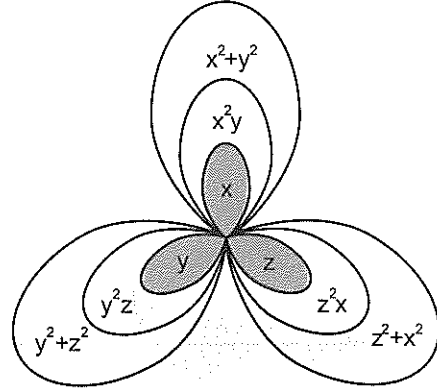
6.



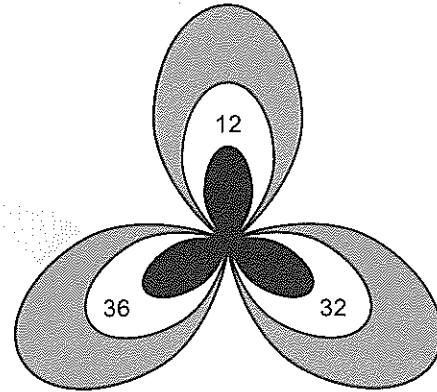
$a.b.c = ?$

- A) 20 B) 28 C) 35 D) 70 E) 140

7 ve 8. soruları aşağıdaki şablona göre çözünüz.



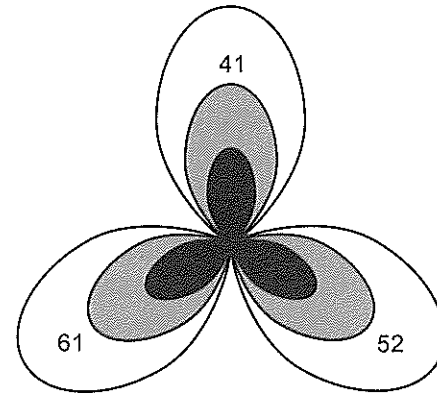
7.



$x.y.z = ?$

- A) 6 B) 8 C) 12 D) 24 E) 36

8.

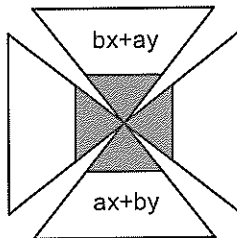
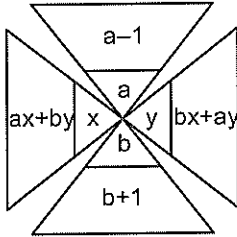


$x+y+z = ?$

- A) 9 B) 10 C) 11 D) 13 E) 15

E	A	E	D	D	E	D	E
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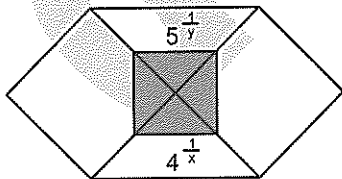
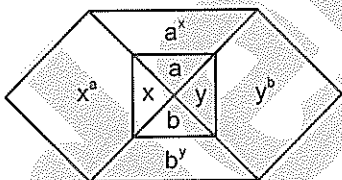
1.



$x = ?$

- A) $\frac{1}{y}$ B) $1+y$ C) $\frac{1}{1-y}$ D) $1-y$ E) $\frac{1}{a-b}$

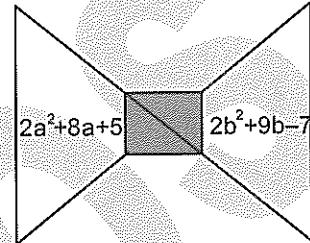
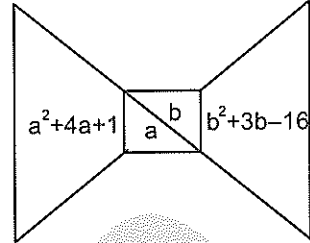
2.



$(ab)^{x \cdot y} = ?$

- A) 9 B) 12 C) 16 D) 20 E) 25

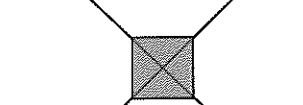
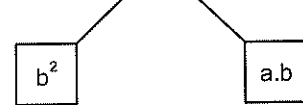
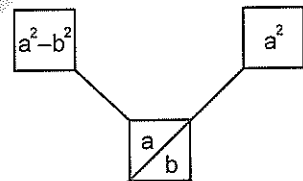
3.



$a \cdot b = ?$

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

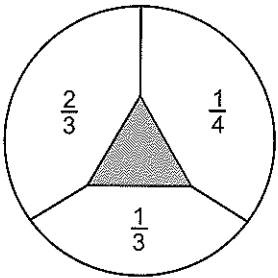
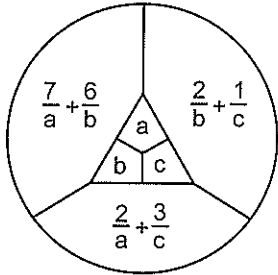
4.



$K+L-M = ?$

- A) 201 B) 211 C) 221 D) 613 E) 631

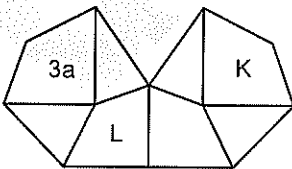
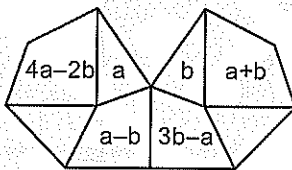
5.



$a = ?$

- A) 24 B) 28 C) 36 D) 39 E) 42

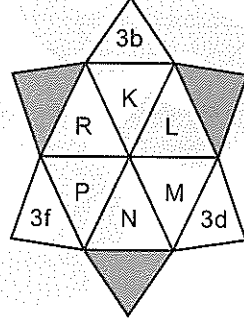
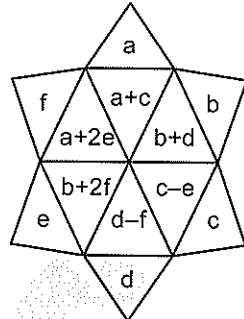
6.



$\frac{K}{L} = ?$

- A) 1 B) $\frac{1}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

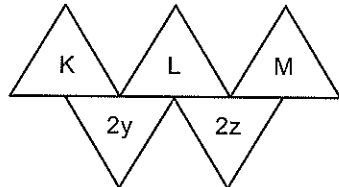
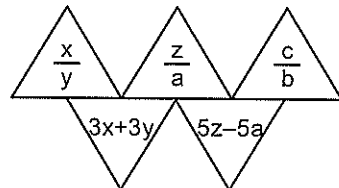
7.



$\frac{K}{L} \cdot \frac{M}{N} \cdot \frac{R}{P} = ?$

- A) $\frac{1}{9}$ B) $\frac{1}{3}$ C) 3 D) 9 E) 27

8.

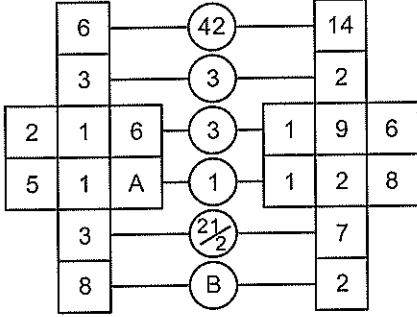


$\frac{K \cdot L}{M} = -\frac{1}{5} \Rightarrow M = ?$

- A) $\frac{5}{3}$ B) $\frac{25}{9}$ C) $\frac{3}{5}$ D) $\frac{9}{25}$ E) $\frac{3}{25}$

D	D	E	B	C	E	E	B
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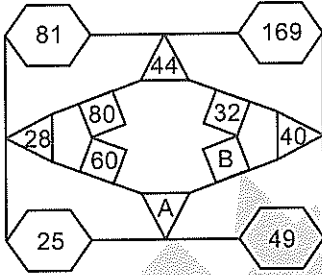
1.



$A+B = ?$

- A) 10 B) 16 C) 18 D) 20 E) 22

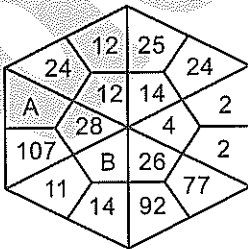
2.



$A+B = ?$

- A) 12 B) 24 C) 36 D) 48 E) 60

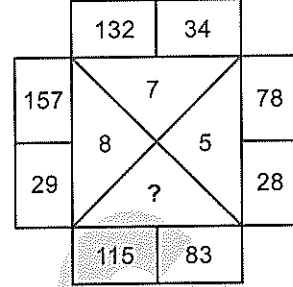
3.



$A+B = ?$

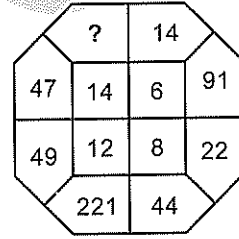
- A) 84 B) 89 C) 94 D) 99 E) 104

4.



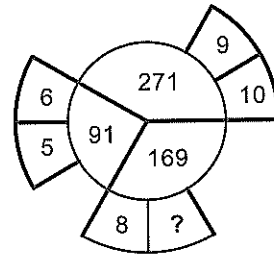
- A) 3 B) 4 C) 5 D) 6 E) 7

5.



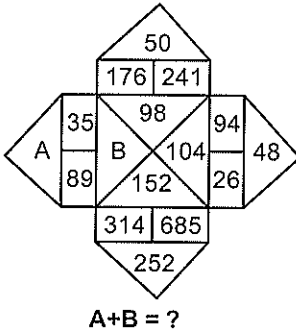
- A) 117 B) 51 C) 24 D) 124 E) 125

6.



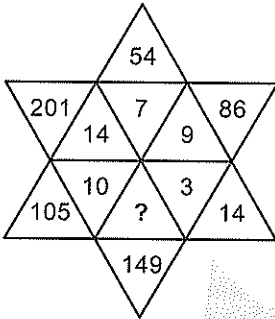
- A) 5 B) 6 C) 7 D) 8 E) 9

7.



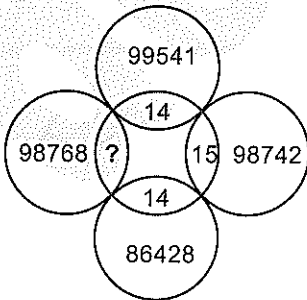
- A) 220 B) 221 C) 222 D) 223 E) 224

8.



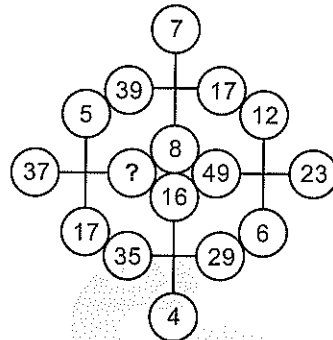
- A) 12 B) 13 C) 14 D) 15 E) 16

9.



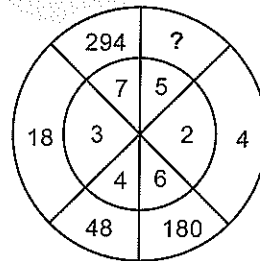
- A) 15 B) 16 C) 17 D) 18 E) 19

10.



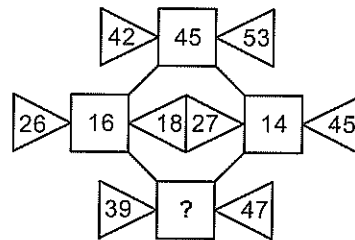
- A) 48 B) 58 C) 68 D) 38 E) 28

11.



- A) 125 B) 115 C) 110 D) 105 E) 100

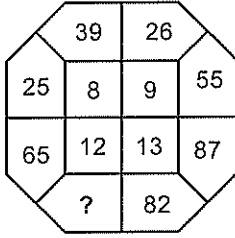
12.



- A) 32 B) 40 C) 48 D) 56 E) 72

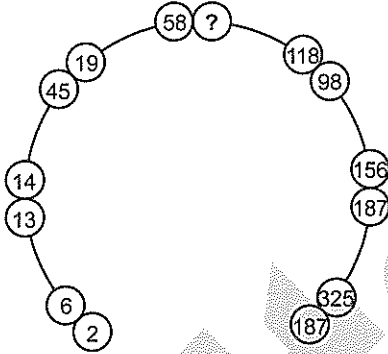
A	D	D	B	A	C	D	A	E	A	E	C
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1.



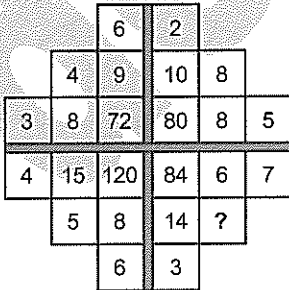
- A) 89 B) 79 C) 69 D) 59 E) 49

2.



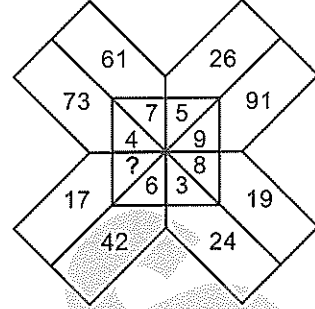
- A) 77 B) 62 C) 67 D) 63 E) 57

3.



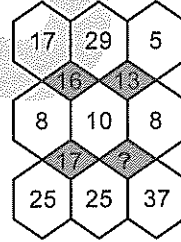
- A) 4 B) 5 C) 6 D) 7 E) 8

4.



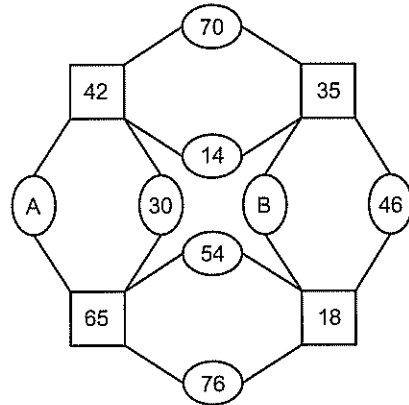
- A) 11 B) 12 C) 13 D) 14 E) 15

5.



- A) 10 B) 15 C) 20 D) 25 E) 30

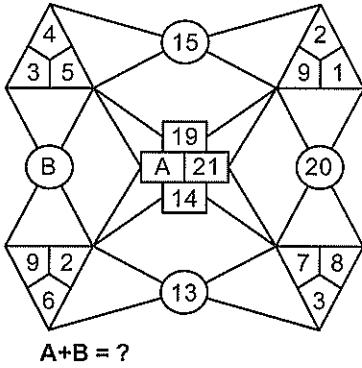
6.



A+B = ?

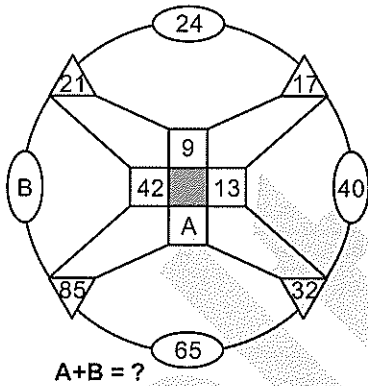
- A) 70 B) 84 C) 90 D) 114 E) 124

7.



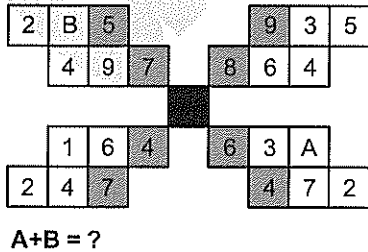
- A) 12 B) 14 C) 25 D) 26 E) 27

8.



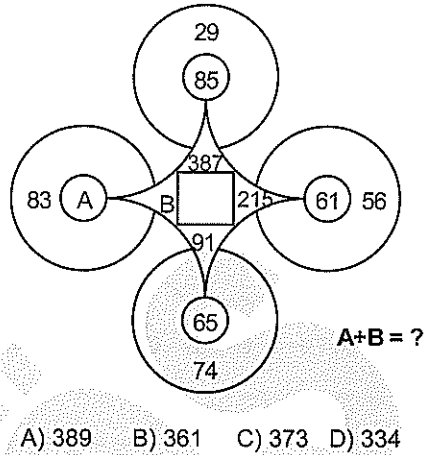
- A) 65 B) 75 C) 85 D) 95 E) 105

9.



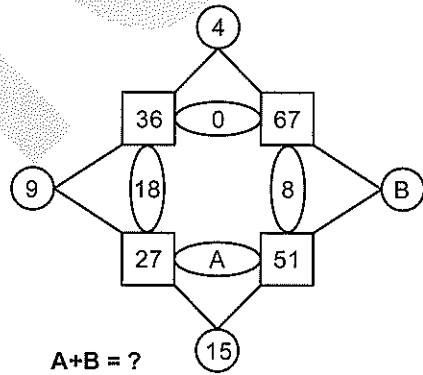
- A) 16 B) 14 C) 12 D) 10 E) 8

10.



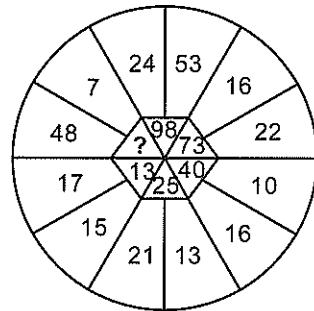
- A) 389 B) 361 C) 373 D) 334 E) 316

11.



- A) 56 B) 63 C) 66 D) 73 E) 76

12.



- A) 55 B) 50 C) 25 D) 10 E) 5

BÖLÜM

CHAPTER

6

TABLULAR

(TABLES)

1.

+	a	b	c
a			25
b		18	
c		23	

$\Rightarrow a = ?$

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

2.

+	x	y	z
x	2z	x	
y			8
z			

$\Rightarrow x = ?$

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

3.

+	a	b	c
a		12	
b			13
c	17		

$\Rightarrow a+b+c = ?$

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

4.

+	x	y	z
x	2y		
y			24
z			

$\Rightarrow x+z = ?$

- A) 12 B) 18 C) 24 D) 30 E) 36

5.

+	a	b	c
a		2b	
b			2c
c	26		

$\Rightarrow a+b+c = ?$

- A) 13 B) 26 C) 39 D) 52 E) 65

6.

+	a	b	c
a			
b		4a	5a
c	c+9		

$\Rightarrow c = ?$

- A) 9 B) 12 C) 18 D) 27 E) 36

7.

+	a	b	c
a	c+8	c+9	
b			
c		15	

$\Rightarrow a+c = ?$

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

10.

+	a	b	c
a	5c		14
b		c^2	
c			

$\Rightarrow b = ?$

- A) 4 B) 8 C) 16 D) 32 E) 64

8.

+	x	y	z
x			y
y			
z	29		

$\Rightarrow x+y+z = ?$

- A) 29 B) 38 C) 48 D) 49 E) 58

11.

+	x	y	z
x	2k		
y		6k	9k
z			36

$\Rightarrow x+y+z = ?$

- A) 20 B) 22 C) 24 D) 27 E) 30

9.

+	a	b	c
a		24	
b			26
c	28		

$\Rightarrow a+b-c = ?$

- A) 9 B) 11 C) 13 D) 15 E) 39

12.

+	x	y	z
x	12		
y		x^2-6	
z		27	

$\Rightarrow z = ?$

- A) 2 B) 7 C) 12 D) 17 E) 32

1.

+	a	b	c
a		c+4	
b			a+12
c	b+8		

$\Rightarrow a^2 = ?$

- A) 25 B) 36 C) 49 D) 64 E) 100

2.

+	a	b	c
a	a^2		
b		4a	6a
c			

$a \neq 0$
 $\Rightarrow a+b+c = ?$

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

3.

+	x	y	z
x		z+13	
y	3z-7		
z		17	

$\Rightarrow x = ?$

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

4.

+	a	b	c
a		c+12	20
b	3c-18		
c			

$\Rightarrow b = ?$

- A) 18 B) 20 C) 21 D) 22 E) 28

5.

+	a	b	c
a	8		
b		a^2	
c			3b

$\Rightarrow c = ?$

- A) 6 B) 12 C) 18 D) 24 E) 30

6.

+	x	y	z
x		123	
y			155
z	138		

$\Rightarrow x = ?$

- A) 50 B) 51 C) 52 D) 53 E) 54

7.

+	x	y	z
x	5x-12		
y		4x	
z			y^2

$\Rightarrow z = ?$

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

8.

+	a+5	b+6	c+7
a	17		
b		4a	
c			3b

$\Rightarrow a+b+c = ?$

- A) 6 B) 9 C) 10 D) 15 E) 25

9.

+	a	b	c
a	c-b	c-8	
b			
c			4a

$\Rightarrow c = ?$

- A) 8 B) 16 C) 24 D) 32 E) 40

10.

+	a	b	c
a	b		
b		a+9	
c			$2a^2$

$\Rightarrow c = ?$

- A) 2 B) 4 C) 9 D) 16 E) 25

11.

+	a	b	c
a	b+24		
b		a	
c			b/2

$\Rightarrow c = ?$

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

12.

+	x	y	z
x		13	
y			8
z		2y	

$\Rightarrow x.y = ?$

- A) 4 B) 9 C) 18 D) 36 E) 72

1.

+	a	b	c
a		32	
b			
c	28		c+13

$$\Rightarrow b-c = ?$$

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

2.

+	x	y	z
x		$x^2 - y^2$	
y	19		
z			

$$\Rightarrow x \cdot y = ?$$

- A) 9 B) 10 C) 19 D) 81 E) 90

3.

+	K	L	M
K		28	
L			
M		20	

$$K+L+M = 32$$

$$\Rightarrow \frac{K+L}{M} = ?$$

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

4.

+	x	y	z
x	y		
y		z	
z			x^2

$$x \neq 0$$

$$\Rightarrow x+y+z = ?$$

- A) 8 B) 16 C) 24 D) 32 E) 56

5.

+	a	b	c
a		5a	
b			25
c	16		

$$\Rightarrow a+b+c = ?$$

- A) 4 B) 12 C) 13 D) 25 E) 28

6.

+	x	y	z
x	z+11		y+19
y	z+5		
z			

$$\Rightarrow z = ?$$

- A) 3 B) 8 C) 13 D) 18 E) 23

7.

+	a	b	c
a		$3c-9$	
b			$3a-7$
c	$3b-8$		

$\Rightarrow a+b+c = ?$

- A) 6 B) 12 C) 18 D) 24 E) 92

8.

+	x	y	z
x		KL	
y			LM
z	KM		

$(K+L).(L+M) = L^2+34$
 $\Rightarrow x+y+z = ?$

- A) 17 B) 19 C) 27 D) 34 E) 68

9.

+	K	L	M
K	$L+3$		
L		$3K$	
M			$3K-4$

$\Rightarrow M = ?$

- A) 14 B) 12 C) 10 D) 9 E) 7

10.

+	a	b	c
a	$7b$	27	
b			
c	30		

$\Rightarrow c = ?$

- A) 9 B) 19 C) 21 D) 24 E) 29

11.

+	x	y	z
x			11
y		$3z/2$	
z		14	

$\Rightarrow x = ?$

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

12.

+	x	y	z
x		$5z/2$	
y		z	
z			

$\Rightarrow \frac{x+z}{y} = ?$

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

1.

+	a	b	c
a			5b
b	3b		
c			b ²

$$\Rightarrow a+b+c = ?$$

- A) 6 B) 12 C) 18 D) 30 E) 36

2.

+	a	b	c
a		3c+9	
b			a-3
c	2b		

$$\Rightarrow a+b+c = ?$$

- A) 0 B) 1 C) 3 D) 6 E) 9

3.

+	a	b	c
a		12	
b		8c	a.c
c			

$$\Rightarrow b = ?$$

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

4.

+	a	b	c	d
a		18		
b			15	
c	19			
d		21		

$$\Rightarrow \frac{d}{2} = ?$$

- A) 7 B) 8 C) 10 D) 12 E) 14

5.

+	x	y	z
x			y
y			
z	29		

$$\Rightarrow x+y+z = ?$$

- A) 19 B) 29 C) 39 D) 58 E) 68

6.

+	x	y	z
x			
y		7z	
z			x

$$\Rightarrow \frac{x}{y} = ?$$

- A) $\frac{2}{7}$ B) $\frac{4}{7}$ C) $\frac{5}{2}$ D) $\frac{5}{4}$ E) $\frac{7}{4}$

7.

+	x	y	z
x		3K	
y			3L
z	3M		

$$K+L+M = 54$$

$$\Rightarrow \frac{x+y+z}{3} = ?$$

- A) 3 B) 9 C) 18 D) 27 E) 54

10.

+	a	b	c
a	5b	28	
b			2a
c			

$$\Rightarrow c = ?$$

- A) 7 B) 18 C) 24 D) 32 E) 38

8.

+	a	b	c
a		6a	
b	2c-4		18
c			

$$\Rightarrow a^2 = ?$$

- A) 2 B) 3 C) 4 D) 9 E) 16

11.

+	K	L	M
K			5M
L	4K		
M		39	

$$\Rightarrow K = ?$$

- A) 4 B) 8 C) 12 D) 16 E) 20

9.

+	x	y	z
x	x^2		
y		$x+z$	
z			x^3

$$\Rightarrow x.y.z = ?$$

- A) 6 B) 8 C) 12 D) 24 E) 32

12.

+	a	b	c
a		138	
b			163
c	151		

$$\Rightarrow b = ?$$

- A) 63 B) 75 C) 88 D) 113 E) 226

1.

+	a	b	c
a	12c	144	
b			
c			

$$\Rightarrow \frac{6c+b}{16} = ?$$

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

2.

+	a	b	c
a			$7b-4$
b	$5b+4$		
c		$6b+4$	

$$\Rightarrow \frac{a+b}{c} = ?$$

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

3.

+	x	y	z
x	y	z	a
y	z	a	b
z	a	b	c

$$\Rightarrow \frac{2(a+b)}{c} = ?$$

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

4.

+	a	b	c	d
a		13		
b				
c				8
d				

$$\Rightarrow ac+bc+ad+bd = ?$$

- A) 21 B) 44 C) 64 D) 84 E) 104

5.

+	a	b	c
a	$b-2$		
b		$a+c$	
c			a^2+8

$$\Rightarrow b = ?$$

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

6.

+	x	y	z
x	y	a	35
y			
z			a

$$\Rightarrow a+y = ?$$

- A) 7 B) 14 C) 28 D) 56 E) 70

7.

+	a	b	c
a		2/3	
b			7/9
c	14/9		

$\Rightarrow a+b+c = ?$

- A) 1/2 B) 3/2 C) 3 D) 6 E) 9

8.

+	a	b	c
a		5c/2	
b			15
c	4b/3		

$\Rightarrow a+b+c = ?$

- A) 18 B) 21 C) 24 D) 27 E) 30

9.

+	a	b	c
a		4c/3	
b			2a/3
c	36		

$\Rightarrow a+b-c = ?$

- A) 5 B) 8 C) 16 D) 24 E) 42

10.

+	x	y	z	t
x			2x+t	
y				
z	3t	10		
t			12	

$\Rightarrow x+y = ?$

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

11.

+	K	L	M
K		3K+M	
L	7M		24
M			

$\Rightarrow K.M-L = ?$

- A) 32 B) 26 C) 24 D) 16 E) 12

12.

+	a	b	c
a		2c+4	
b			
c	6	2a+8	

$\Rightarrow a+b+c = ?$

- A) 9 B) 10 C) 11 D) 13 E) 15

1.

x	a	b	c
a		72	
b			
c	96	108	

$\Rightarrow c = ?$

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

2.

x	a	b	c
a			168
b	180		
c		210	

$\Rightarrow a+b+c = ?$

- A) 12 B) 14 C) 27 D) 39 E) 41

3.

x	a	b	c
a	x^2		
b		$2x^2$	
c			$9x^2$

$\Rightarrow \frac{a^2+c^2}{b^2} = ?$

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

4.

x	a	b	c
a	k^2		36
b		$9k^2$	
c			$16k^2$

$\Rightarrow a+b+c = ?$

- A) 8 B) 16 C) 24 D) 32 E) 40

5.

x	a	b	c
a		$\frac{1}{3}$	
b			$\frac{1}{4}$
c	$\frac{1}{48}$		

$\Rightarrow b = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{4}$ C) 1 D) 2 E) 4

6.

x	a	b	c
a		$2c$	
b			$5a$
c	$4b$		

$\Rightarrow a.b.c = ?$

- A) 12 B) 38 C) 40 D) 50 E) 60

7.

x	K	L	M
K		3M	
L			3KL
M	48		

$\Rightarrow L = ?$

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

8.

x	a	b	c
a		18c	
b			8a
c	2b		

$\Rightarrow a+b+c = ?$

- A) 12 B) 16 C) 18 D) 20 E) 22

9.

x	x	y	z
x			
y			3xy
z	108		

$\Rightarrow z = ?$

- A) 36 B) 24 C) 18 D) 12 E) 6

10.

x	K	L	M
K		38	
L			152
M			

$\Rightarrow K = ?$

- A) $\frac{M}{4}$ B) $\frac{M}{3}$ C) $\frac{M}{2}$ D) 3M E) 4M

11.

x	a	b	c
a		c	
b			36a
c	25b		

$\Rightarrow c = ?$

- A) 5 B) 6 C) 11 D) 30 E) 41

12.

x	x	y	z
x		7z	
y			5x
z	3y		

$\Rightarrow x.y.z = ?$

- A) 15 B) 21 C) 35 D) 75 E) 105

1.

x	a	b	c
a		c^2	
b			4a
c	9b		

$\Rightarrow a \cdot b = ?$

- A) 36 B) 25 C) 16 D) 9 E) 4

2.

x	a	b	c
a		108	
b			135
c	180		

$\Rightarrow \sqrt{a+b+c} = ?$

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

3.

x	x	y	z
x		42	
y			
z	30		

$x, y, z \in \mathbb{Z}^+$
 $\Rightarrow y - z = ?$

- A) 1 B) 2 C) 3 D) 5 E) 7

4.

x	a	b	c
a		K	
b			L
c	M		

$(a+b) \cdot (b+c) = b^2 + 46$
 $\Rightarrow K+L+M = ?$

- A) 23 B) 30 C) 38 D) 46 E) 92

5.

x	a	b	c
a		56	
b			72
c	63		

$\Rightarrow (a+b) \cdot (b+c) = ?$

- A) 191 B) 199 C) 224 D) 245 E) 255

6.

x	a	b	c
a		b^4	
b			b^5
c	128		

$\Rightarrow a+b+c = ?$

- A) 16 B) 20 C) 24 D) 26 E) 34

7.

x	a	b	c
a	b^4		
b			b^4
c	b^3		

$b \neq 0$
 $\Rightarrow a \cdot b \cdot c = ?$

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

8.

x	K	L	M
K			
L	48		
M			

$M \in \mathbb{Z}^+$
 $\Rightarrow \frac{K \cdot L}{M} = ?$

- A) 7 B) 9 C) 11 D) 13 E) 16

9.

x	K	L	M
K		140	
L			
M			

$M \in \mathbb{Z}$
 $\Rightarrow \frac{K \cdot L}{M} = ?$

- A) 2 B) 4 C) 5 D) 7 E) 11

10.

x	a	b	c
a		$3c/2$	
b			$c^2/6$
c	108		

$\Rightarrow a+b+c = ?$

- A) 12 B) 14 C) 17 D) 20 E) 23

11.

x	a	b	c
a			
b	b^3		$4a$
c		256	

$\Rightarrow a = ?$

- A) 8 B) 16 C) 32 D) 64 E) 128

12.

x	a	b	c
a		$3c+6$	
b			$4a$
c	$9b$		

$\Rightarrow a+b+c = ?$

- A) 6 B) 12 C) 16 D) 20 E) 26

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

1.

x	a	b	c
a		75	
b			$\frac{a.c}{3}$
c	6b		

$\Rightarrow a+b+c = ?$

- A) 15 B) 17 C) 20 D) 22 E) 27

2.

x	a	b	c
a		3c	
b			75
c	27b		

$\Rightarrow \frac{b+c-2}{a} = ?$

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

x	x	y	z
x		K	
y			
z		K/7	

$\Rightarrow \frac{x}{z} = ?$

- A) $\frac{1}{8}$ B) $\frac{1}{7}$ C) 7 D) 8 E) 9

4.

x	a	b	c
a		$\frac{3}{28}$	
b			$\frac{5}{14}$
c	$\frac{5}{24}$		

$\Rightarrow c = ?$

- A) $\frac{3}{7}$ B) $\frac{1}{4}$ C) $\frac{3}{14}$ D) $\frac{1}{6}$ E) $\frac{5}{6}$

5.

x	a	b	c
a			
b		$64a^2$	
c	2b		

$\Rightarrow \sqrt{c} = ?$

- A) 2 B) 4 C) 6 D) 8 E) 16

6.

x	a	b	c
a		$3\sqrt{2}c$	
b			$2\sqrt{6}a$
c	$5\sqrt{3}b$		

$\Rightarrow a.b.c = ?$

- A) 60 B) 90 C) 120 D) 150 E) 180

7.

x	a	b	c
a		9	
b			12
c	7		

$$\Rightarrow \frac{b}{a} + \frac{b}{c} = ?$$

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

8.

x	a	b	c	d
a		7c		
b			12d	
c				$\frac{b}{4}$
d				

$$\Rightarrow a.b.c = ?$$

- A) 3 B) 12 C) 14 D) 21 E) 42

9.

x	a	b	c	d
a		21		
b			13	
c				12

$$\Rightarrow \frac{a}{c} - \frac{d}{b} = ?$$

- A) $\frac{9}{13}$ B) $\frac{3}{2}$ C) $\frac{25}{21}$ D) $\frac{1}{2}$ E) 2

10.

x	a	b	c	d
a	b			
b		c		
c			d	
d				f

$$\Rightarrow \frac{f}{a.b.c.d} = ?$$

- A) a B) b C) c D) e E) 1

11.

x	a	b	c
a		12	
b			24
c	16		

$$\Rightarrow a+b+c = ?$$

- A) 14 B) 24 C) $9\sqrt{2}$ D) $12\sqrt{2}$ E) $16\sqrt{2}$

12.

x	a	b	c	d
a			a	
b	$\frac{d}{4}$			
c		$\frac{2d}{49}$		
d				

$$\Rightarrow c = ?$$

- A) 4 B) $\frac{1}{3}$ C) $\frac{1}{2}$ D) $\frac{2}{9}$ E) $\frac{4}{7}$

1.

+	a	b	c
a	k		
b		2k	
c			

x	a	b	c
a	k		
b			
c			$9k^2$

$a \neq 0 \Rightarrow a + b + c = ?$

- A) 2 B) 4 C) 7 D) 16 E) 18

2.

+	a	b	c
a			
b			17
c			

x	a	b	c
a			49
b	87		
c			

$a^2 = ?$

- A) 16 B) 7 C) 49 D) 8 E) 64

3.

x	A	B	C
A			
B			
C			L

+	A	B	C
A			10
B			
C			

$K - L = 171 \Rightarrow A - C = ?$

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

4.

+	a	b	c
a		$7c$	
b			
c			a

x	a	b	c
a			
b			
c	d		b

$\Rightarrow \sqrt{d-b} = ?$

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

5.

x	K	L	M
K			
L	96		
M			

+	a	b	c	d
a		K		
b				
c				L

$ac + ad + bc + bd = ?$

- A) 12 B) 24 C) 48 D) 96 E) 192

6.

+	a	b	c
a		c	
b			$5a$
c			

x	a	b	c
a			
b		$12a$	
c			

$a + b + c = ?$

- A) 12 B) 15 C) 18 D) 21 E) 24

1.

x	a	b	c
a	c/5		
b			
c			

+	a	b	c
a	b	c/5	
b			
c			

⇒ c = ?

- A) 15 B) 25 C) 35 D) 45 E) 55

2.

x	a	b	c
a		51	
b			
c	57		

+	a	b	c
a			
b			36
c			

a+b+c = ?

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

3.

+	a	b	c
a		9	
b			11
c	10		

x	a	b	c	d
a				28
b				35
c				42

⇒ d² = ?

- A) 16 B) 25 C) 36 D) 49 E) 64

4.

+	a	b	c
a		c-5	
b			
c	6b		

x	a	b	c
a			
b		49	
c			

⇒ a = ?

- A) 7 B) 10 C) 15 D) 20 E) 25

5.

+	a	b	c
a	b/4		
b		a+c	
c			

x	a	b	c
a	b/4		
b			
c			

c = ?

- A) 20 B) 24 C) 26 D) 30 E) 32

6.

+	a	b	c
a			
b			
c	42		

x	a	b	c
a			
b			
c	78		

$\frac{1}{a} + \frac{1}{c} = ?$

- A) $\frac{7}{13}$ B) $\frac{6}{13}$ C) $\frac{13}{7}$ D) $\frac{13}{6}$ E) 13

1.

$(+)^2$	a	b	c
a		27	
b			75
c	192		

$\Rightarrow a+b+c = ?$

- A) $6\sqrt{3}$ B) $7\sqrt{3}$ C) $8\sqrt{3}$ D) 147 E) 290

2.

$\sqrt{+}$	a	b	c
a		8	
b			12
c	6		

$\Rightarrow a+b+c = ?$

- A) 244 B) 122 C) 61 D) 52 E) 28

3.

\blacktriangle	A	B	C
A		21	
B			63
C	42		

$\Rightarrow A \blacktriangle (B+C) = ?$

- A) 21 B) 42 C) 63 D) 70 E) 126

4.

$\frac{+}{2}$	a	b	c
a		15	
b			13
c	16		

$\Rightarrow a+b+c = ?$

- A) 44 B) 33 C) 22 D) 11 E) 6

5.

\sqrt{x}	a	b	c
a		$6\sqrt{2}$	
b			$2\sqrt{6}$
c	$3\sqrt{3}$		

$\Rightarrow a+b+c = ?$

- A) 9 B) 10 C) 12 D) 17 E) 20

6.

$x/2$	a	b	c
a		14	
b			28
c	16		

$\Rightarrow a+b+c = ?$

- A) 19 B) 29 C) 38 D) 58 E) 69

7.

+	a	b	c
a	a ²		
b			
c		K	

x	a	b	c
a	b		2b ²
b		L	
c			

⇒ K+L = ?

- A) 20 B) 22 C) 24 D) 30 E) 36

8.

+	a	b	c
a		16	
b			14
c			

x	a	b	c
a			
b			
c	24		

$\frac{1}{c} - \frac{1}{a} = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{24}$ E) $\frac{1}{12}$

9.

+	K	L	M
K			3K
L	5K		
M			

x	K	L	M
K	A		
L		B	
M			C

⇒ $\frac{4A}{B+C} = ?$

- A) $\frac{1}{4}$ B) $\frac{2}{5}$ C) $\frac{3}{5}$ D) $\frac{1}{5}$ E) $\frac{7}{10}$

10.

★	K	L	M
K		25	
L			42
M	34		

⇒ K★(L+M) = ?

- A) 59 B) 67 C) 76 D) 84 E) 102

11.

(+) ²	x	y	z
x		36	
y			144
z	196		

⇒ x.y.z = ?

- A) 160 B) 80 C) 40 D) 32 E) 16

12.

(+) ²	x	y	z
x		49	
y			81
z	64		

x	x	y	z
x		12	
y			20
z	15		

⇒ x²+y²+z² = ?

- A) 50 B) 36 C) 25 D) 19 E) 16

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

1.

★	8	9	10
15	46		
16		?	52
17		52	

- A) 25 B) 50 C) 24 D) 48 E) 52

2.

⊕	5	9	7
17	11		
19		?	13
23		16	

- A) 58 B) 19 C) 28 D) 14 E) 7

3.

▲	13	9	8
24	33		48
15			21
19		?	

- A) 24 B) 27 C) 30 D) 33 E) 36

4.

☒	21	32	19
13	64		?
17		225	
14			25

- A) 6 B) 12 C) 16 D) 23 E) 36

5.

♥	24	15	19
24	16		-
28		-	
33	?	16	

- A) 15 B) 17 C) 19 D) 21 E) 23

6.

♣	51	100	180
15	6		-
19	-	9	
36		8	?

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

7.

8	4	5	6
7	14	-	?
8		20	
12		30	36

- A) 42 B) 36 C) 30 D) 24 E) 21

8.

X	3	4	5
9	28		46
14		57	
17			?

- A) 22 B) 23 C) 44 D) 85 E) 86

9.

∞	3	4	7
15	42		
17		65	
12	33		?

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

10.

∇	8	12	18
2	4	-	6
3		6	-
18	?		18

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

11.

⌘	2	4	5
4	24		60
9		108	
14	?		

- A) 96 B) 92 C) 88 D) 84 E) 82

12.

●	3	17	4
13	38		
4		67	15
19			?

- A) 78 B) 77 C) 76 D) 75 E) 74

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

1.

●	5	7	9
12	22		30
14		28	
16			?

- A) 30 B) 31 C) 32 D) 33 E) 34

2.

■	15	4	19
10	85		
8		60	?
7	34		

- A) 55 B) 45 C) 35 D) 25 E) 15

3.

▲	6	7	8
19	55		83
23		72	
29			?

- A) 35 B) 73 C) 83 D) 93 E) 103

4.

*	2	6	10
13	24		16
18		30	
24	?		

- A) 50 B) 48 C) 46 D) 44 E) 42

5.

●	5	8	2
4	41		20
6		100	
7		?	53

- A) 103 B) 107 C) 113 D) 117 E) 123

6.

◀	10	13	19
7	23		
17		22	40
15	?		

- A) 10 B) 15 C) 20 D) 25 E) 30

7.

●	7	18	24
12	10	3	
29		11	?
13			10

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

8.

▲	21	45	34
15	9		?
57		21	
87			22

- A) 6 B) 7 C) 13 D) 26 E) 42

9.

∞	27	93	95
12	12	25	
81	6		?
90	14		

- A) 30 B) 35 C) 37 D) 42 E) 47

10.

■	24	7	26
25	36		?
18		10	
34			0

- A) 51 B) 41 C) 11 D) 6 E) 5

11.

*	21	40	58
93	36	48	
24		24	
35	?		104

- A) 13 B) 24 C) 42 D) 56 E) 72

12.

♥	54	67	89
25	47		?
94		54	
82			79

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

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

1.

▲	10	20	30
2	18		?
4		84	
6			246

- A) 32 B) 34 C) 36 D) 38 E) 40

2.

∞	12	32	130
4	2	-	-
5	-	3	5
66	-	-	?

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

3.

♥	1	2	4
1	8		
3	64	?	343
7		729	

- A) 27 B) 64 C) 125 D) 216 E) 343

4.

●	4	7	4
2	36	81	
8	x		144
5	y	144	

$\Rightarrow \sqrt{x \cdot y} = ?$

- A) 108 B) 96 C) 72 D) 36 E) 18

5.

■	6	19	7
12	216		A
21		8	
15	729		B

$\Rightarrow A + B = ?$

- A) 638 B) 637 C) 386 D) 385 E) 384

6.

⊕	23	10	21
12	2	1	
65	4		-
98		-	?

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

7.

☒	15	17	42
21	■	A	★
19	■	■	
84	★	B	■

⇒ A, B = ?

- A) ■, 101 B) 38, 101 C) 38, ★
 D) ■, ★ E) ★, ■

10.

♥	24	47	68
19	94		98
23		37	
15	54		?

- A) 16 B) 18 C) 56 D) 58 E) 60

8.

▲	4	7	3
12	0	0	0
5	0	5	B
15	0	A	5

⇒ A + B = ?

- A) 0 B) 5 C) 10 D) 15 E) 20

11.

✎	12	14	26
98	81		?
75			52
63		31	

- A) 92 B) 86 C) 96 D) 82 E) 28

9.

8	12	6	8
4	64	34	
7		55	
9			?

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

12.

■	9	5	12
3	15	7	21
4	23		
5		?	

- A) 5 B) 10 C) 15 D) 25 E) 35

1.

★	6	9	11
3	27		112
2			
4	?	65	

- A) 52 B) 46 C) 42 D) 36 E) 20

2.

●	7	8	12
5	44		
12		52	
23	?		121

- A) 21 B) 23 C) 24 D) 25 E) 26

3.

↔	6	9	4
5	?		41
2	40		
5		106	

- A) 71 B) 61 C) 51 D) 41 E) 11

4.

✂	2	3	4
3		27	81
4	16	?	
5		125	

- A) 16 B) 24 C) 32 D) 64 E) 216

5.

▲	2	3	4
64	8	4	
27		3	
81	9		?

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

6.

×	12	14	16
23	53		93
44		85	
37		?	

- A) 51 B) 41 C) 14 D) 15 E) 16

7.

★	4	5	7
2	10		?
3		11	
4			16

- A) 20 B) 21 C) 22 D) 23 E) 26

8.

⊕	7	24	36
14	2	24	0
18		8	
43		?	

- A) 13 B) 24 C) 36 D) 42 E) 45

9.

☒	21	82	27
43	4		0
71		3	
14	?		1

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

10.

■	11	13	15
7	95		127
8		125	
9			?

- A) 150 B) 151 C) 155 D) 157 E) 159

11.

▲	12	13	14
6	27		48
7	48	?	
3		93	

- A) 19 B) 91 C) 81 D) 18 E) 15

12.

●	8	6	9
7	41	?	
9		39	63
4			23

- A) 19 B) 29 C) 39 D) 49 E) 55

1.

	72	94	81
★	9	B	9
■	A	36	8
●	5	5	C

⇒ A+B+C=?

- A) 20 B) 24 C) 28 D) 32 E) 34

2.

	●	▲	♥
9	81	729	A
8	B	512	40
4	16	C	20

⇒A+B+C=?

- A) 173 B) 174 C) 175 D) 176 E) 177

3.

	◆	♠	✂
72	49	128	A
43	B	81	12
25	32	C	10

A + B + C = ?

- A) 100 B) 101 C) 102 D) 103 E) 104

4.

	⊗	⊕	△
16	A	19	4
24	48	B	6
32	64	35	C

⇒A+B+C=?

- A) 7 B) 67 C) 87 D) 107 E) 127

5.

	9	11	13
♥	19	23	C
★	26	B	38
♣	A	120	168

⇒A+B+C=?

- A) 139 B) 140 C) 141 D) 147 E) 149

6.

	◆	■	●
13	A	10	3
34	13	B	12
56	31	41	C

⇒A+B+C=?

- A) 30 B) 33 C) 40 D) 43 E) 53

7.

♥	△	□	○
△	?		10
□		9	
○	9		12

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

8.

⊕	□	△	○
△	11		20
○		14	
○			?

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

9.

+	○	△	□
△	81		49
□		49	
○	?	64	

- A) 1 B) 25 C) 49 D) 81 E) 121

10.

●	○	△	○
△	24		?
□			35
○		28	

- A) 21 B) 28 C) 32 D) 35 E) 40

11.

■	□	○	△
△	5	3	
◇	12		
○		?	22

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

12.

★	○	△	□
○	61		41
□		25	
△	?	18	

- A) 40 B) 42 C) 43 D) 45 E) 47

1.

1	4	4	3
2	?	3	1
2	2	3	4
2	2	2	6

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

2.

9	30	42	8
7	17	18	5
4	12	24	9
4	27	21	?

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

3.

4	12	16	3
9	4	12	3
8	9	6	12
27	3	9	?

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

4.

4	4	9	8
5	9	8	5
2	3	24	4
10	12	3	?

A) 4 B) 5 C) 6 D) 8 E) 10

5.

12	4	8	13
10	7	5	15
8	9	7	13
8	?	9	12

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

6.

51	36	72	57
35	17	27	9
45	19	54	28
85	61	?	17

A) 31 B) 41 C) 51 D) 61 E) 71

7.

9	6	3	7
8	5	6	7
7	3	5	5
9	5	?	6

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

8.

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

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

9.

24	2	1	18
17	3	3	49
14	2	6	38
25	2	?	27

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

10.

7	8	9	8
10	11	12	11
7	12	23	14
22	9	?	15

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

11.

5	2	2	5
4	3	6	4
2	5	3	2
8	2	6	4
3	3	A	B

⇒ A . B = ?

- A) 9 B) 10 C) 11 D) 12 E) 14

12.

13	10	24	19
14	17	12	27
15	19	8	2
16	12	14	?

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

1.

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

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

2.

0	6	4	8
1	6	9	13
2	2	5	15
2	?	9	17
1	2	1	11

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

3.

12	6	3	6
9	4	2	5
7	4	0	9
15	8	4	?

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

4.

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

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

5.

4	16	64	20
5	25	125	25
7	49	343	35
A	B	27	C
8	64	512	40

$\Rightarrow A+B+C=?$

- A) 18 B) 19 C) 23 D) 27 E) 32

6.

8	14	6	48
7	12	5	35
9	A	8	72
6	10	4	B

$\Rightarrow A+B=?$

- A) 40 B) 41 C) 51 D) 54 E) 55

7.

4	9	28	113
2	5	A	65
3	7	22	B
5	11	34	137

A + B = ?

- A) 106 B) 105 C) 104 D) 103 E) 102

8.

4	2	12	3
8	4	24	6
12	8	40	?
4	4	16	4

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

9.

7	11	4	3
13	A	2	11
17	26	9	8
19	21	2	B

B - A = ?

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

10.

42	6	8	2
94	13	36	A
83	B	24	5
71	8	C	6

⇒ A+B+C=?

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

11.

14	16	18
25	21	17
20	28	36
21	?	15

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

12.

4	3	25
8	2	68
9	5	106
7	1	50
3	5	?

- A) 9 B) 25 C) 30 D) 34 E) 38

1.

13	15	14	Sonuç (Result)
21	18	9	16
12	17	10	13
8	18	28	?

- A) 18 B) 19 C) 20 D) 21 E) 22

2.

2	3	7	1
1	4	2	2
6	3	9	5
Sonuç (Result)	6	7	9
			?

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

3.

12	13	27	23
8	14	19	41
5	9	18	17
5	6	8	?
			Sonuç (Result)

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

4.

3	7	8	9	5
4	6	12	4	7
8	3	2	12	8
1	3	7	9	11
4	6	?	4	7

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

5.

4	6	7	8	9
2	5	4	4	?
20	61	65	80	106

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

6.

5	3	9	8
6	5	9	1
4	3	3	7
5	4	A	B

$\Rightarrow A + B = ?$

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

7.

4	7	1	8	29
5	3	1	5	38
2	7	1	9	?
3	8	2	5	13

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

8.

13	27	8	4	12
12	15	15	7	6
9	18	31	2	29
17	19	21	3	?

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

9.

52	45	4	9
37	29	6	4
73	68	2	5
91	?	3	6

- A) 81 B) 83 C) 85 D) 87 E) 89

10.

18	27	9	8
4	4	6	9
9	3	27	12
8	36	2	?

- A) 2 B) 6 C) 12 D) 24 E) 36

11.

1	2	3	14
4	1	2	21
3	4	5	50
2	5	6	?

- A) 60 B) 62 C) 63 D) 64 E) 65

12.

51	47	0	2	4
63	58	1	2	0
27	24	0	0	6
85	79	7	?	0

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

1.

15	9	18	21
17	3	16	18
21	9	14	22
7	12	3	A
20	B	17	

$\Rightarrow A + B = ?$

- A) 11 B) 13 C) 17 D) 19 E) 22

2.

5	4	61
4	3	37
5	2	117
10	9	271
6	5	?

- A) 61 B) 71 C) 81 D) 91 E) 101

3.

7	9	4	7
3	2	1	A
6	10	12	6
4	3	1	4
3	B	1	

$\Rightarrow A \cdot B = ?$

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

4.

19	17	4	32
42	21	27	A
14	17	8	23
21	19	7	33
26	B	16	

$\Rightarrow \frac{A}{B} = ?$

- A) 36 B) 18 C) 9 D) 6 E) 3

5.

71	29	18	198
81	32	34	?
42	11	73	213
784	231	137	

- A) 120 B) 121 C) 122 D) 123 E) 124

6.

21	13	47	18
19	72	13	23
22	45	81	22
15	71	24	?

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

7.

★	x	y	z
x		21	
y			12
z	14		

★ işleminin + işlemine göre dağılıma özelliği vardır.
 $\Rightarrow x★(y+z)=?$

- A) 21 B) 24 C) 33 D) 34 E) 35

8.

●	x	y	z	t
x		11		2
y			23	9
z	14			

● işleminin + işlemine göre dağılıma özelliği vardır.
 $\Rightarrow x•(y+z)+y•(x+z)=?$

- A) 56 B) 57 C) 58 D) 59 E) 60

9.

■	A	B	C
A		42	
B			12
C	29		
D		37	48

■ işleminin + işlemine göre dağılıma özelliği vardır.

$$(A+D)■(B+C)=?$$

- A) 25 B) 35 C) 58 D) 144 E) 156

10.

▲	23	16	44
14	25		40
36		63	
42		x	48

$$\Rightarrow x = ?$$

- A) $24▲31$ B) $14▲13$ C) $25▲61$
D) $43▲15$ E) $53▲25$

11.

⊕	72	17	57
14	48	3	
23		0	
10	16		?

- A) $35⊕41$ B) $24⊕74$ C) $18⊕45$
D) $27⊕43$ E) $28⊕19$

12.

●	71	43	59
24	15		53
15		17	
32			?

- A) $44●55$ B) $44●75$ C) $24●13$
D) $16●35$ E) $47●16$

1.

4		8	10
10			
	18		A
B		26	

$\Rightarrow A + B = ?$

- A) 22 B) 23 C) 33 D) 34 E) 44

2.

17		23	
25		A	
	32		B

$\Rightarrow A + B = ?$

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

3.

4	7		25
	B		
		A	
25			

$\Rightarrow A + B = ?$

- A) 13 B) 20 C) 27 D) 49 E) 62

4.

24	22		A
21	19		
		B	
15			9

$\Rightarrow A + B = ?$

- A) 22 B) 23 C) 24 D) 28 E) 32

5.

26			
22	27		
	A		33
14		B	

$\Rightarrow B - A = ?$

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

6.

56	60		
	K		76
72		L	

$\Rightarrow L - K = ?$

- A) 2 B) 8 C) 12 D) 18 E) 22

7.

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

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

10.

1	1	7	4
2	3	5	4
4	6	4	6
25	64	169	?

- A) 121 B) 185 C) 196 D) 285 E) 289

8.

2	4	7	5
5	3	4	8
3	4	9	21
7	8	19	?

- A) 19 B) 21 C) 29 D) 31 E) 39

11.

2	3	5	6
4	2	6	6
6	9	3	12
6	7	9	?

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

9.

4	3	4	33
3	4	3	30
4	3	3	29
2	3	4	?

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

12.

1	1	1	1
2	3	3	4
3	2	4	3
27	16	256	?

- A) 8 B) 27 C) 64 D) 125 E) 144

BÖLÜM 7

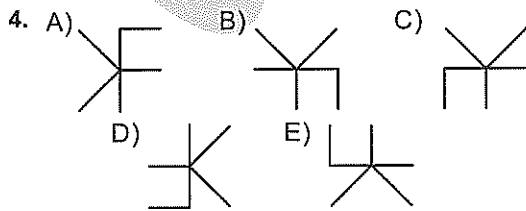
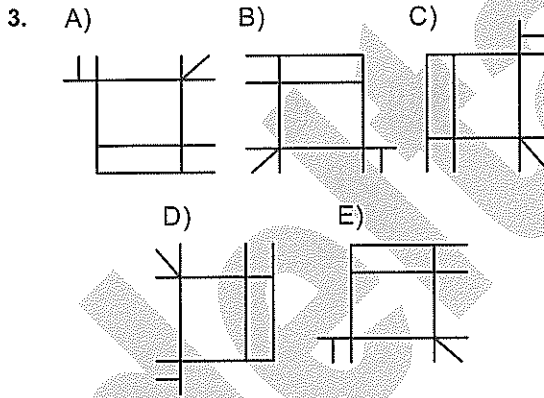
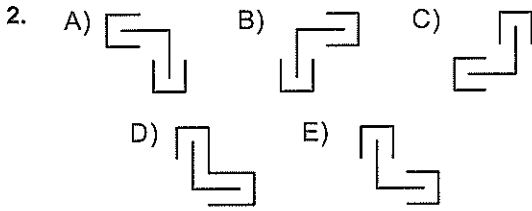
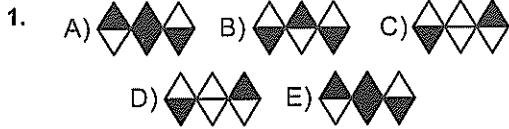
CHAPTER 7

ŞEKİL BAĞINTILARI

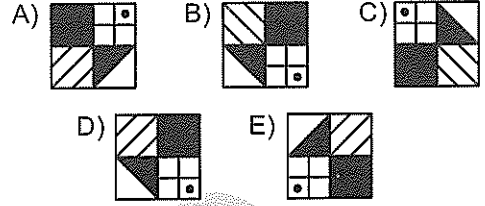
(FIGURE RELATIONS)

Aşağıdaki sorularda farklı olan şekli bulunuz.

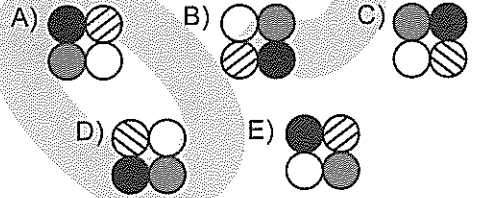
(Find the different figure in the following questions below.)



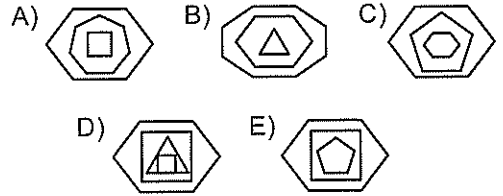
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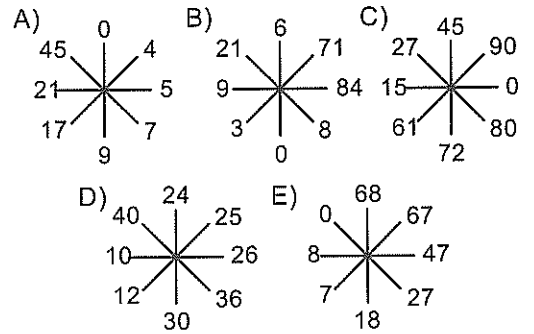
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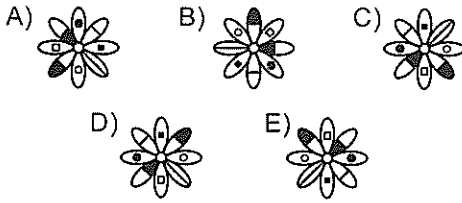
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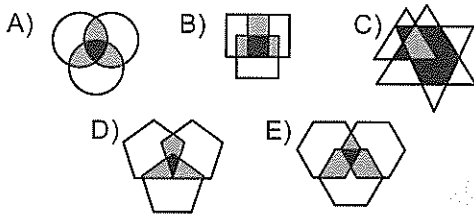
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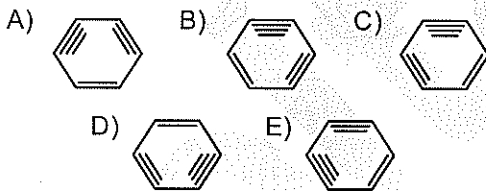
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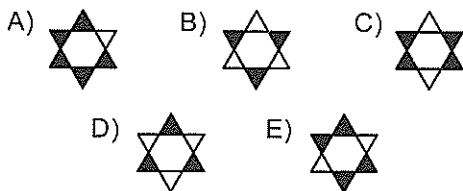
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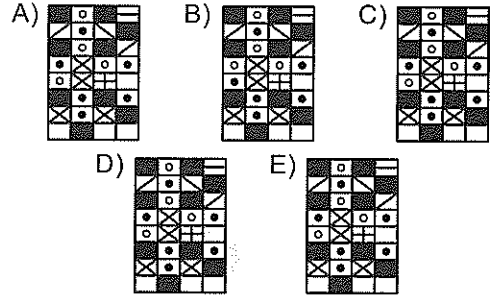
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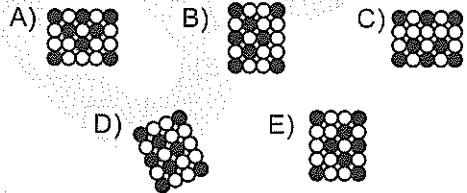
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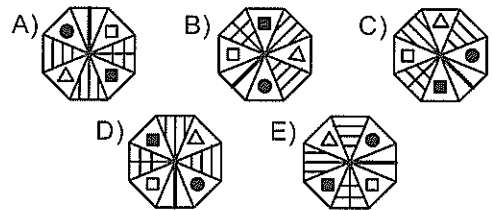
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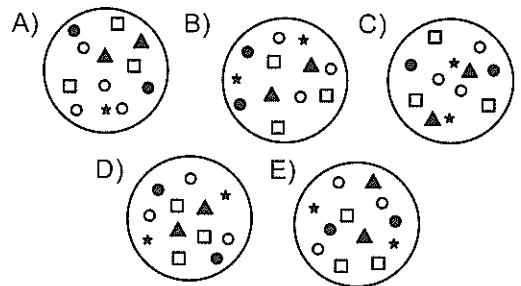
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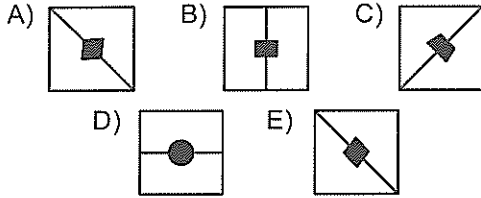


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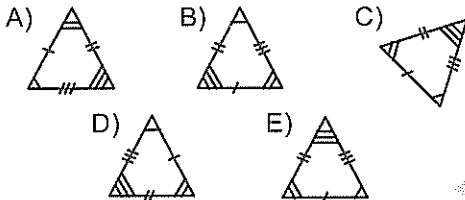


B D E C D E E D D C C A B C C A

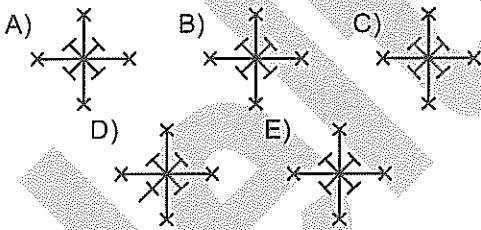
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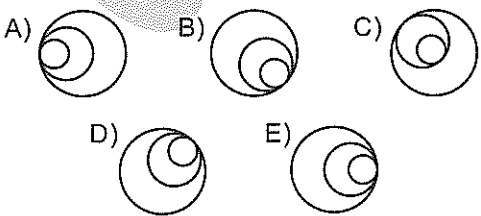
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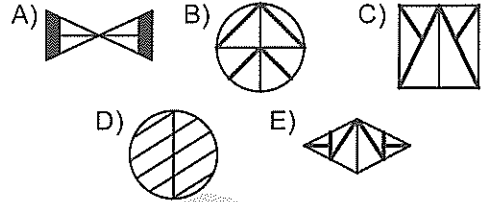
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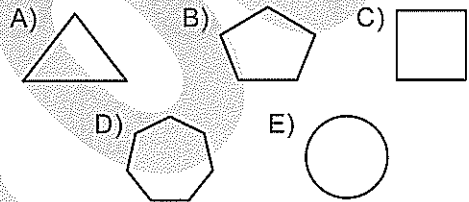
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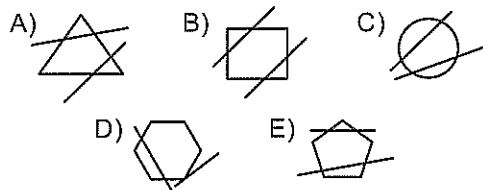
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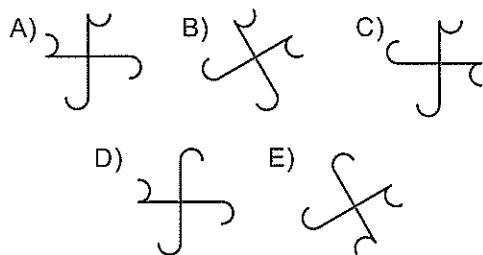
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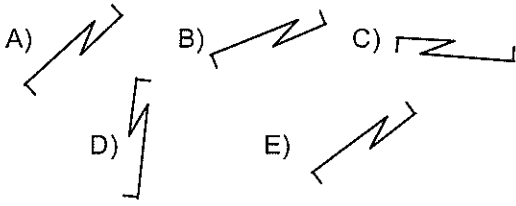
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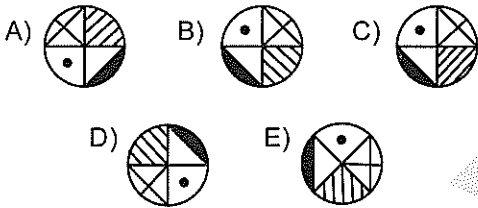
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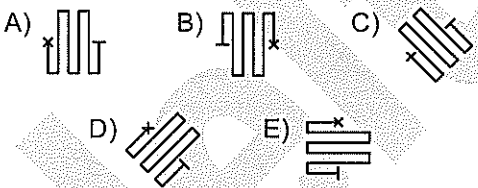
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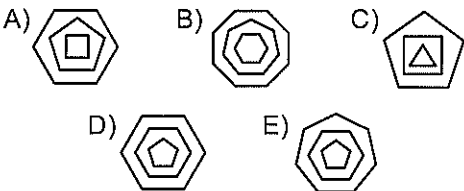
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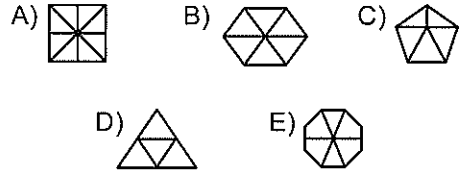
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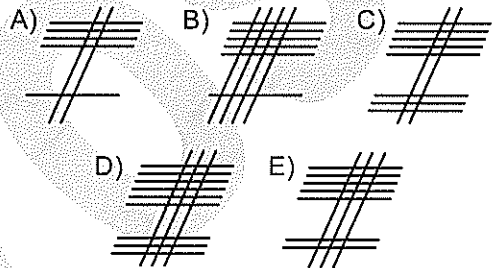
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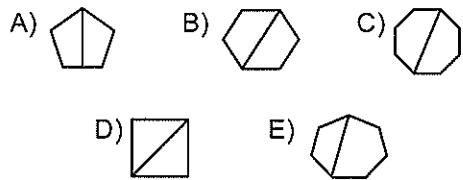
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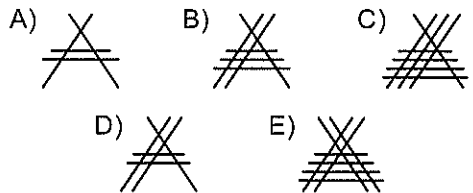
14.



15.



16.



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

1.

	△□	□★	△●	♡□
	○●	♡♥	★□	♡○
●△	●△	□	□△	□
□□			●	
△□	♡○	♡□	?	♡□
△○				○
♡★	△○	★♡	△★	♡○
○△				○

- A) □★ B) ♡□ C) □ D) ○□ E) △□

2.

	KLR	MRL	KSM
KLM	MR	KR	LS
MNL	KM NR	NR	KS NL
RSK	?	ML SK	MR

- A) NR B) KR C) ML D) SK E) SL

3.

	■●▲	○■△	□■●
□○△	□▲		□●
♡○▲		♡△	
□▲●	□▲		?

- A) ♡□ B) ♡● C) ♡♡ D) ●□ E) ▲□

4.

	KLM	XKL	YLA	CXK	LZB
XYZ	XLZ		XXZ		
ABC	ALC		ALC	?	
KLM	KLM			KZM	

- A) ABB B) AZB C) AZC D) LBB E) LBC

5.

	▲■	●□	△□	▲●
△■	□	-	▲	-
●□	-	○■	■	○
○▲	△	-	-	?

- A) ○ B) ▲ C) △ D) ● E) □

6.

	○□	○□	□△	○□
□	□		□□	□□
△		△□	□□	
□		?	□△	□△

- A) ○ B) □△ C) □□ D) □ E) △

7.

★	+	+	-	x	÷	+
+	♥	x	★	-	★	x
x	÷	♥	/	+	-	♥
●	/	★	●	/	/	A
÷	-	+	♥	+	♥	+
x	÷	♥	/	B	-	

A, B = ?

- A) ★, x B) ★, + C) x, ★
 D) +, ★ E) /, ★

8.

□	○	△	◇	○	△	△
○	△	○	□	◇	◇	○
□	△	◇	◇	○	□	□
◇	◇	△	○	□	△	A
△	◇	□	△	△	○	△
□	△	△	◇	B	△	

A, B = ?

- A) ○, △ B) △, ◇ C) ○, ◇
 D) ◇, ○ E) □, △

9.

△	□	□	◇	◇	△	◇
□	◇	△	◇	◇	○	○
□	△	◇	◇	◇	○	○
◇	□	△	◇	□	△	?
◇	○	○	△	□	◇	○

- A) △ B) □ C) ◇ D) ○ E) ○

10.

△	◇	□	◇	○	◇	4
◇	□	△	◇	△	◇	3
□	◇	◇	◇	◇	△	6
◇	◇	□	△	□	◇	B
◇	△	○	◇	□	◇	8
5	4	3	5	3	A	

A + B = ?

- A) 10 B) 12 C) 13 D) 15 E) 15

11.

●	□	△	●	□	△
□	●	△	△	□	●
△	■	★	△	■	★
★	♥	♥	□	★	?
△	○	+	△	○	+
x	✓	∞	✓	x	∞

- A) □ B) ● C) △ D) ○ E) ♥

12.

★	■	○	△	♥	+	★
x	+	★	△	□	●	+
∞	x	✓	+	★	♥	✓
★	+	♥	●	∞	✓	?
○	♥	x	□	△	+	△
△	□	✓	x	∞	○	○

- A) ○ B) □ C) △ D) ■ E) ●

1.

●	K	L	M	N	P
K	P	N	L	K	M
L	N	M	P	L	K
M	L	P	K	M	N
N	K	L	M	N	P
P	M	K	N	P	L

$[(M \bullet P) \bullet (K \bullet N)] \bullet L = ?$

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

2.

★	○	▲	□	♥	▽
○	♥	▽	○	▲	□
▲	▽	□	♥	○	▽
□	○	♥	□	▽	▲
♥	▲	○	▽	□	♥
▽	□	▽	▲	♥	○

$[(\bigcirc \star \heartsuit) \star (\square \star \nabla)] \star \blacktriangle = ?$

- A) ○ B) ▲ C) □ D) ♥ E) ▽

3.

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

$[(A \star B) \star (C \star D)] \star [(E \star A) \star B] = ?$

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

4.

●	x	+	-	/	÷
x	/	÷	+	x	-
+	÷	-	/	+	x
-	+	/	x	-	÷
/	x	+	-	÷	/
÷	-	x	÷	/	+

$[(x \bullet /) \bullet (+ \bullet K)] \bullet - = \div \Rightarrow K = ?$

- A) ÷ B) / C) - D) + E) x

5.

★	△	●	□	x	○
△	●	x	△	○	□
●	K	△	○	□	●
□	△	○	□	L	△
x	○	□	●	△	M
○	□	●	△	x	○

$(K \star L) \star M = ?$

- A) ○ B) ● C) △ D) x E) □

6.

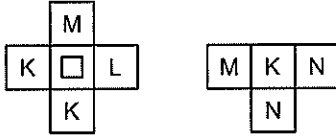
▲	K	L	M	N	P
K	P	N	L	K	M
L	N	M	P	y	K
M	L	x	K	M	N
N	K	L	M	N	P
P	M	K	z	P	L

$(x \blacktriangle y) \blacktriangle (y \blacktriangle z) = ?$

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

7.

□	x	+	✓	□
x	○	✓	x	○
△	○	+	□	○
+	△	✓	+	△
x	△	○	□	△



⇒ K, L, M, N = ?

- A) ○, □, ✓, + B) +, ○, x, ✓
 C) +, ○, x, △ D) +, ○, ✓, x
 E) ○, +, x, ✓

8.

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

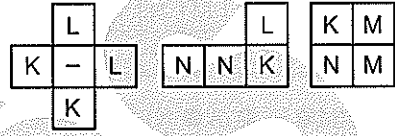


⇒ ▲, ●, ■, ▼, ★ = ?

- A) B, C, F, E, D B) B, C, F, D, A
 C) B, C, A, F, E D) B, C, F, D, E
 E) B, A, F, D, E

9.

x	+	-	/	✓	∞
-	+	-	✓	+	✓
∞	-	+	-	∞	+
+	∞	✓	x	x	∞
-	x	✓	/	∞	/

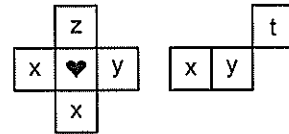


K, L, M, N = ?

- A) ∞, +, ✓, / B) ∞, +, ✓, -
 C) ∞, +, ✓, x D) ∞, ✓, +, x
 E) +, ∞, ✓, x

10.

★	▲	⊕	●	★
♥	■	♣	♠	■
♠	●	♣	♥	♦
♦	♥	★	⊕	▲
⊕	♦	★	▲	⊕



x, y, z, t = ?

- A) ♦, ★, ●, △ B) ♦, ★, ●, ♣
 C) ★, ♦, ●, ⊕ D) ★, ♦, ●, ♣
 E) ♦, ★, ●, ⊕

1.

I.	x	4	5
II.	2	y	1
III.	4	5	z

x, y, z=?

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

2.

I.	x	3	4
II.	3	y	2
III.	3	4	z

x+y+z = ?

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

3.

I.	K	2	1
II.	3	M	1
III.	3	3	L

K.L.M = ?

- A) 6 B) 8 C) 12 D) 18 E) 20

4.

I.	K	2	2
II.	3	L	2
III.	2	1	M

K, L, M=?

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

5.

I.	x	3	4
II.	4	y	6
III.	6	7	z

x+y-z = ?

- A) 4 B) 5 C) 8 D) 9 E) 12




6.

I.	A	4	5
II.	7	B	11
III.	5	6	C

A+B+C=?

- A) 9 B) 10 C) 14 D) 17 E) 19




7.

			
I.	K	5	6
II.	6	L	5
III.	12	8	M

K, L, M = ?

- A) 8, 5, 8 B) 8, 4, 8 C) 8, 5, 9
 D) 9, 8, 5 E) 8, 5, 7




8.

			
I.	A	1	0
II.	0	B	4
III.	4	0	C

A, B, C = ?

- A) 2, 4, 1 B) 2, 4, 0 C) 2, 5, 0
 D) 2, 5, 1 E) 2, 5, 4




9.

			
I.	K	1	0
II.	0	L	1
III.	2	0	M

K + L + M = ?

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




10.

			
I.	8	L	12
II.	6	5	M
III.	K	9	18

K L M

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




11.

			
I.	x	4	4
II.	3	y	0
III.	0	0	z

x+y+z=?

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

12.

			
I.	4	3	M
II.	0	L	2
III.	K	2	0


K + L + M = ?

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

1.

I.  = $\frac{3}{8} \cdot 5$

II.  = $\frac{4}{3}$


III.  = ?

- A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) $\frac{4}{3}$ D) $\frac{3}{4}$ E) $\frac{2}{3}$

2.

I.  = $2 + \frac{3}{5}$

II.  = $\frac{37}{10}$

III.  = ?

- A) $\frac{43}{8}$ B) $\frac{43}{5}$ C) $\frac{23}{8}$ D) $\frac{23}{5}$ E) $\frac{29}{8}$

3.

I.  = $10 - \frac{3}{7}$


II.  = $\frac{13}{3}$

III.  = ?

- A) $\frac{79}{5}$ B) $\frac{53}{5}$ C) $\frac{67}{5}$ D) $\frac{89}{7}$ E) $\frac{79}{7}$

4.

I.  = $\frac{3.3}{6}$

II.  = $\frac{15}{8}$

III.  = ?

- A) $\frac{6}{5}$ B) $\frac{2}{5}$ C) $\frac{3}{5}$ D) 1 E) $\frac{5}{6}$

5.

I.  = $6 - \frac{3.7}{10}$

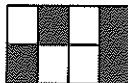
II.  = $\frac{19}{9}$

III.  = ?

- A) $\frac{12}{13}$ B) $\frac{13}{12}$ C) $\frac{8}{12}$ D) $\frac{8}{13}$ E) $\frac{35}{12}$

6.

I.  = $(2+3) \cdot 4$

II.  = 32

III.  = ?

- A) 24 B) 32 C) 36 D) 42 E) 48

7.

 = $\frac{1}{3} + 4$

 = $\frac{25}{4}$

 = ?

- A) $\frac{4}{3}$ B) $\frac{7}{3}$ C) $\frac{8}{3}$ D) $\frac{2}{3}$ E) $\frac{10}{3}$

8.

I.  = $\frac{3}{5} + 8$

II.  = $\frac{17}{3}$

III.  = ?

- A) $\frac{13}{3}$ B) $\frac{13}{4}$ C) $\frac{7}{4}$ D) $\frac{7}{3}$ E) $\frac{1}{3}$

9.

I.  = $\frac{15 + 6}{9}$

II.  = $\frac{13}{7}$

III.  = ?

- A) $\frac{31}{6}$ B) $\frac{31}{5}$ C) $\frac{7}{5}$ D) $\frac{7}{6}$ E) $\frac{3}{7}$

10.

I.  = $\frac{2.4}{2}$

II.  = $\frac{24}{5}$

III.  = ?

- A) $\frac{7}{4}$ B) $\frac{10}{4}$ C) $\frac{21}{3}$ D) $\frac{28}{3}$ E) $\frac{21}{4}$

11.

I.  = $\frac{5 + 9}{4}$

II.  = 11

III.  = ?

- A) $\frac{99}{2}$ B) $\frac{13}{9}$ C) 20 D) $\frac{20}{3}$ E) 10

12.

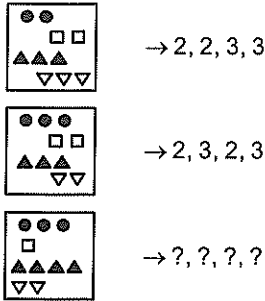
I.  = $2 + \frac{1}{2}$

II.  = $\frac{14}{3}$

III.  = ?

- A) $\frac{9}{4}$ B) $\frac{9}{5}$ C) $\frac{21}{5}$ D) $\frac{21}{4}$ E) $\frac{16}{5}$

1.



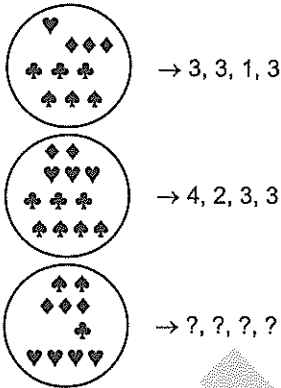
→ 2, 2, 3, 3

→ 2, 3, 2, 3

→ ?, ?, ?, ?

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

2.



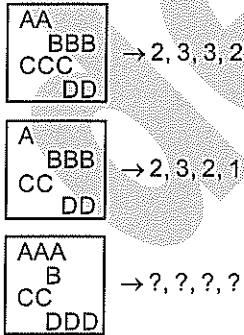
→ 3, 3, 1, 3

→ 4, 2, 3, 3

→ ?, ?, ?, ?

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

3.



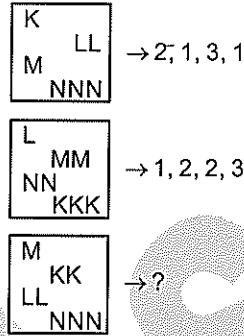
→ 2, 3, 3, 2

→ 2, 3, 2, 1

→ ?, ?, ?, ?

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

4.



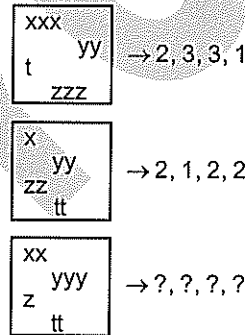
→ 2, 1, 3, 1

→ 1, 2, 2, 3

→ ?

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

5.



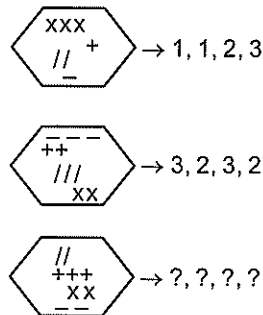
→ 2, 3, 3, 1

→ 2, 1, 2, 2

→ ?, ?, ?, ?

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

6.



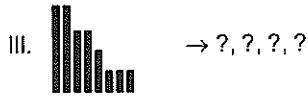
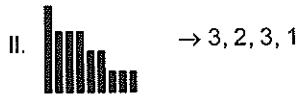
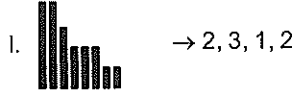
→ 1, 1, 2, 3

→ 3, 2, 3, 2

→ ?, ?, ?, ?

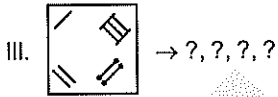
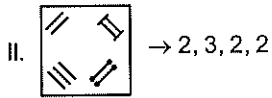
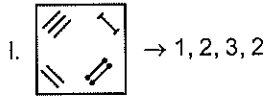
- A) 2, 3, 2, 3 B) 2, 3, 2, 2 C) 3, 2, 2, 1
D) 3, 2, 2, 3 E) 2, 3, 3, 2

7.



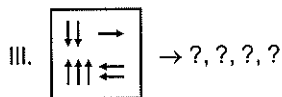
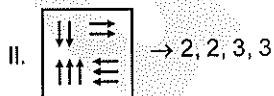
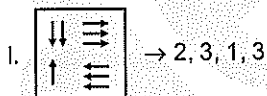
- A) 1, 2, 2, 3 B) 2, 3, 1, 2 C) 3, 2, 2, 1
D) 3, 2, 1, 2 E) 3, 1, 2, 2

8.



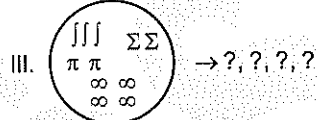
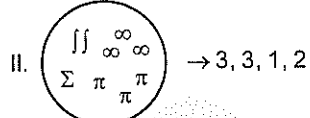
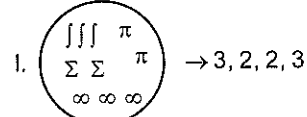
- A) 3, 2, 1, 2 B) 3, 2, 2, 1 C) 3, 1, 2, 2
D) 2, 3, 1, 2 E) 2, 2, 3, 1

9.



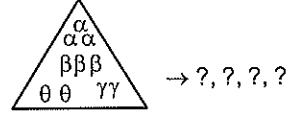
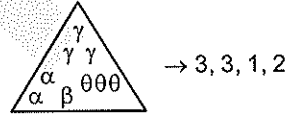
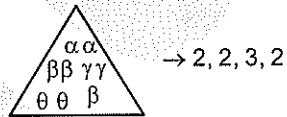
- A) 2, 3, 2, 1 B) 2, 2, 1, 3 C) 2, 2, 3, 1
D) 2, 1, 3, 2 E) 2, 1, 2, 3

10.



- A) 3, 2, 2, 4 B) 4, 2, 2, 3 C) 4, 3, 2, 2
D) 4, 2, 3, 2 E) 3, 2, 4, 2

11.



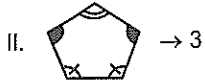
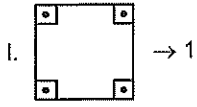
- A) 2, 2, 4, 3 B) 2, 2, 3, 2 C) 2, 2, 3, 3
D) 2, 3, 2, 3 E) 2, 3, 3, 2

12.



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

1.



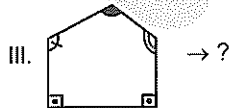
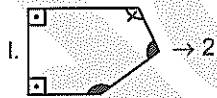
A) 2 B) 3 C) 4 D) 5 E) 6

2.



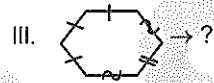
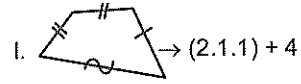
A) 2 B) 3 C) 4 D) 5 E) 6

3.



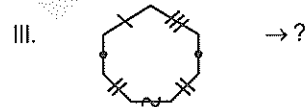
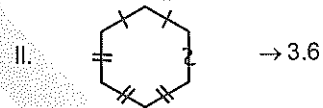
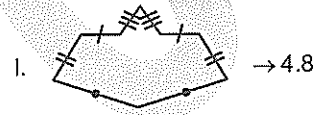
A) 2 B) 3 C) 4 D) 5 E) 6

4.



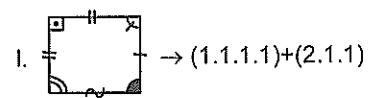
A) 18 B) 16 C) 14 D) 12 E) 10

5.



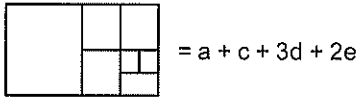
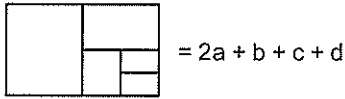
A) 14 B) 21 C) 28 D) 35 E) 4

6.



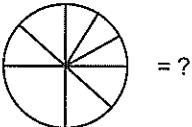
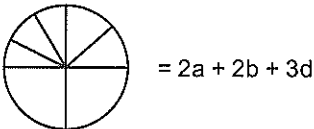
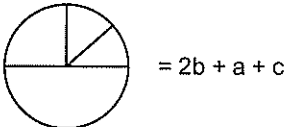
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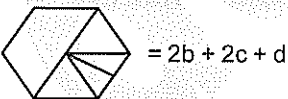
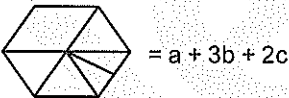
- A) $2a + 2b + 2c + 4d$ B) $2a + 2b + 2d + 4e$
 C) $2a + 2b + 4d + 2e$ D) $2a + 2d + 2e + 4b$
 E) $2b + 2c + 2d + 4e$

8.



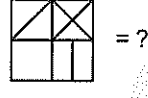
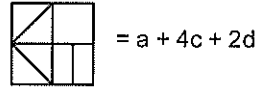
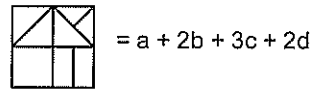
- A) $a + 4b + 3d$ B) $a + 4b + 3c$
 C) $a + 4b + 4c$ D) $3a + 4b + d$
 E) $3a + 4c + d$

9.



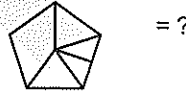
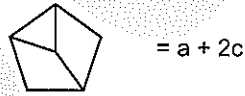
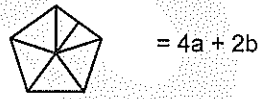
- A) $2a + 2b + c$ B) $a + 2c + 2d$
 C) $2a + c + 2d$ D) $a + 2b + 2d$
 E) $2a + b + 2c$

10.



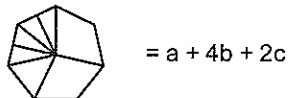
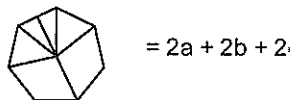
- A) $a + 4b + 3c + d$ B) $a + 4c + 2b + 3d$
 C) $a + 4b + 2c + 3d$ D) $a + 4b + 2c + 2d$
 E) $a + 4c + 2b + 2d$

11.



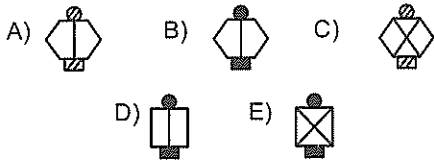
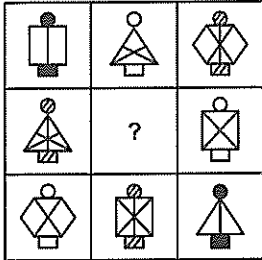
- A) $a + 2b + 2c$ B) $2a + b + 2c$
 C) $2a + 2b + c$ D) $2a + 2b + 2c$
 E) $2a + 3b + 2c$

12.

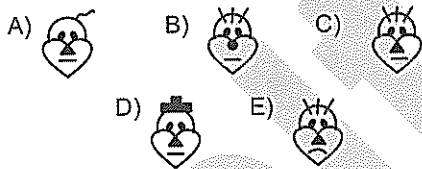
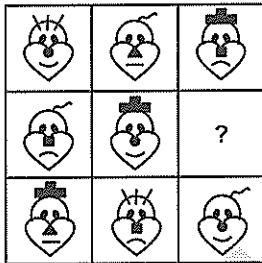


- A) $a + 4b + 2c$ B) $3a + 4b + 2c$
 C) $3a + 4b + c$ D) $3c + 4b + 2a$
 E) $3c + 4a + b$

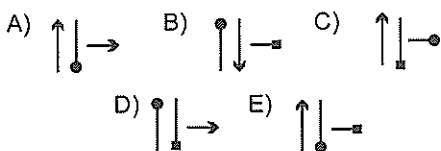
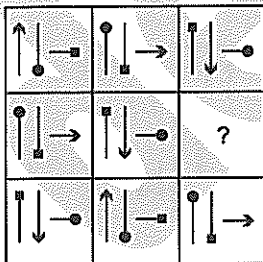
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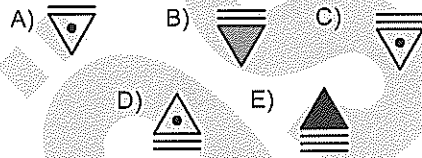
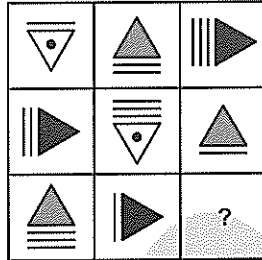
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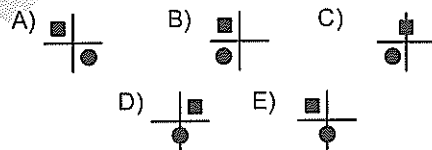
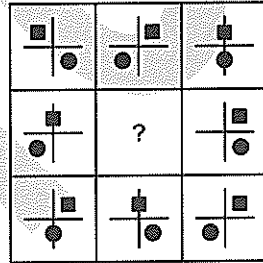
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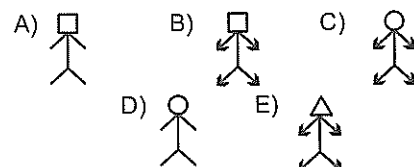
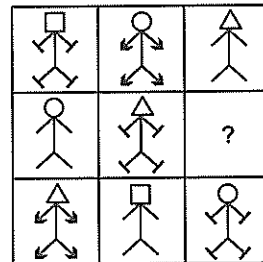
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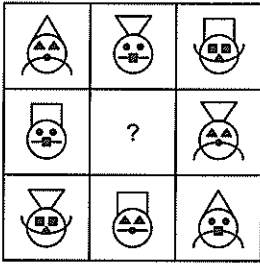
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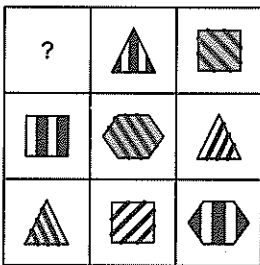


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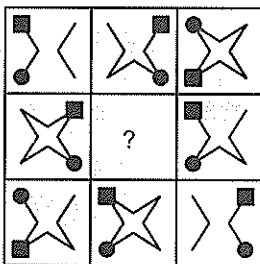
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- D)
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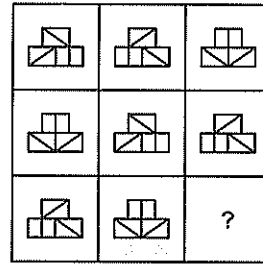
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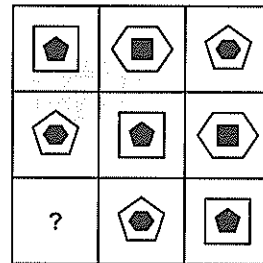
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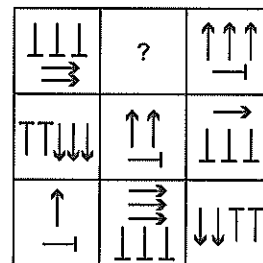
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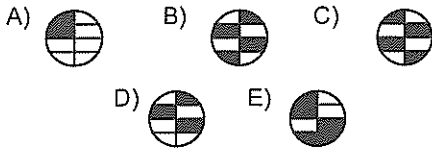
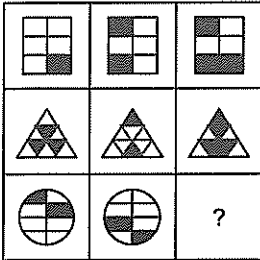
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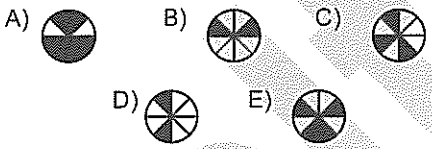
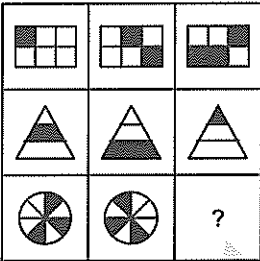


- A)
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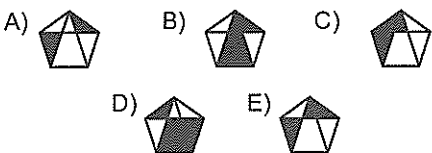
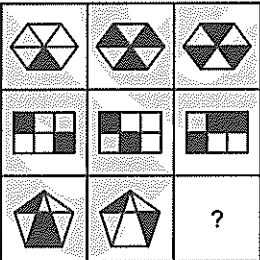
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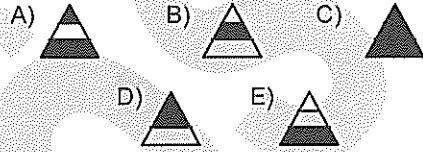
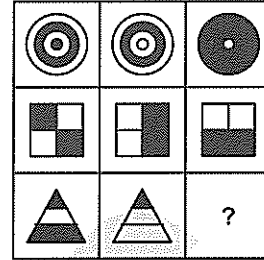
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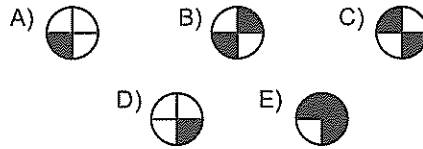
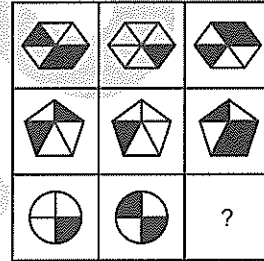
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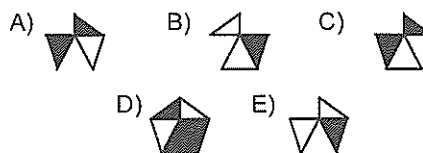
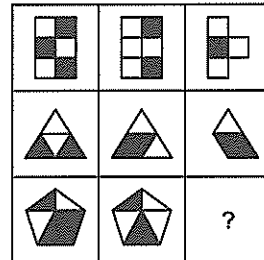
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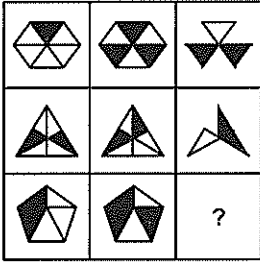
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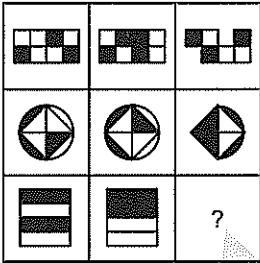


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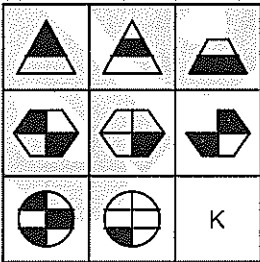
- A) B) C)
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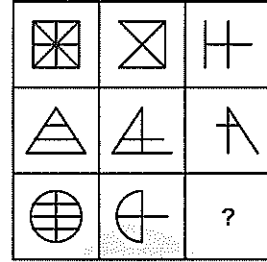
- A) B) C)
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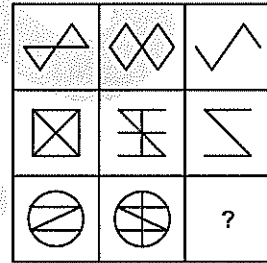
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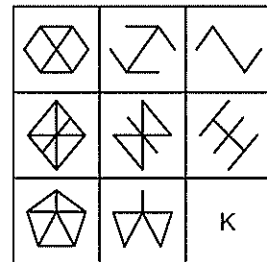
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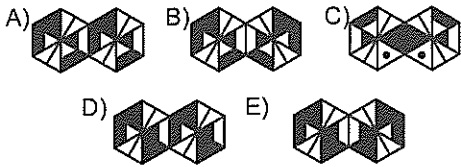
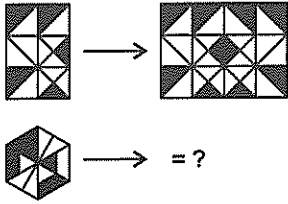
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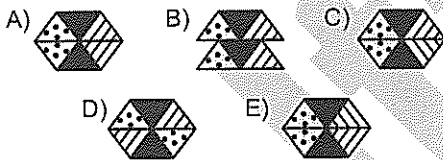
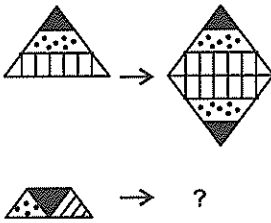


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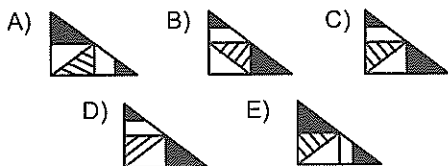
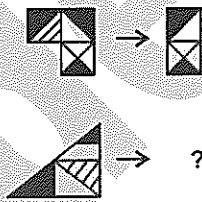
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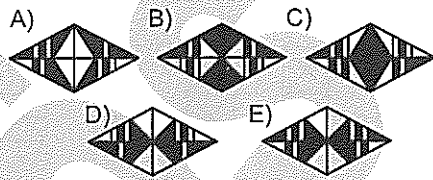
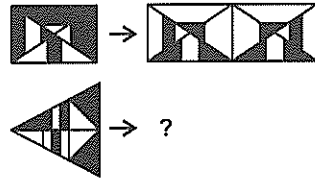
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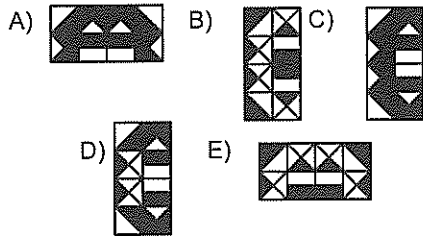
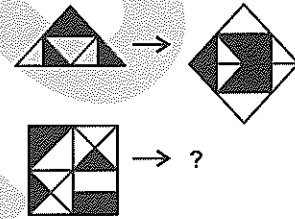
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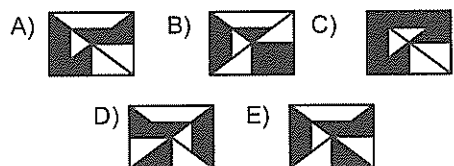
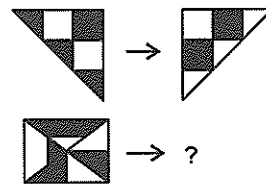
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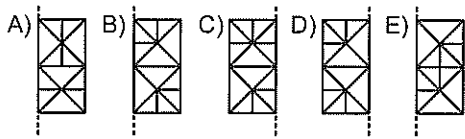
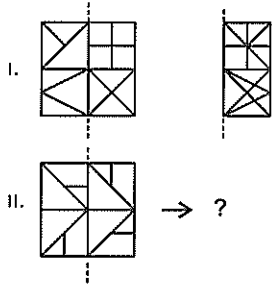
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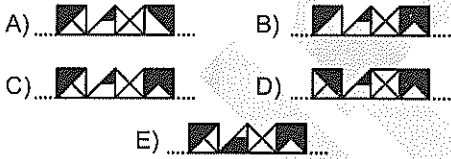
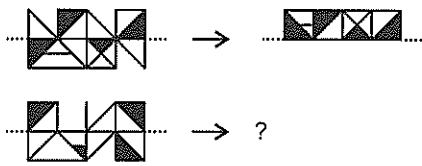
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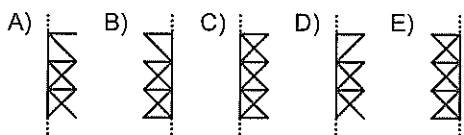
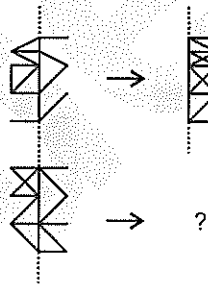
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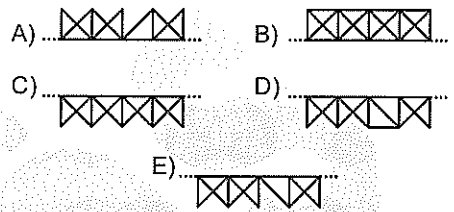
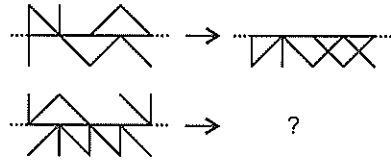
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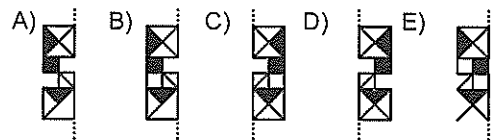
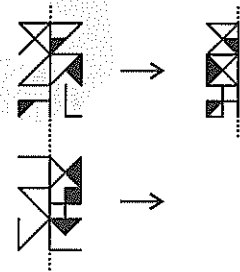
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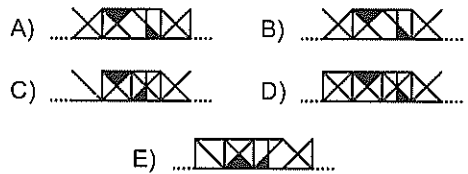
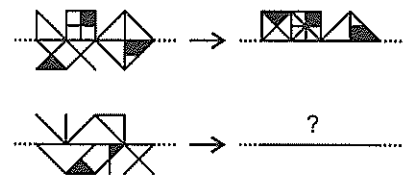
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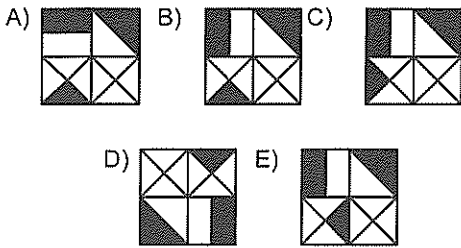
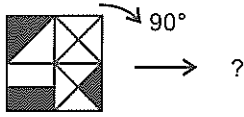


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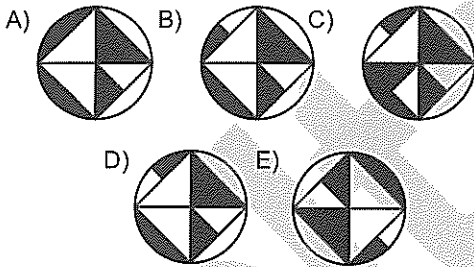
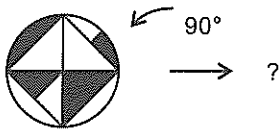


B	C	C	D	C	D	B	C	C	E	A	B
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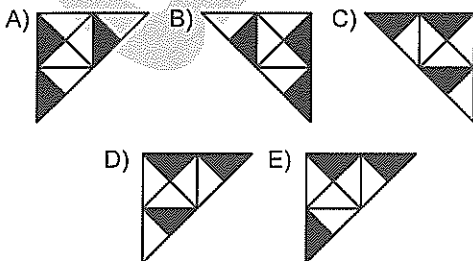
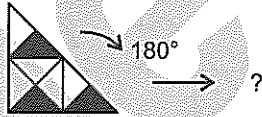
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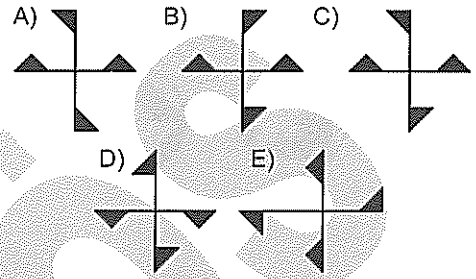
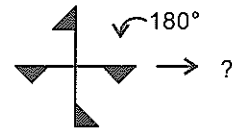
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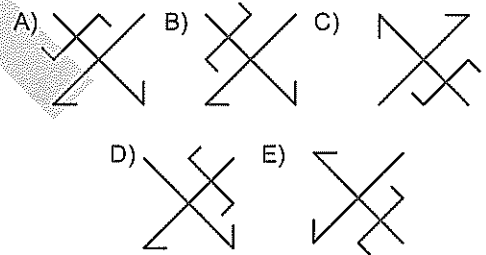
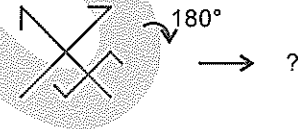
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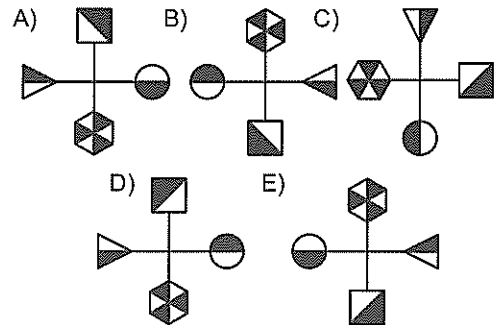
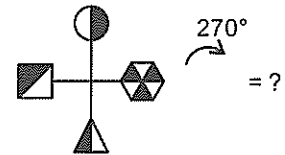
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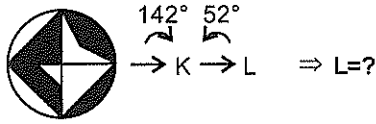
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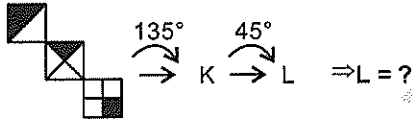


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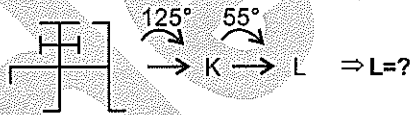
- A) B) C)
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8.



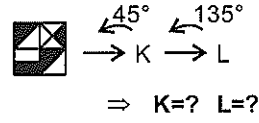
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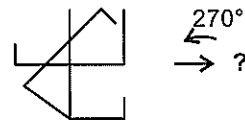
- A) B) C)
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10.



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

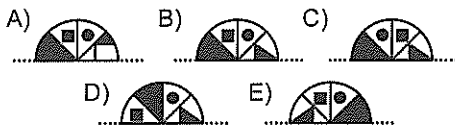
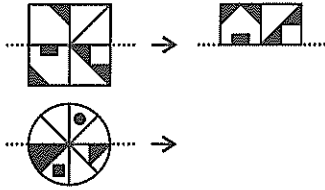
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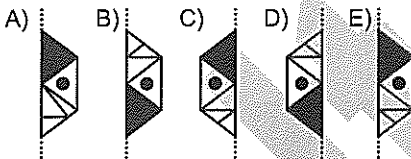
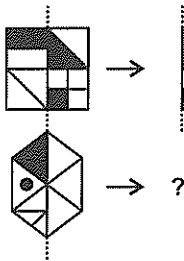
- A) B) C)
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B	D	C	C	A	B	E	A	C	A	D
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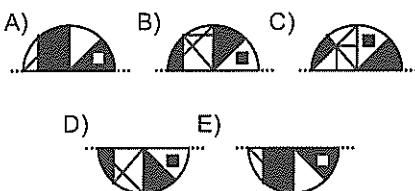
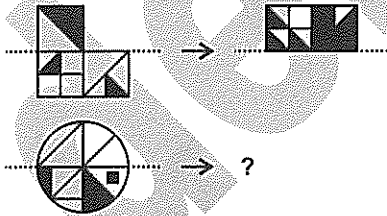
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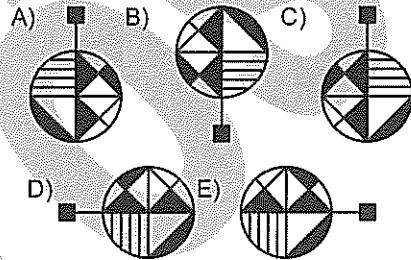
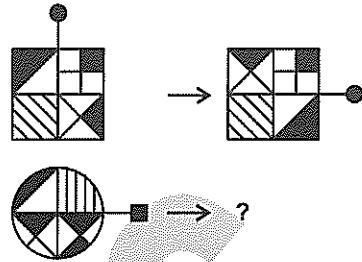
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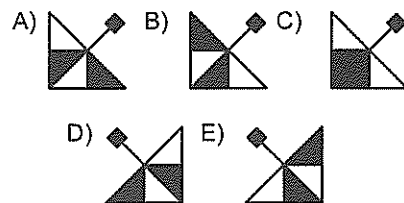
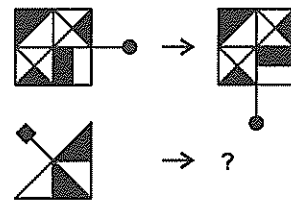
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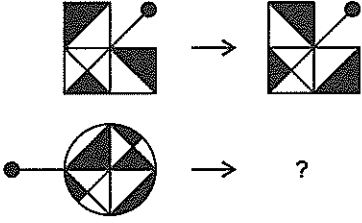
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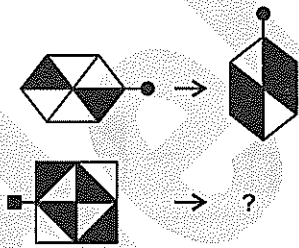


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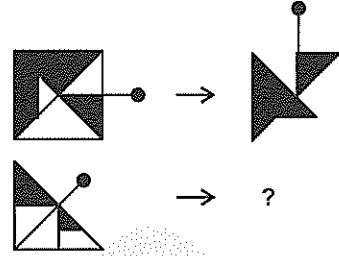
- A) B) C) D) E)

7.



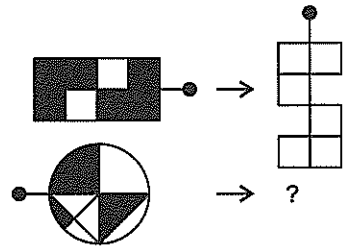
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- A) B) C) D) E)

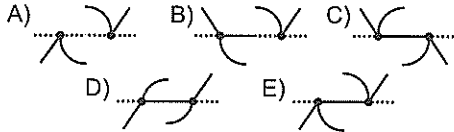
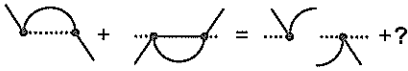
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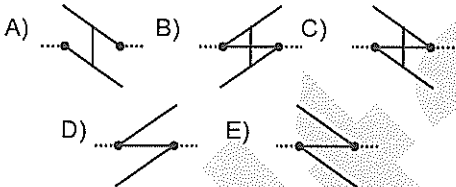
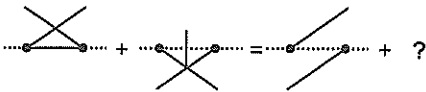
- A) B) C) D) E)

B	E	A	C	D	E	B	D	D
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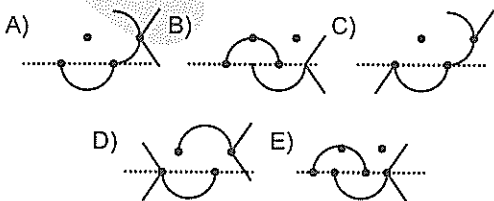
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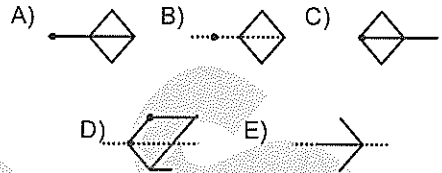
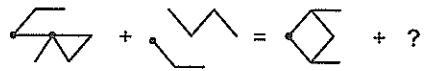
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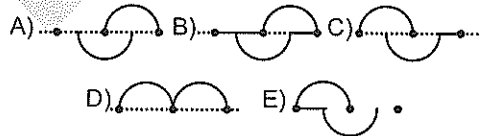
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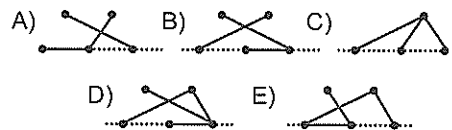
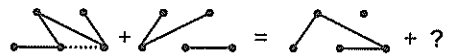
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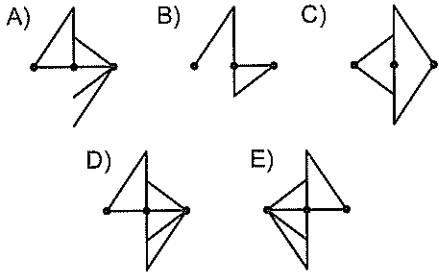
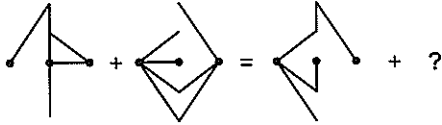
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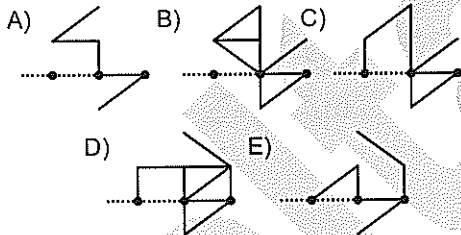
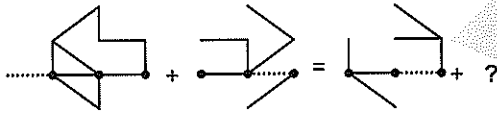
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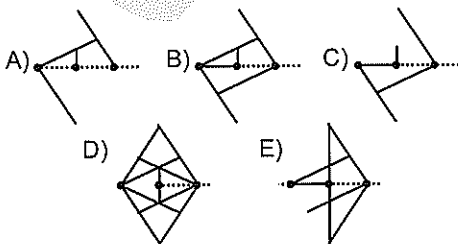
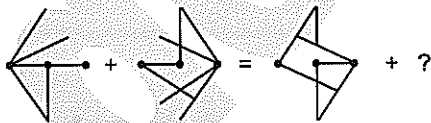
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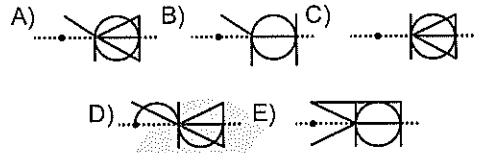
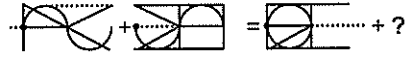
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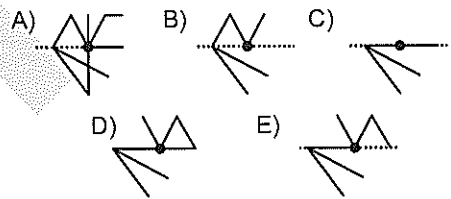
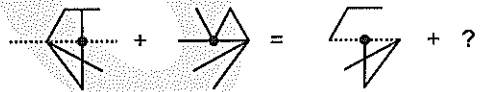
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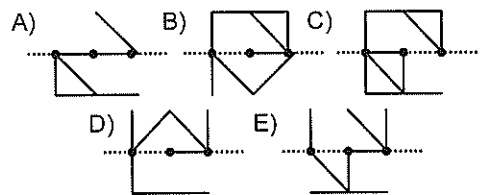
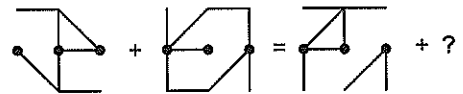
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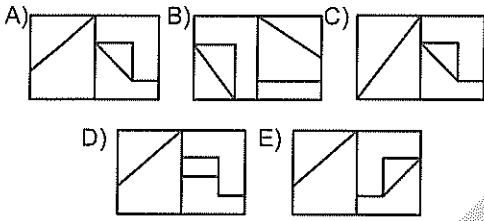
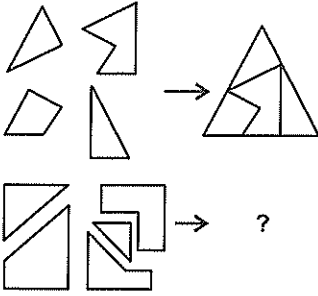


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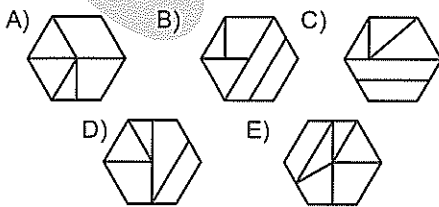
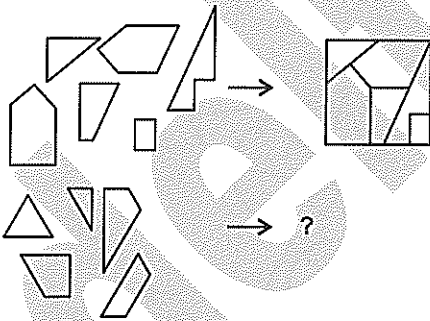


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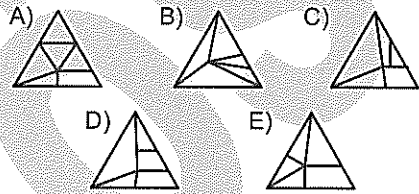
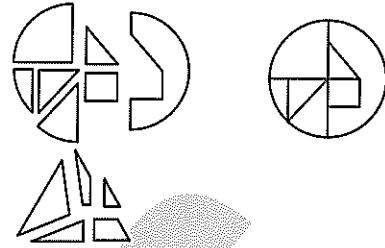
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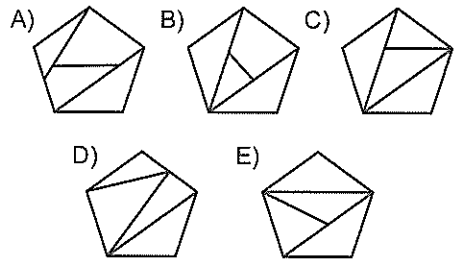
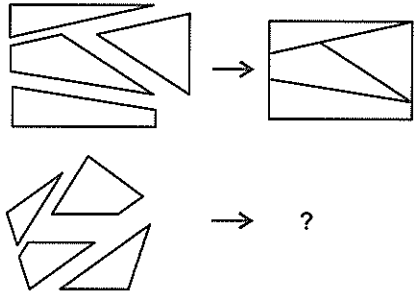
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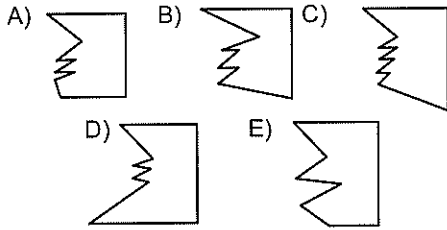
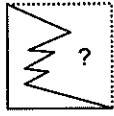
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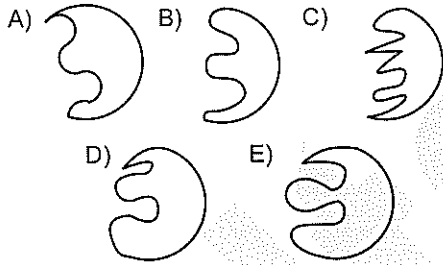
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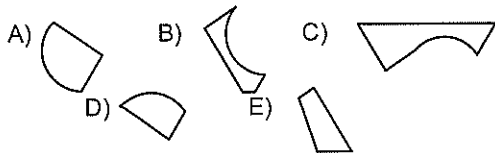
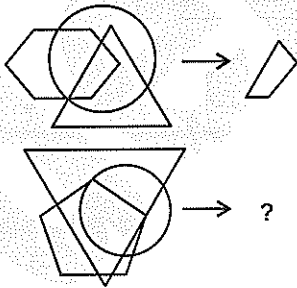
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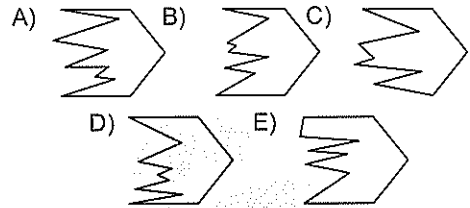
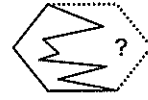
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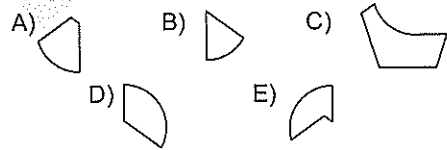
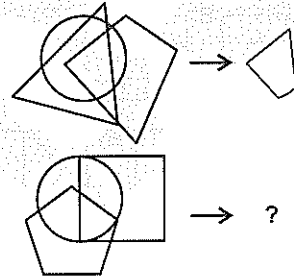
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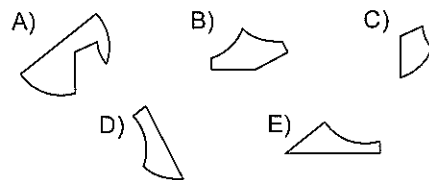
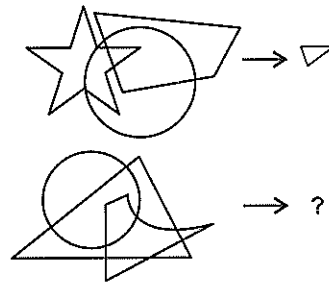
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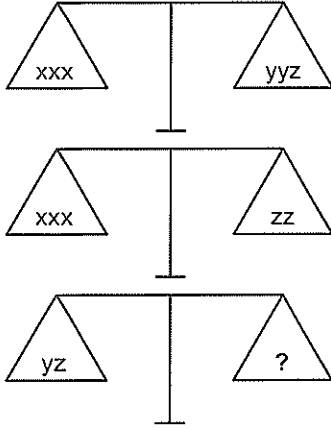


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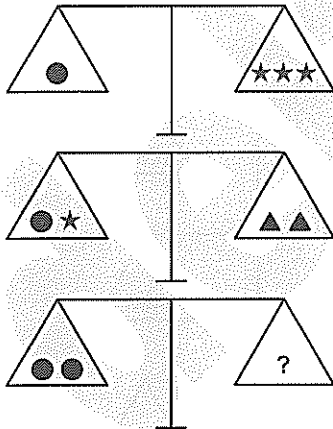
A	D	C	A	B	A	A	C	B	C
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1.



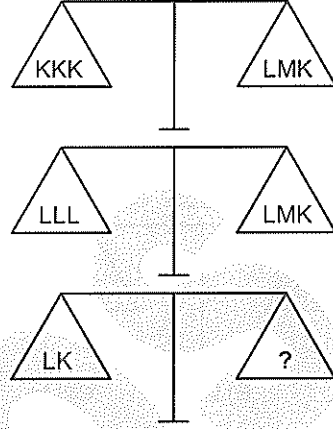
- A) xxx B) xx C) zzz
D) yy E) xy

2.



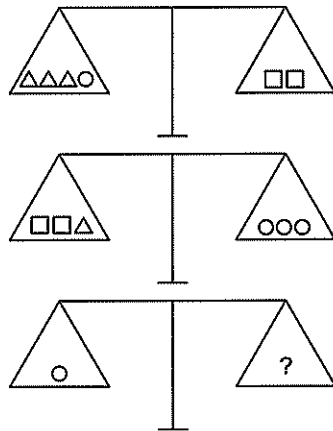
- A) ▲ B) ▲▲ C) ▲▲▲
D) ▲▲▲▲ E) ▲▲▲▲▲

3.



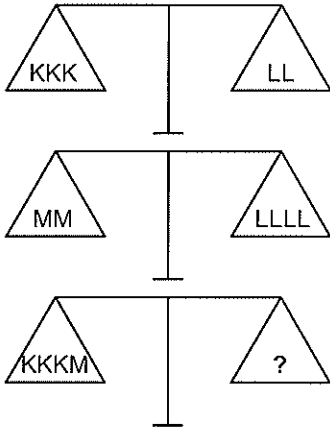
- A) M B) MM C) MMM
D) KLM E) KKM

4.



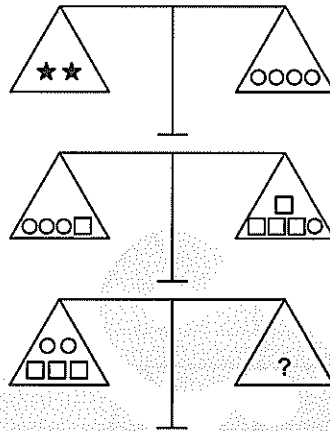
- A) △ B) △△ C) △△△
D) △△△△ E) △△△△△

5.



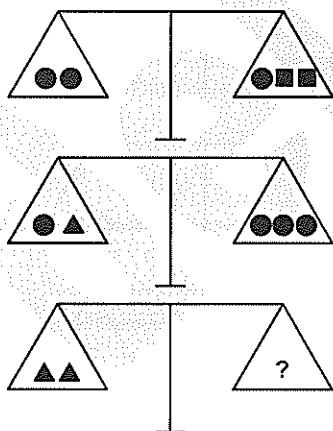
- A) L B) LL C) LLL
D) LLLL E) LLLLL

7.



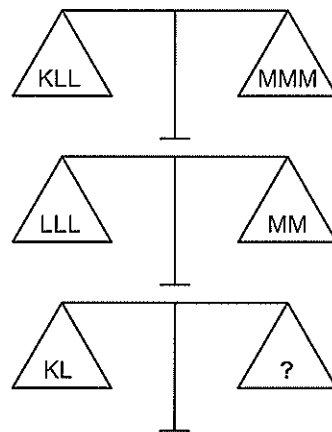
- A) ★ B) ★★ C) ★★★
D) ★□□ E) OOO★

6.



- A) ■■■■ B) ●●■ C) ●●●●
D) ■■■■● E) ●●●■■■

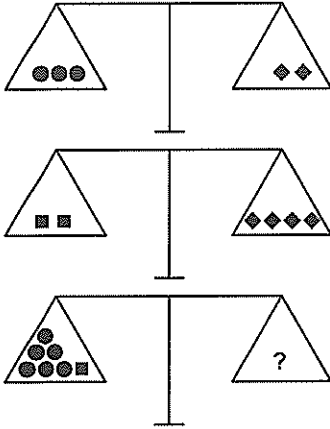
8.



- A) MM B) LL C) MLL
D) M E) KK

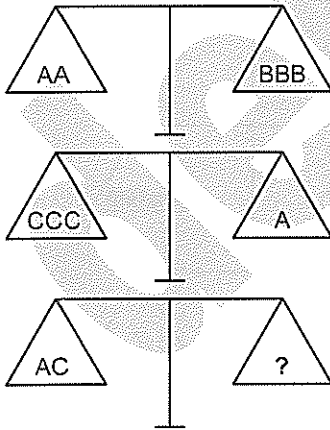
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1.



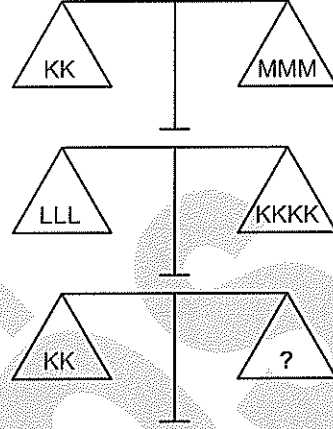
- A) ■■■◆ B) ■◆◆ C) ■■■■
D) ◆◆◆◆ E) ◆◆◆■

2.



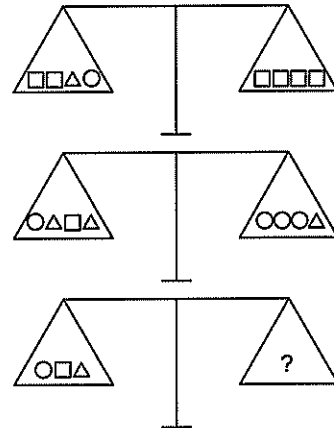
- A) 2A B) 2B C) 2C D) AB E) AAB

3.



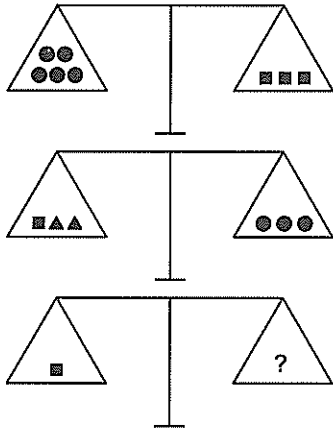
- A) LMM B) LLK C) KLM
D) ML E) LL

4.



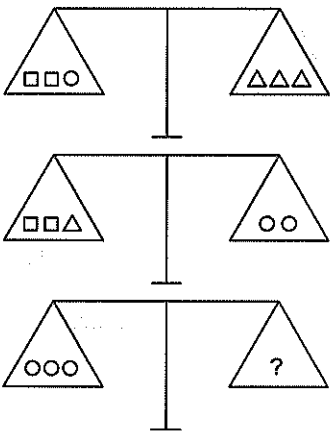
- A) ○○ B) ○□ C) □□
D) □□□○ E) △△□

5.



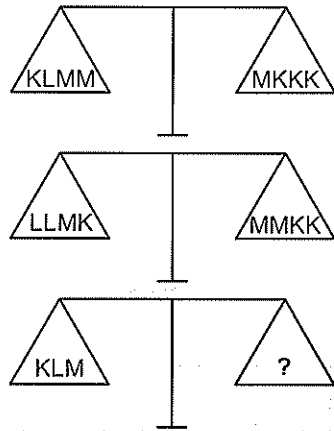
- A) ▲▲ B) ▲● C) ▲▲▲
 D) ●● E) ▲▲●●

6.



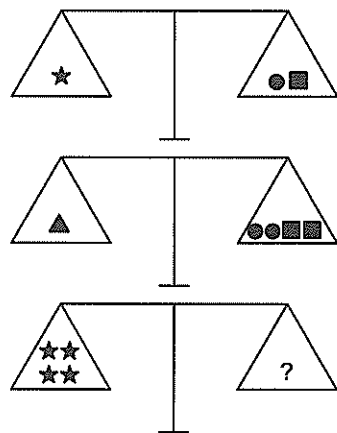
- A) △ B) △△ C) △△△
 D) △△△△ E) △△△△△

7.



- A) L B) LMMK C) LLM
 D) LLLM E) KL

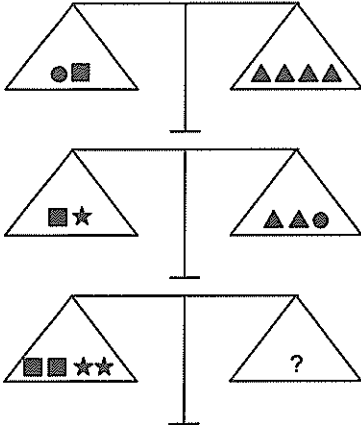
8.



- A) ▲ B) ▲▲ C) ▲▲▲
 D) ▲▲▲▲ E) ▲▲▲▲▲

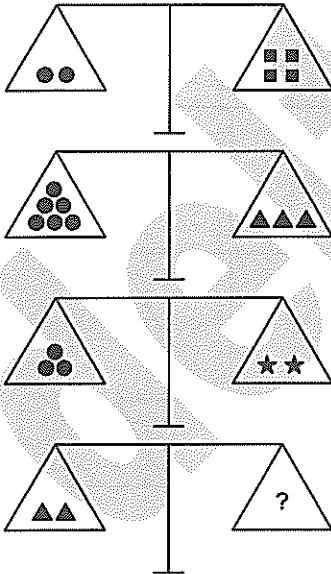
A	B	D	E	B	D	C	B
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1.



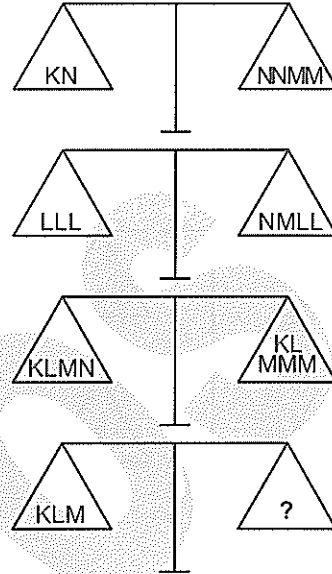
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D) ★▲●●● E) ●★■★

2.



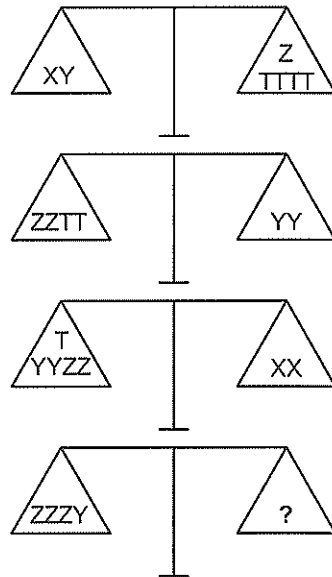
- A) ★★● B) ★★☆☆ C) ●●★
D) ■■★ E) ■●★

3.



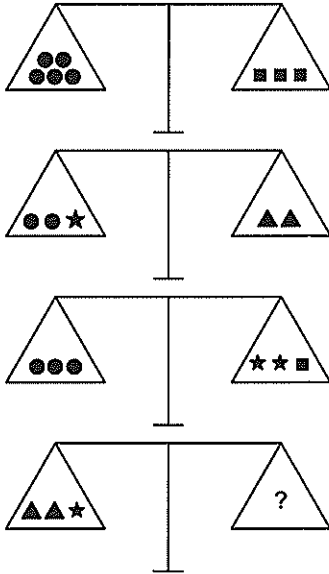
- A) N B) NN C) NNN
D) NNNN E) NNNNN

4.



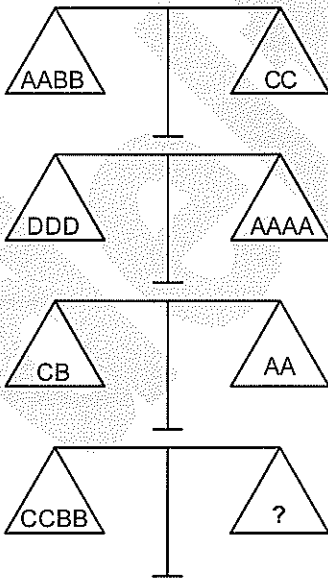
- A) XT B) XXT C) TTX D) XXX E) XT TT

5.



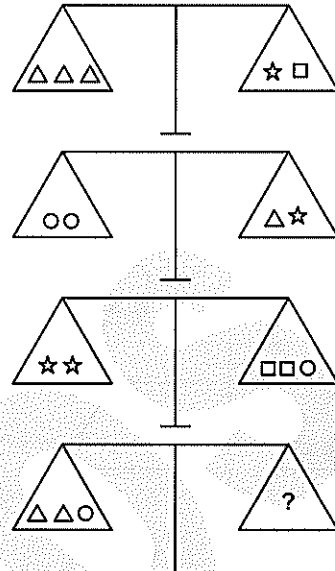
- A) ■ B) ●● C) ■■
 D) ●★ E) ●

6.



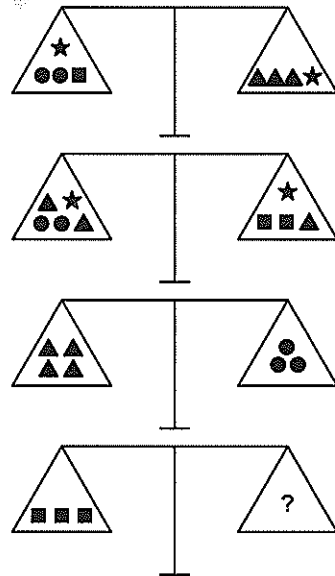
- A) DD B) DDD C) AA
 D) AAD E) BAAD

7.



- A) □□ B) □□□ C) □□★
 D) ★★☆☆ E) ★★□

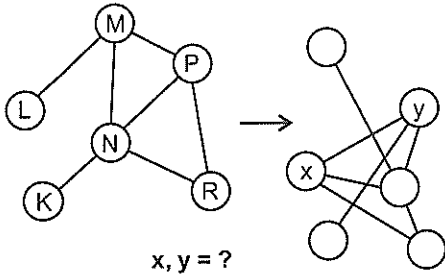
8.



- A) ● B) ●● C) ●●●
 D) ●●●● E) ●●●●●

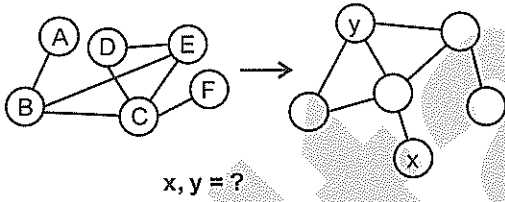
A	A	D	A	C	B	B	C
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1.



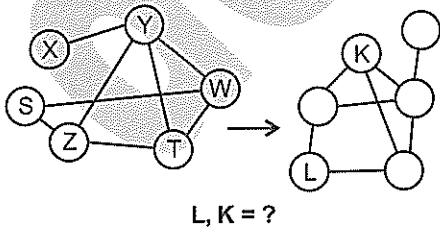
- A) M, P B) P, M C) N, P
D) P, N E) M, N

2.



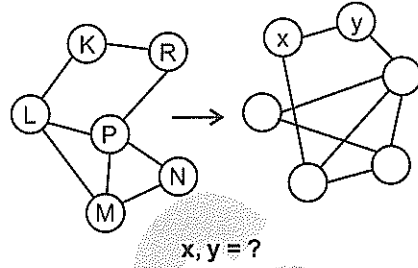
- A) F, D B) F, B C) F, E
D) A, D E) A, C

3.



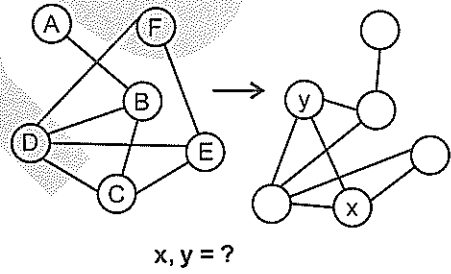
- A) S, W B) S, Z C) S, T
D) Y, S E) T, S

4.



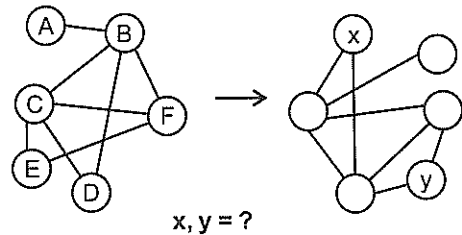
- A) K, N B) R, N C) K, R
D) N, R E) R, K

5.



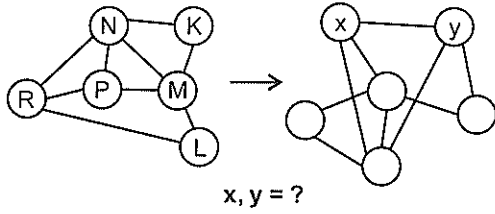
- A) E, B B) E, D C) B, C
D) C, E E) E, C

6.



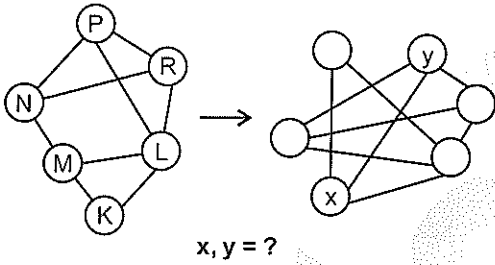
- A) B, D B) B, C C) E, D
D) D, E E) D, C

7.



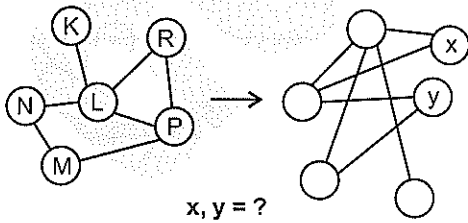
- A) P, R B) P, M C) R, P
D) P, N E) M, R

8.



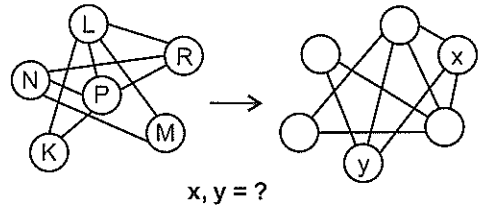
- A) M, R B) M, P C) M, N
D) N, M E) N, P

9.



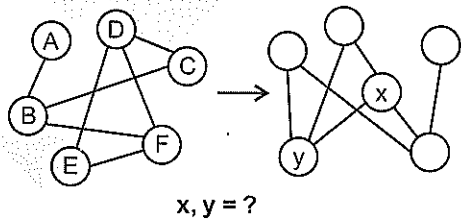
- A) R, P B) N, R C) N, M
D) R, M E) R, N

10.



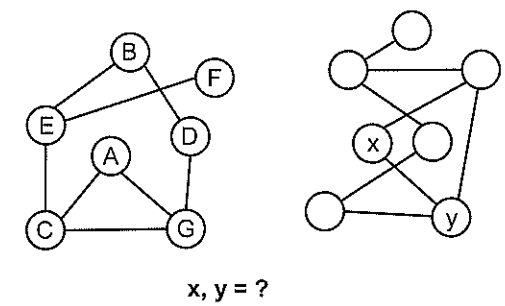
- A) R, N B) N, R C) K, N
D) K, R E) P, N

11.



- A) D, B B) B, D C) D, F
D) F, D E) F, B

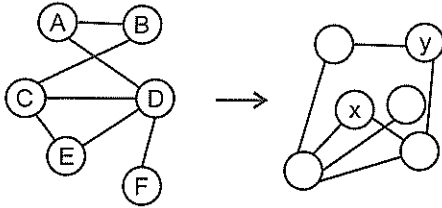
12.



- A) A, G B) E, B C) F, D
D) G, C E) B, A

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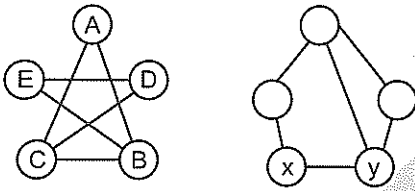
1.



$\Rightarrow x, y = ?$

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

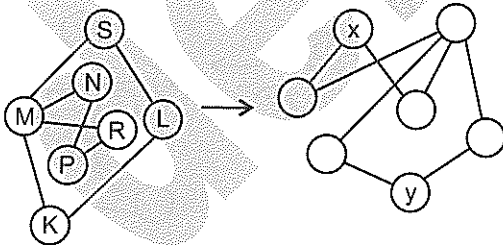
2.



$\Rightarrow x, y = ?$

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

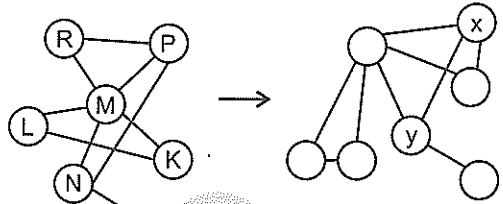
3.



$\Rightarrow x, y = ?$

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

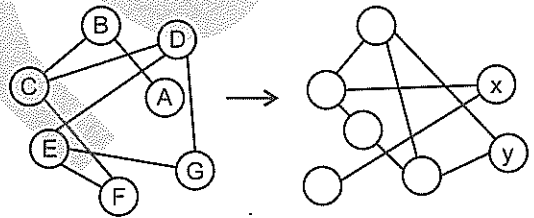
4.



$x, y = ?$

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

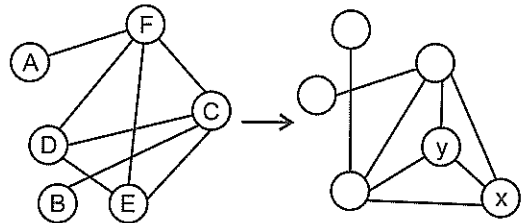
5.



$\Rightarrow x, y = ?$

- A) C, G B) B, F C) D, E
D) B, G E) A, D

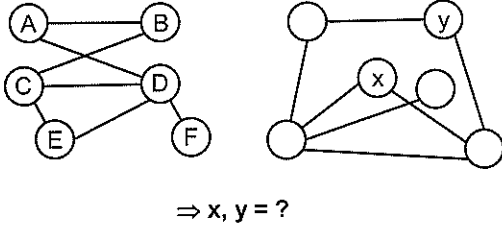
6.



$\Rightarrow x, y = ?$

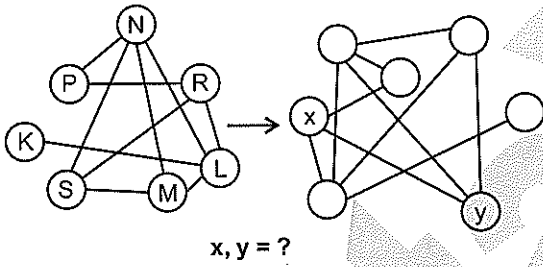
- A) E, A B) C, E C) D, C
D) C, A E) E, D

7.



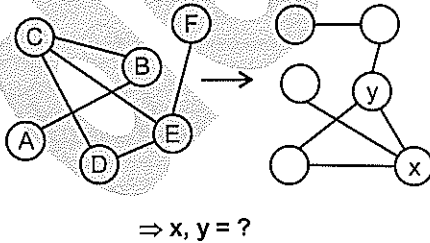
- A) D, E B) E, B C) C, D
D) A, B E) E, A

8.



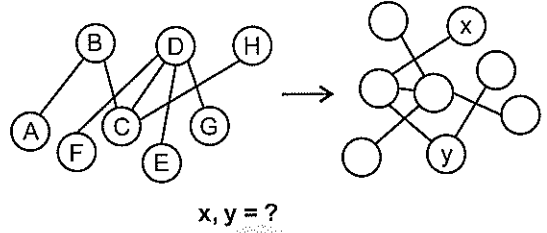
- A) R, S B) R, M C) L, S
D) L, M E) N, S

9.



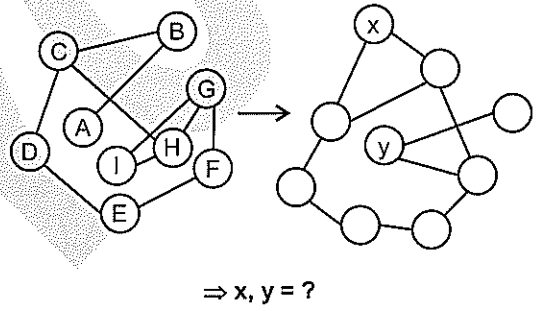
- A) D, B B) B, A C) E, C
D) D, C E) C, E

10.



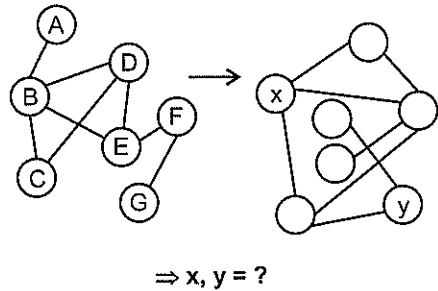
- A) A, B B) B, C C) G, F
D) H, B E) H, E

11.



- A) D, B B) E, I C) B, F
D) K, B E) I, B

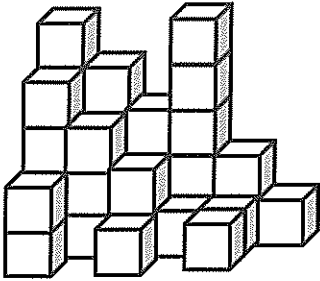
12.



- A) F, B B) E, D C) D, F
D) B, E E) C, F

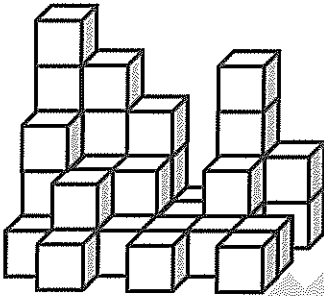
B	C	D	A	D	E	B	A	C	D	E	C
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1.



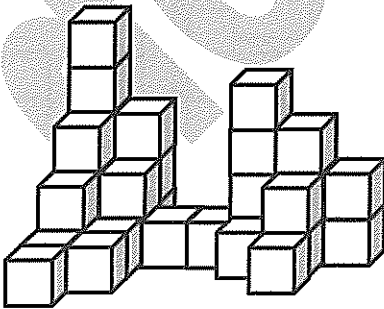
- A) 31 B) 32 C) 33 D) 34 E) 35

2.



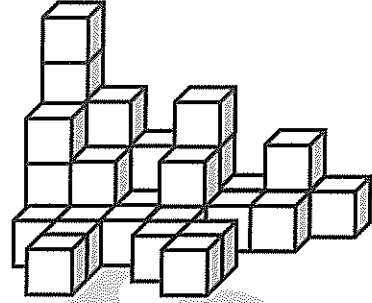
- A) 38 B) 39 C) 40 D) 41 E) 42

3.



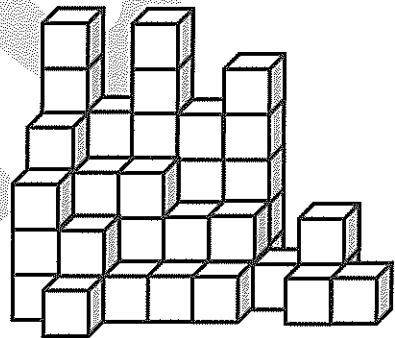
- A) 34 B) 35 C) 36 D) 37 E) 38

4.



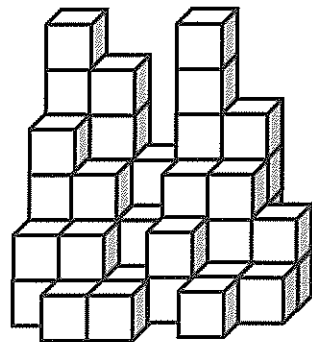
- A) 34 B) 35 C) 36 D) 37 E) 38

5.



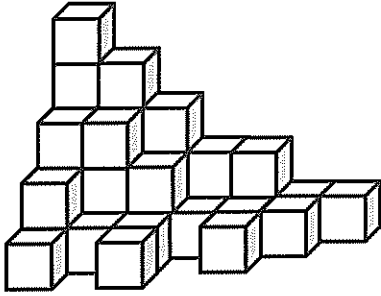
- A) 51 B) 52 C) 53 D) 54 E) 55

6.



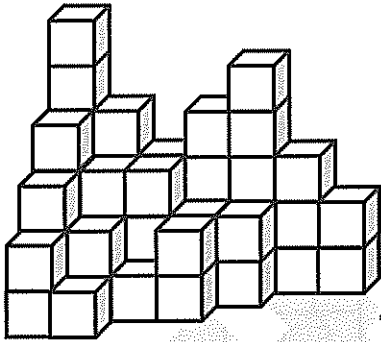
- A) 52 B) 53 C) 54 D) 55 E) 56

7.



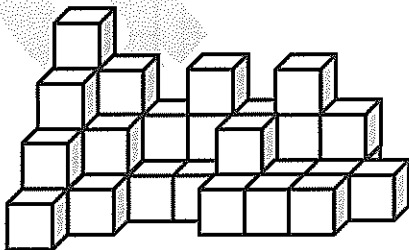
- A) 36 B) 37 C) 38 D) 39 E) 40

8.



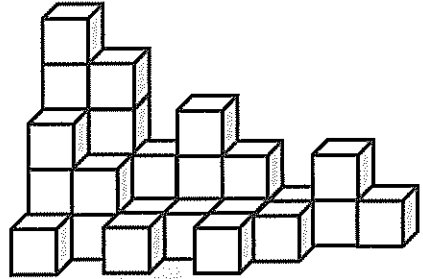
- A) 50 B) 51 C) 52 D) 53 E) 54

9.



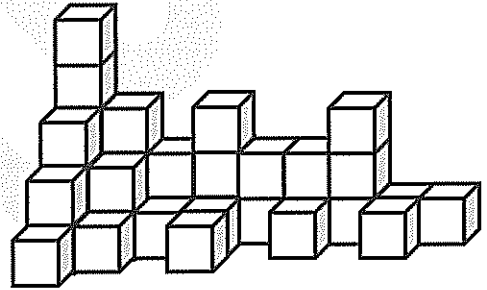
- A) 38 B) 39 C) 40 D) 41 E) 42

10.



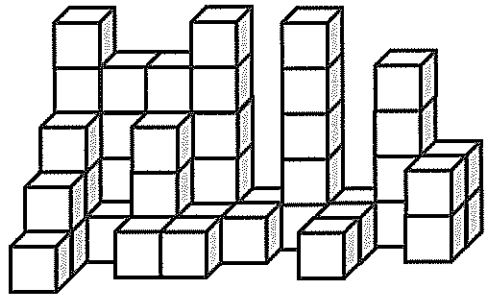
- A) 32 B) 33 C) 34 D) 35 E) 36

11.



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

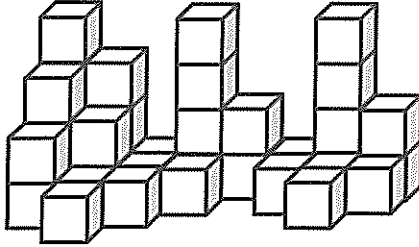
12.



- A) 47 B) 48 C) 49 D) 50 E) 51

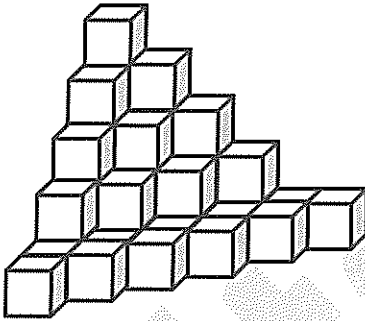
E	B	A	C	C	B	A	C	A	A	E	C
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1.



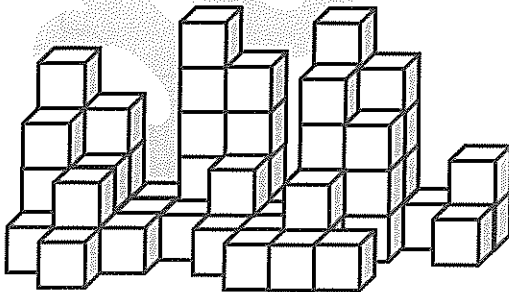
A) 36 B) 37 C) 38 D) 39 E) 40

2.



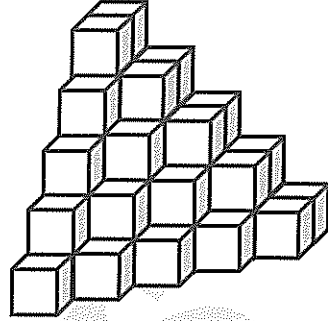
A) 40 B) 41 C) 42 D) 43 E) 44

3.



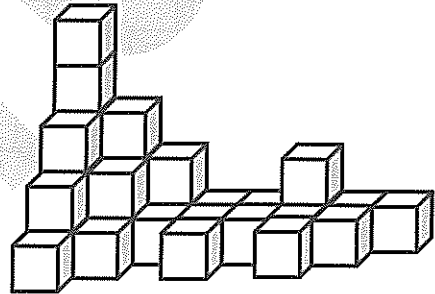
A) 58 B) 59 C) 60 D) 61 E) 62

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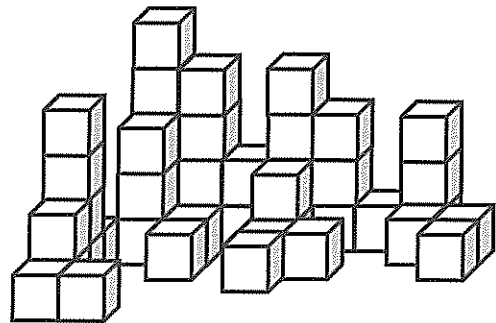
A) 48 B) 49 C) 50 D) 51 E) 52

5.



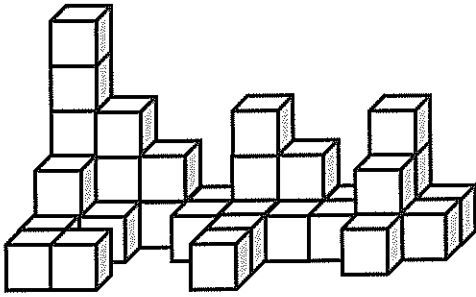
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6.



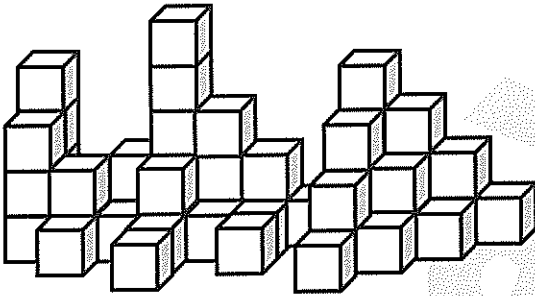
A) 40 B) 41 C) 42 D) 43 E) 44

7.



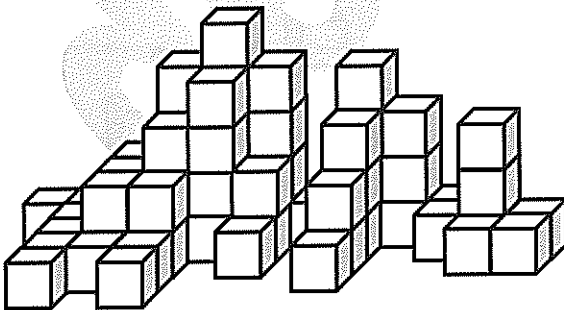
A) 35 B) 36 C) 37 D) 38 E) 39

8.



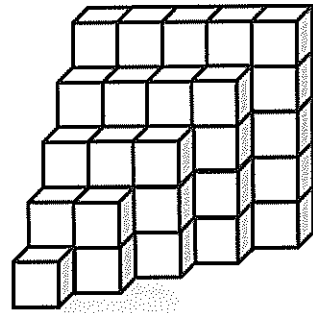
A) 50 B) 51 C) 52 D) 53 E) 54

9.



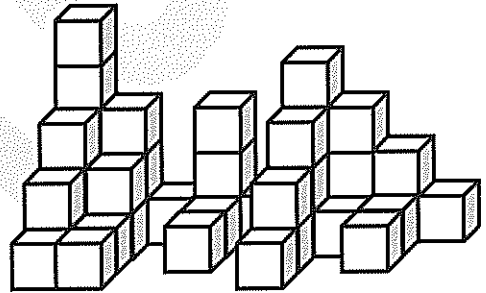
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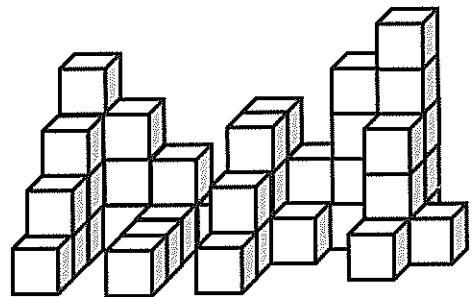
A) 51 B) 52 C) 53 D) 54 E) 55

11.



A) 43 B) 44 C) 45 D) 46 E) 47

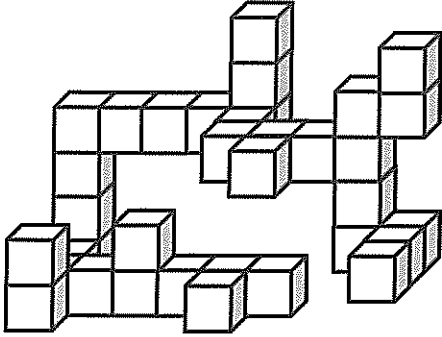
12.



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

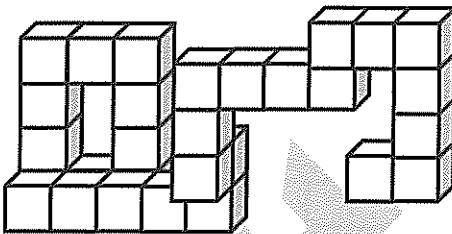
B	B	C	C	B	E	C	B	B	E	B	E
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1.



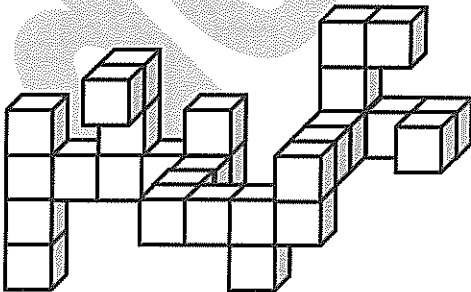
A) 31 B) 32 C) 33 D) 34 E) 35

2.



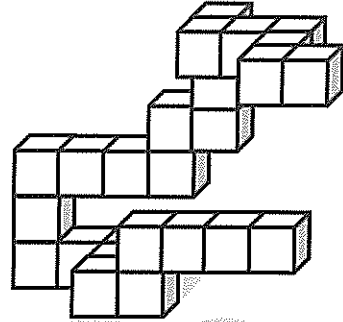
A) 25 B) 26 C) 27 D) 28 E) 29

3.



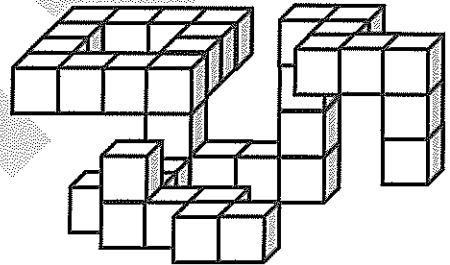
A) 28 B) 29 C) 30 D) 31 E) 32

4.



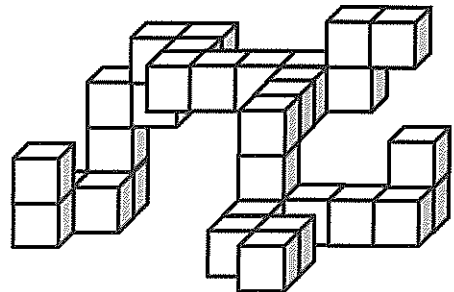
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5.



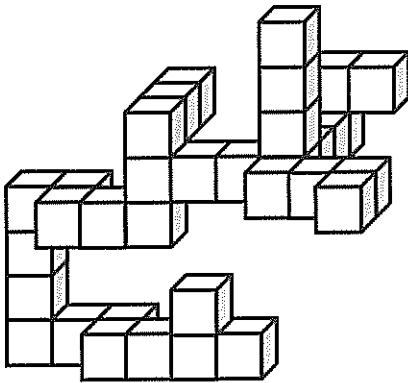
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6.



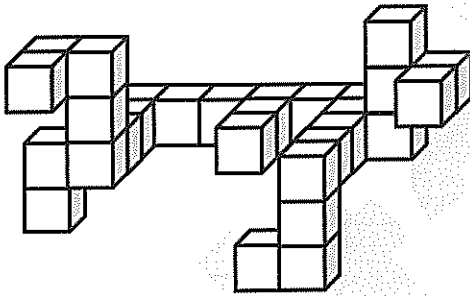
A) 32 B) 33 C) 34 D) 35 E) 36

7.



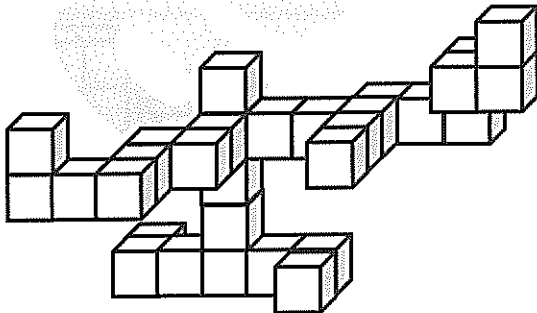
- A) 31 B) 32 C) 33 D) 34 E) 35

8.



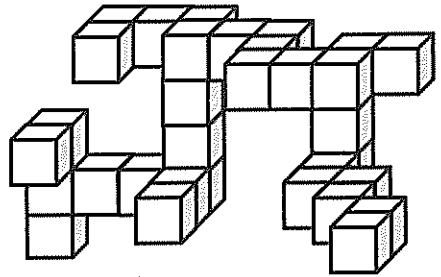
- A) 28 B) 29 C) 30 D) 31 E) 32

9.



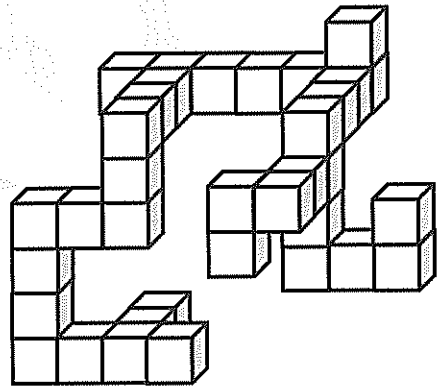
- A) 30 B) 31 C) 32 D) 33 E) 34

10.



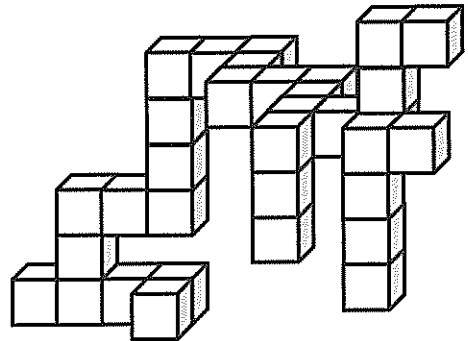
- A) 30 B) 31 C) 32 D) 33 E) 34

11.

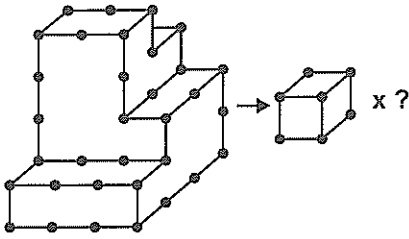


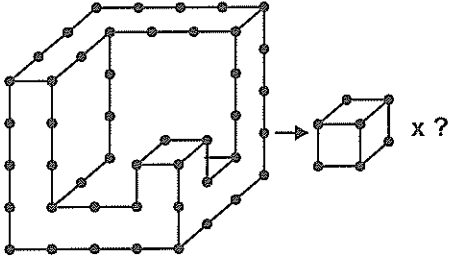
- A) 32 B) 33 C) 34 D) 35 E) 36

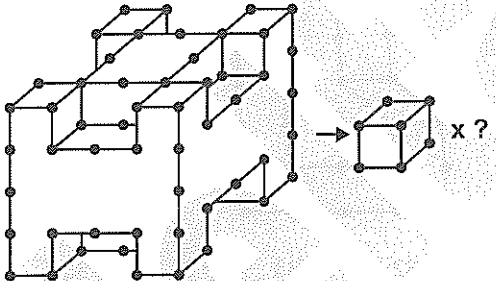
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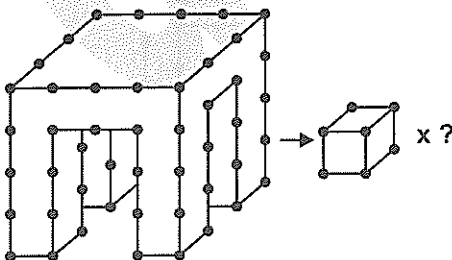


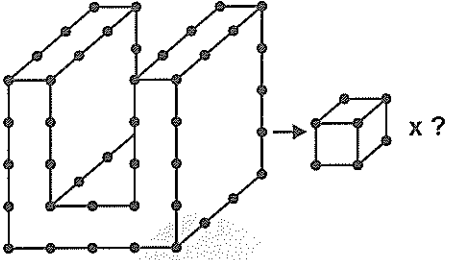
- A) 30 B) 31 C) 32 D) 33 E) 34

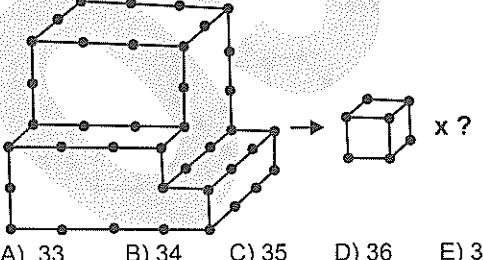
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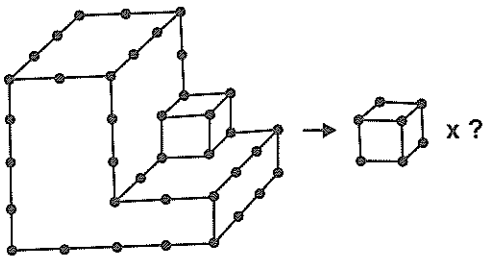
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2. 

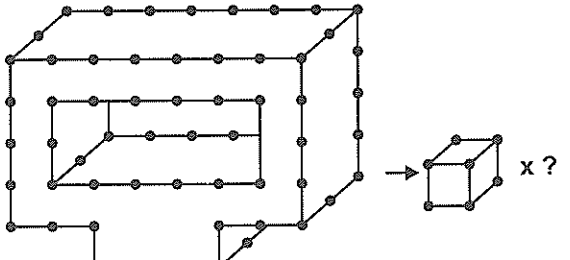
A) 30 B) 31 C) 32 D) 33 E) 34
3. 

A) 38 B) 39 C) 40 D) 41 E) 42
4. 

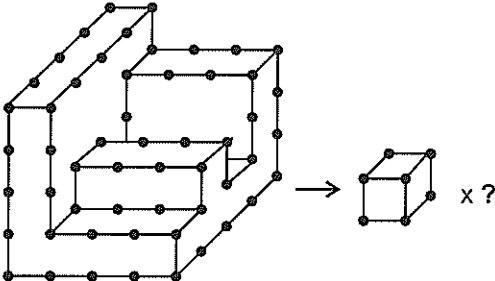
A) 20 B) 21 C) 22 D) 23 E) 24
5. 

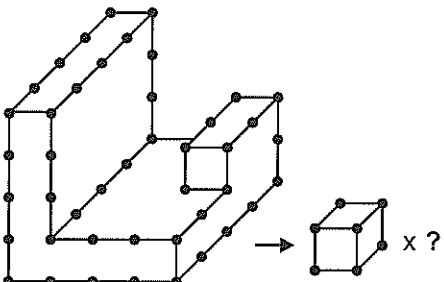
A) 24 B) 26 C) 28 D) 30 E) 32
6. 

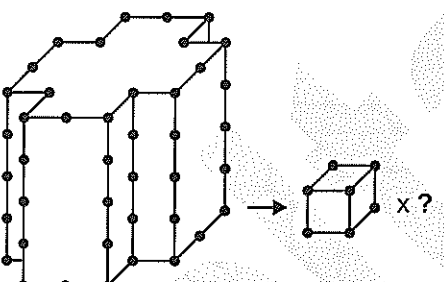
A) 33 B) 34 C) 35 D) 36 E) 37
7. 

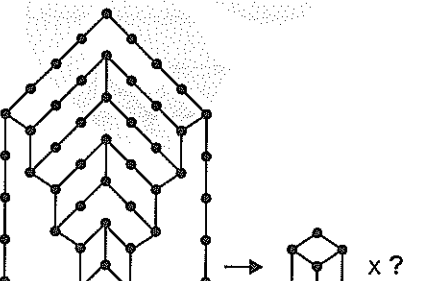
A) 29 B) 30 C) 31 D) 32 E) 33
8. 

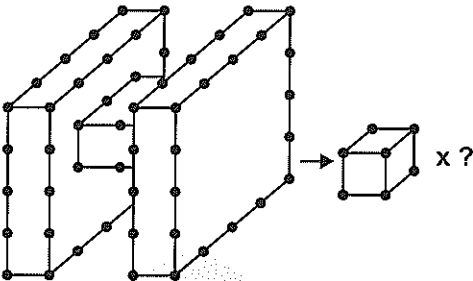
A) 39 B) 40 C) 41 D) 42 E) 43

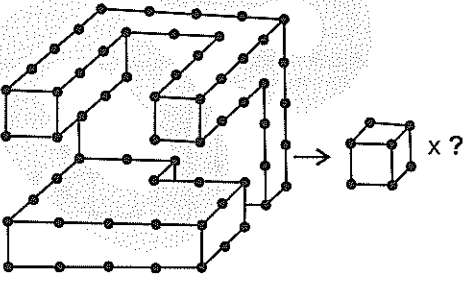
9.  x ?
 A) 37 B) 38 C) 39 D) 40 E) 41

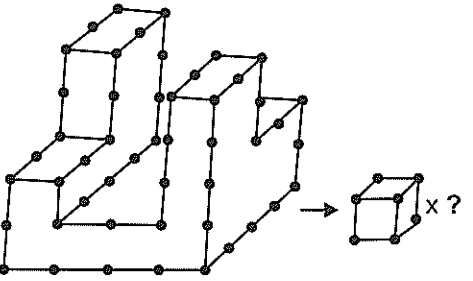
10.  x ?
 A) 29 B) 30 C) 31 D) 32 E) 33

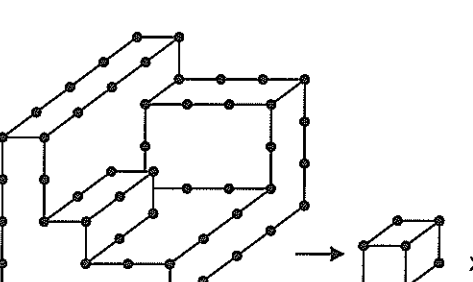
11.  x ?
 A) 44 B) 45 C) 46 D) 47 E) 48

12.  x ?
 A) 36 B) 37 C) 38 D) 39 E) 40

13.  x ?
 A) 34 B) 35 C) 36 D) 37 E) 38

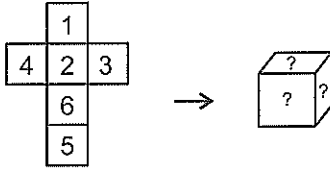
14.  x ?
 A) 30 B) 31 C) 32 D) 33 E) 34

15.  x ?
 A) 32 B) 33 C) 34 D) 35 E) 36

16.  x ?
 A) 33 B) 34 C) 35 D) 36 E) 37

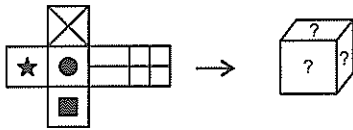
B	B	C	E	D	A	C	D	A	B	E	E	C	C	A	D
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1.



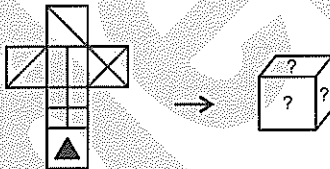
- A) B) C)
D) E)

2.



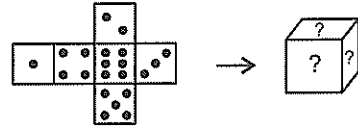
- A) B) C)
D) E)

3.



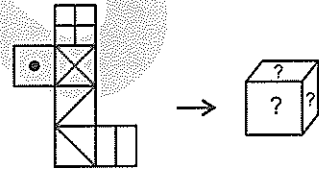
- A) B) C)
D) E)

4.



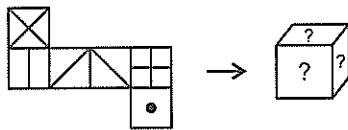
- A) B) C)
D) E)

5.



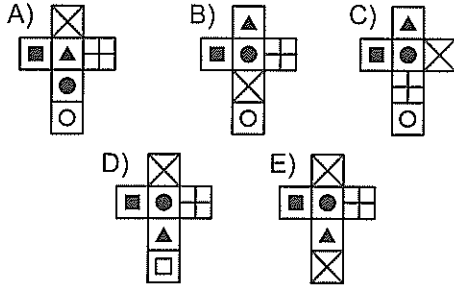
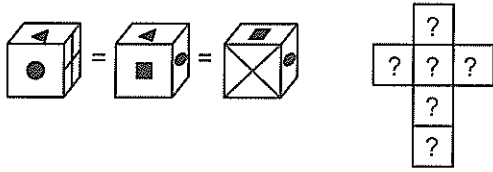
- A) B)
C) D)
E)

6.

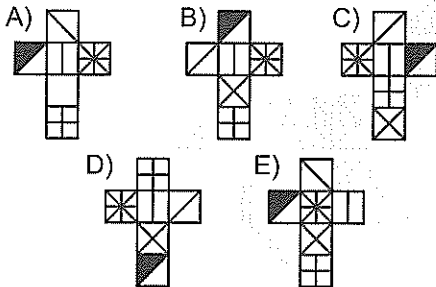
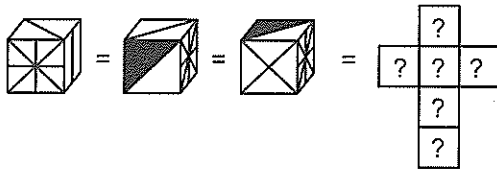


- A) B)
C) D)
E)

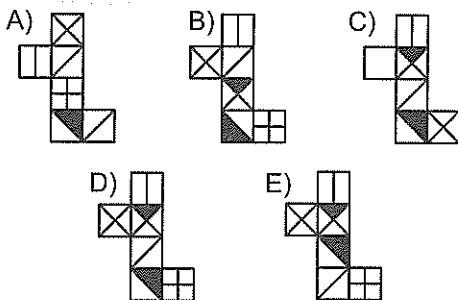
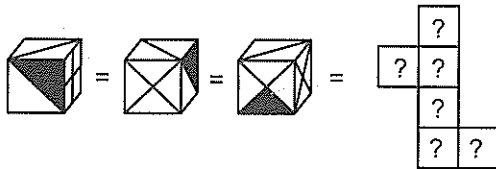
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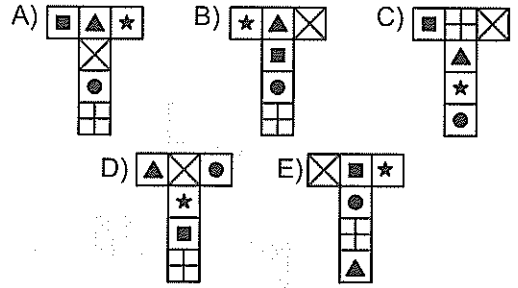
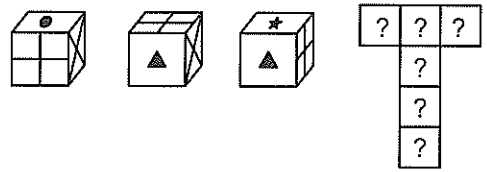
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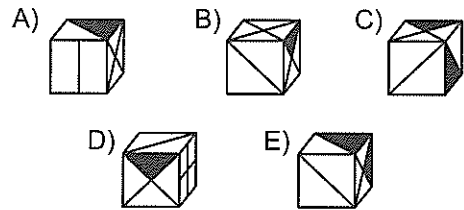
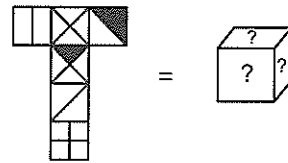
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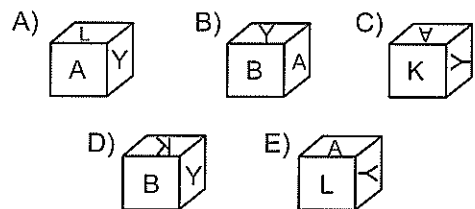
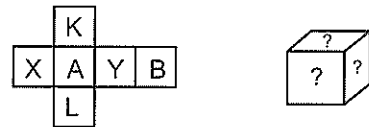
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11.

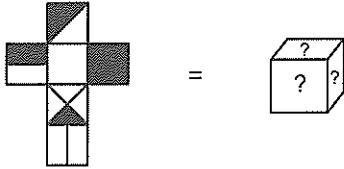


12.



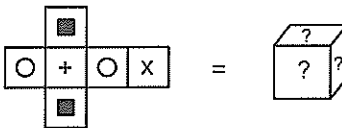
B D C D E C B E D B C E

1.



- A) B) C)
D) E)

2.



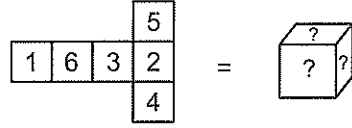
- A) B) C)
D) E)

3.



- A) B) C)
D) E)

4.



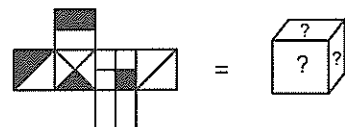
- A) B) C)
D) E)

5.



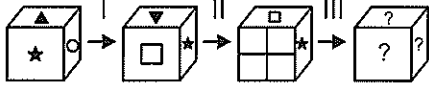
- A) B) C)
D) E)

6.



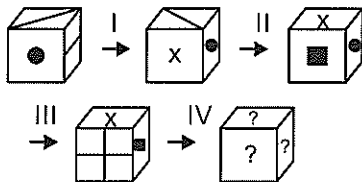
- A) B) C)
D) E)

7.



- A) B) C) D) E)

8.



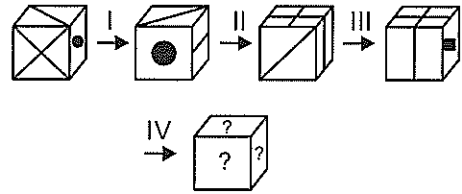
- A) B) C) D) E)

9.



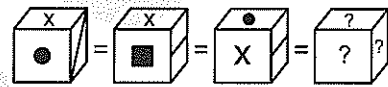
- A) B) C) D) E)

10.



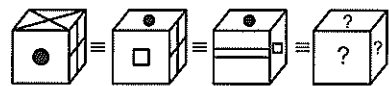
- A) B) C) D) E)

11.



- A) B) C) D) E)

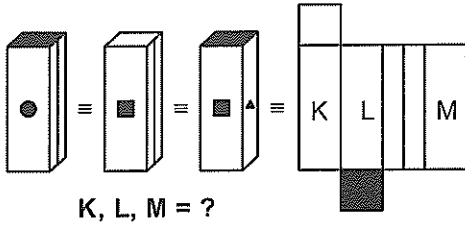
12.



- A) B) C) D) E)

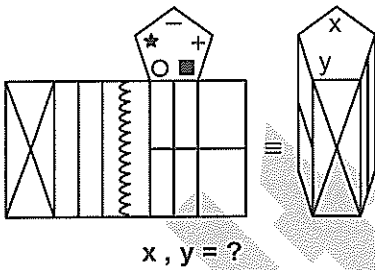
D	D	B	A	D	E	C	C	B	D	D	A
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1.



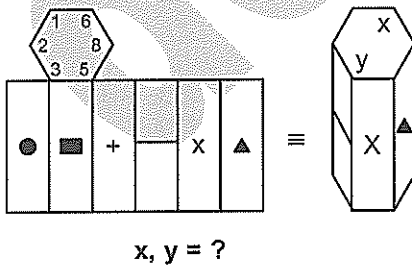
- | | K | L | M |
|----|---|---|---|
| A) | ■ | ▲ | ● |
| B) | ▲ | ● | ■ |
| C) | ● | ■ | ▲ |
| D) | ■ | ● | ▲ |
| E) | ▲ | ■ | ● |

2.



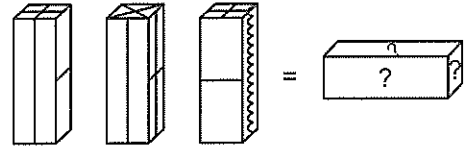
- A) +, O B) ★, O C) O, +
D) O, ★ E) O, ■

3.



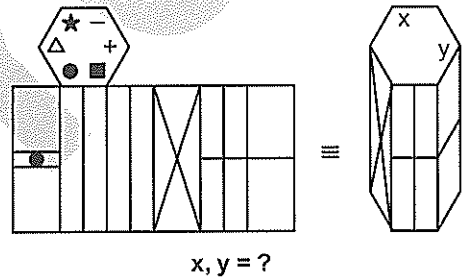
- A) 3, 6 B) 8, 2 C) 1, 5 D) 6, 3 E) 2, 8

4.



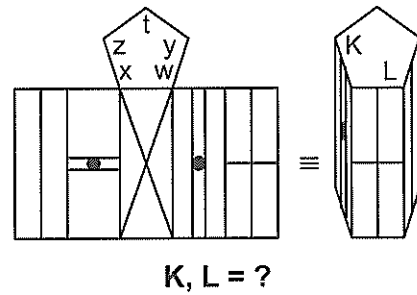
- A) B)
- C) D)
- E)

5.



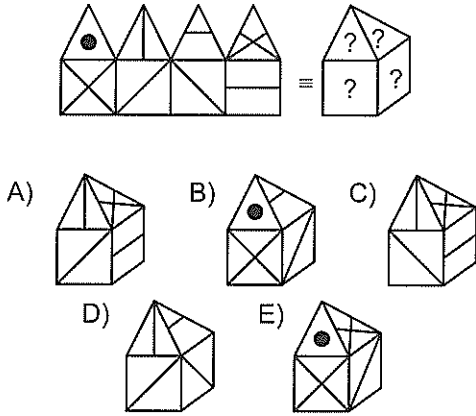
- A) ■, ★ B) ■, - C) ■, Δ
D) Δ, ■ E) Δ, -

6.

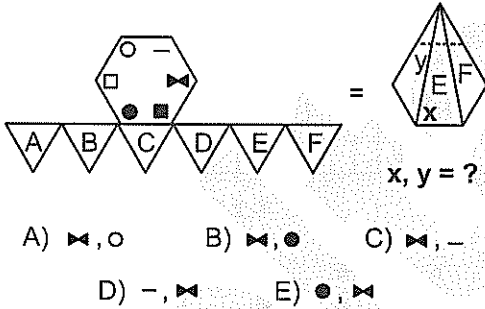


- A) t, w B) z, w C) x, y
D) w, t E) w, z

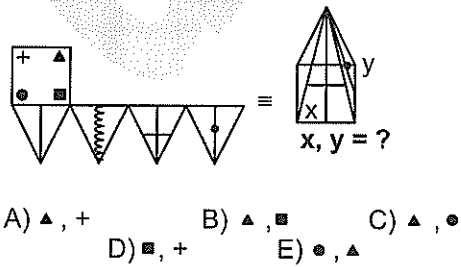
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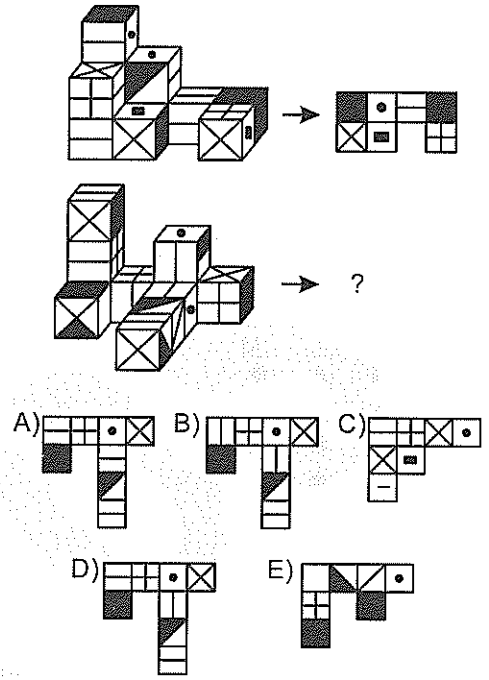
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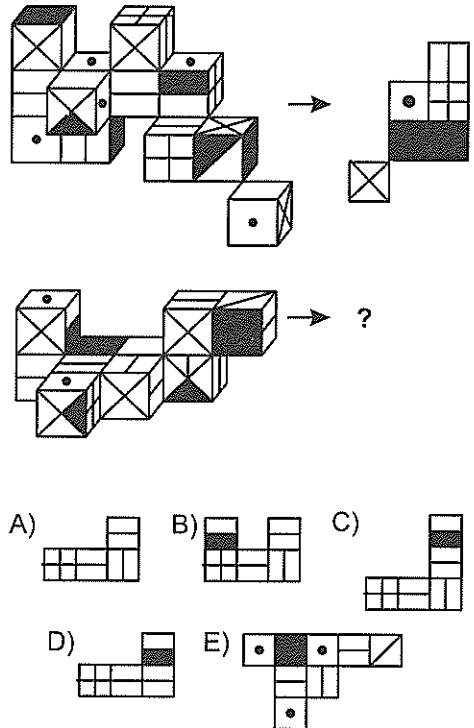
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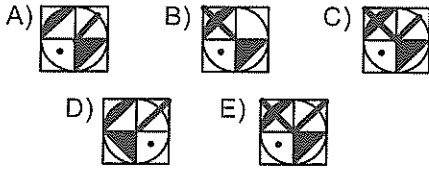
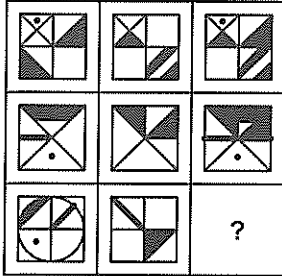


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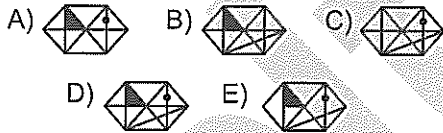
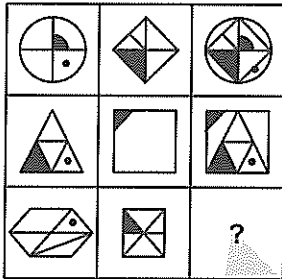


E	C	A	E	C	D	D	B	C	D	A
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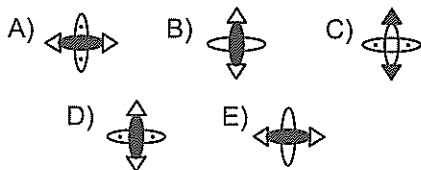
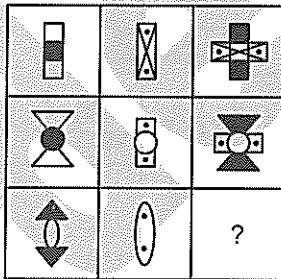
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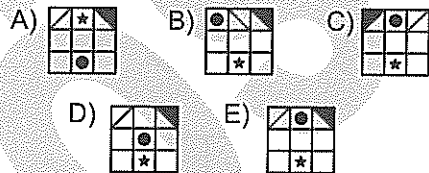
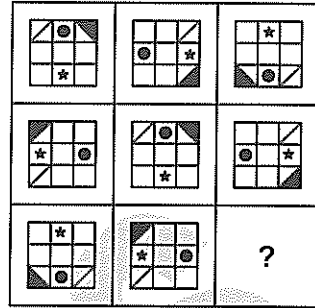
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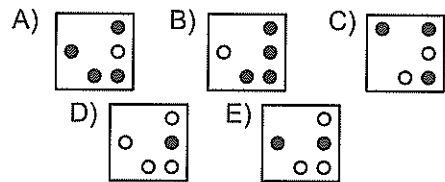
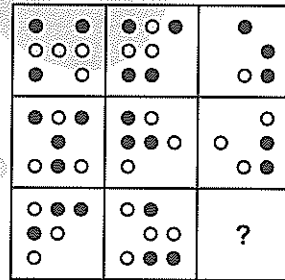
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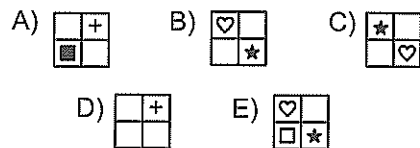
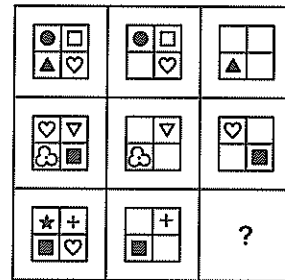
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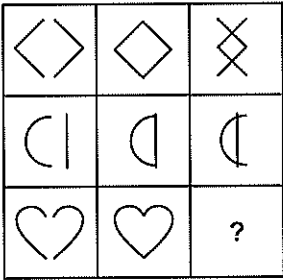
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6.

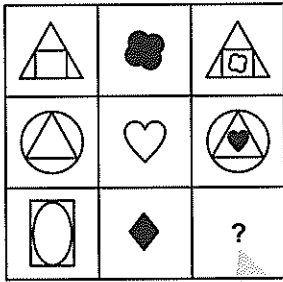


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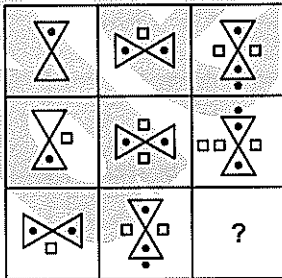
- A) B) C)
 D) E)

8.



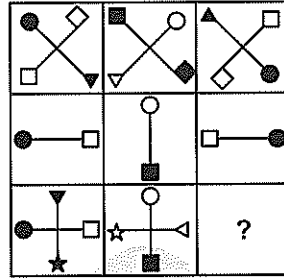
- A) B) C)
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9.



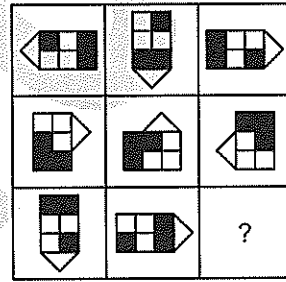
- A) B) C)
 D) E)

10.



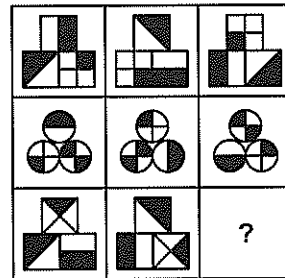
- A) B) C)
 D) E)

11.



- A) B) C)
 D) E)

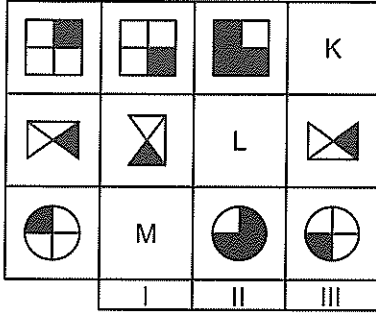
12.



- A) B) C)
 D) E)

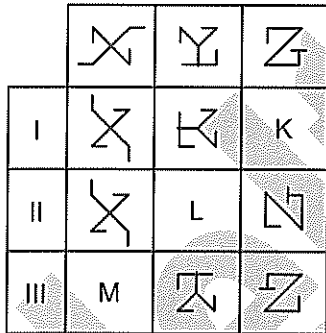
C D D E D C B D C B A D

1.



- | | | | |
|----|----------|----------|----------|
| | <u>K</u> | <u>L</u> | <u>M</u> |
| A) | | | |
| B) | | | |
| C) | | | |
| D) | | | |
| E) | | | |

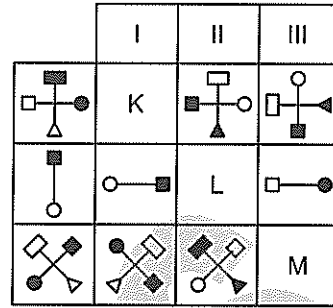
2.



= K, L, M = ?

- | | | | |
|----|----------|----------|----------|
| | <u>K</u> | <u>L</u> | <u>M</u> |
| A) | | | |
| B) | | | |
| C) | | | |
| D) | | | |
| E) | | | |

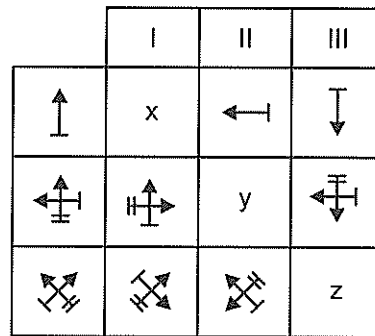
3.



K, L, M = ?

- | | | | |
|----|----------|----------|----------|
| | <u>K</u> | <u>L</u> | <u>M</u> |
| A) | | | |
| B) | | | |
| C) | | | |
| D) | | | |
| E) | | | |

4.



x, y, z = ?

- | | | | |
|----|----------|----------|----------|
| | <u>x</u> | <u>y</u> | <u>z</u> |
| A) | | | |
| B) | | | |
| C) | | | |
| D) | | | |
| E) | | | |

5.

	I	II	III
	K		
			M
		L	

K, L, M = ?

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

6.

	I	II	III
			M
		L	
	K		

K, L, M = ?

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

7.

	I	II	III
			M
		L	
	K		

K, L, M = ?

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

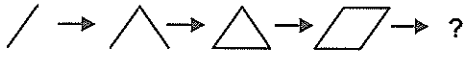
8.

	I	II	III
			z
		y	
	x		

x, y, z = ?

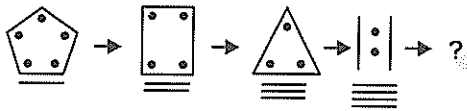
- | | x | y | z |
|----|---|---|---|
| A) | | | |
| B) | | | |
| C) | | | |
| D) | | | |
| E) | | | |

1.



- A) B) C) D) E)

2.



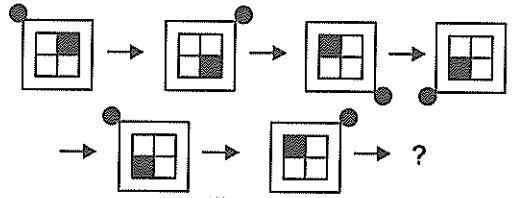
- A) B) C) D) E)

3.



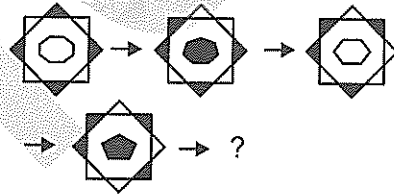
- A) B) C) D) E)

4.



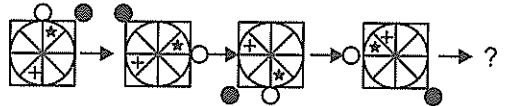
- A) B) C) D) E)

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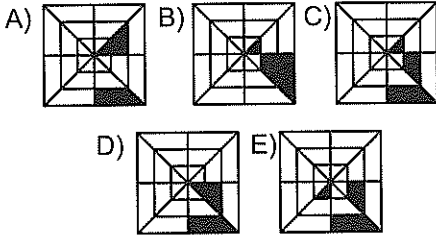
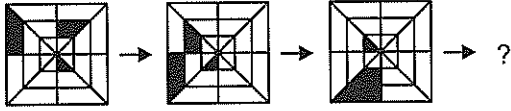
- A) B) C) D) E)

6.

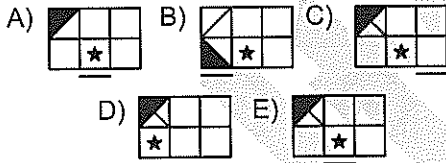
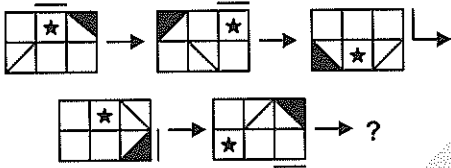


- A) B) C) D) E)

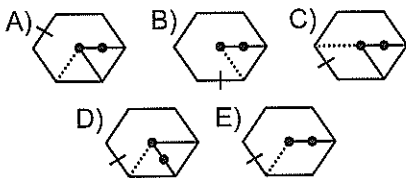
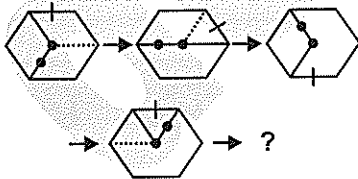
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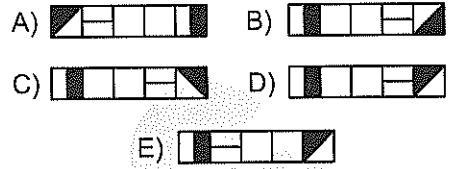
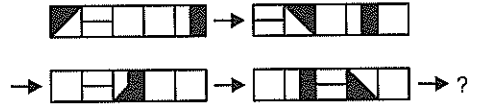
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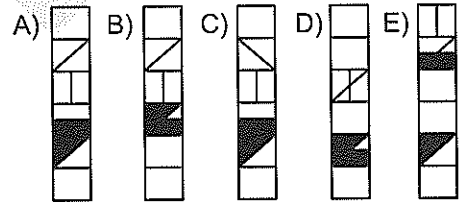
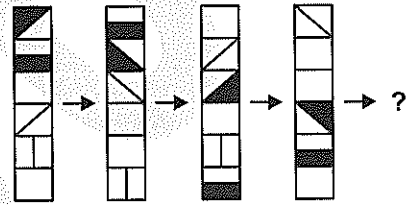
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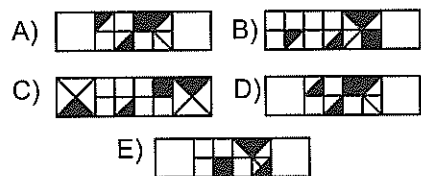
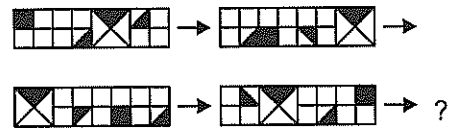
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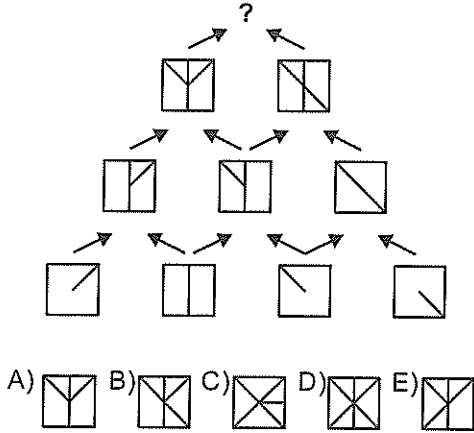
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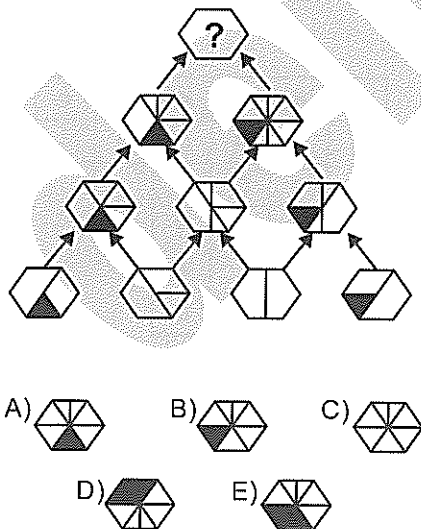
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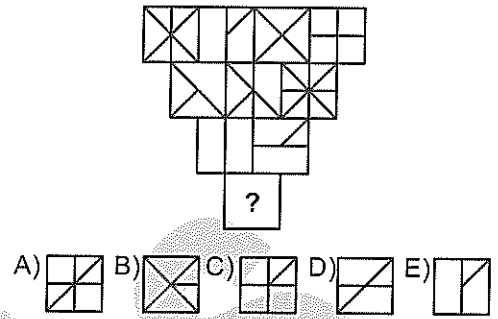
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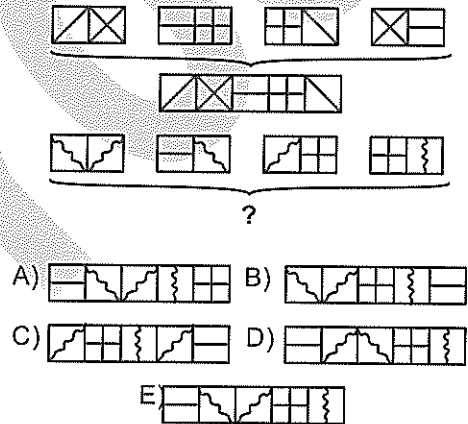
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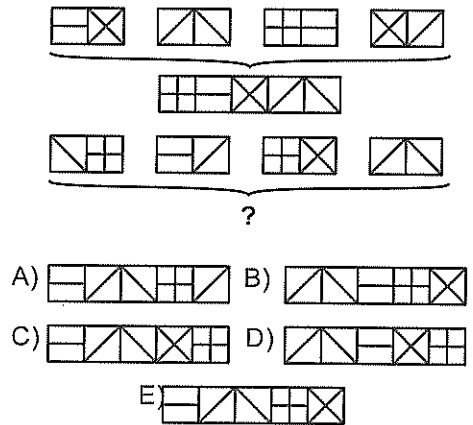
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4.



5.



6.

A) B) C)

D) E)

7.

A) B) C)

D) E)

8.

A) B)

C) D)

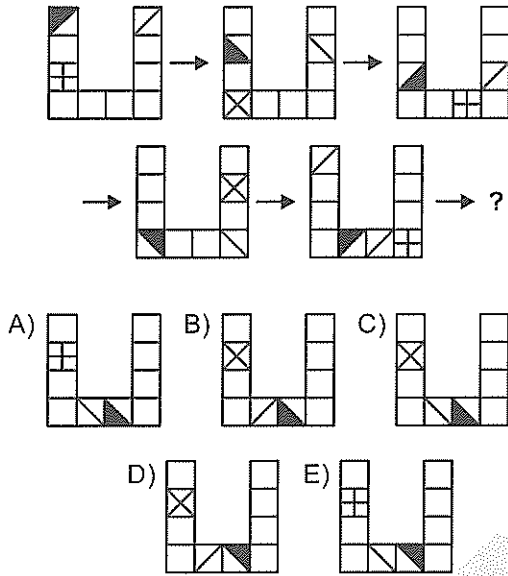
E)

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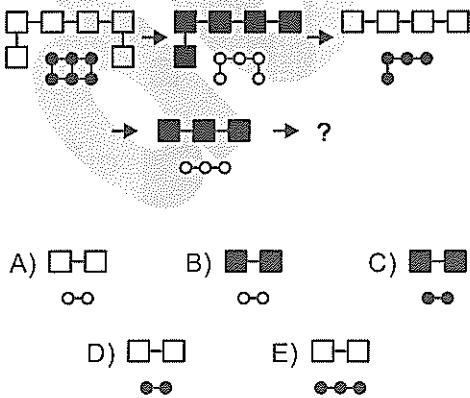
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D) E)

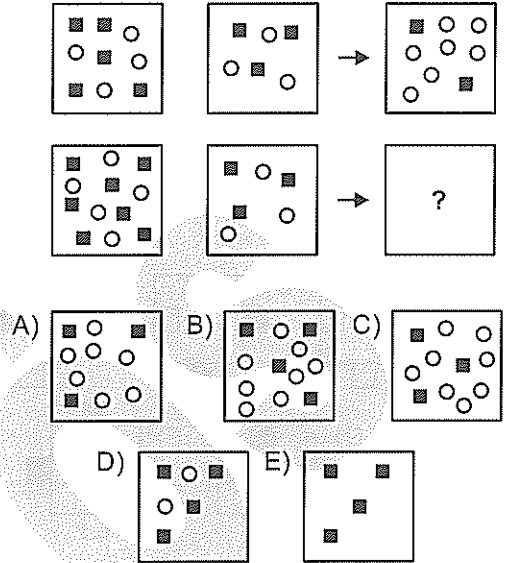
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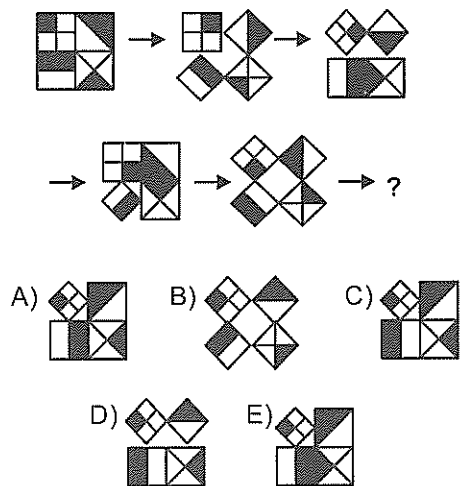
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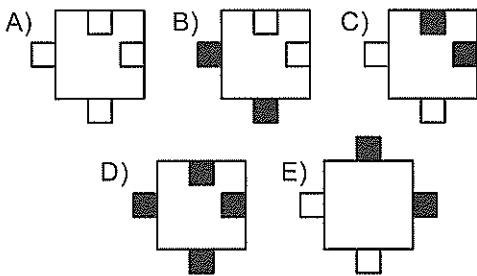
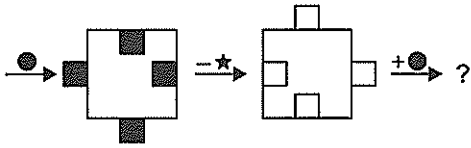
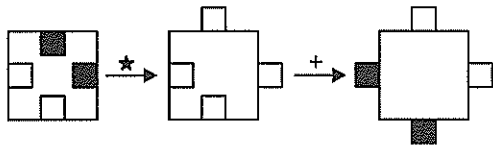
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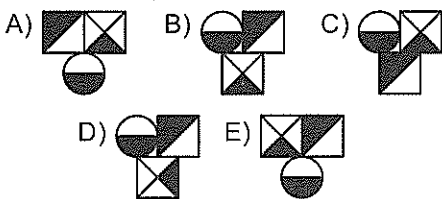
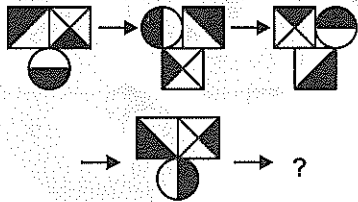
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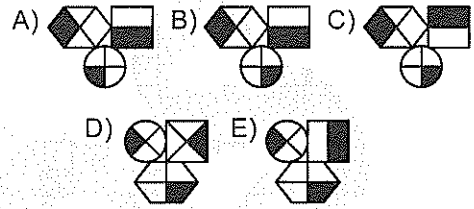
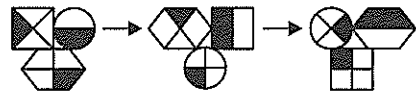
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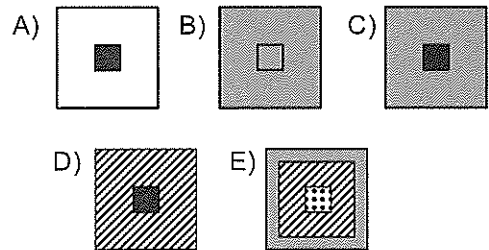
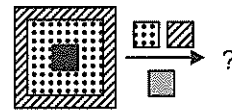
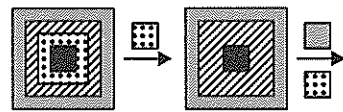
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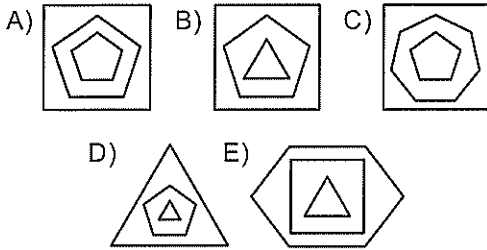
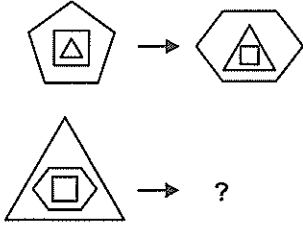


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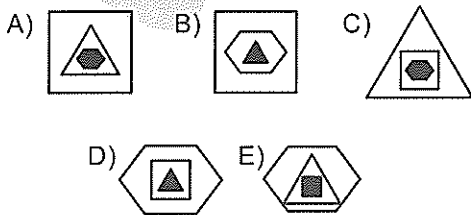
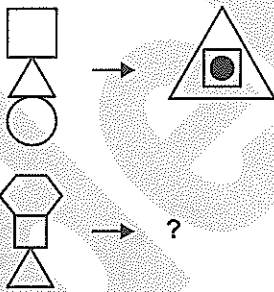


C	D	B	C	D	B	B	C
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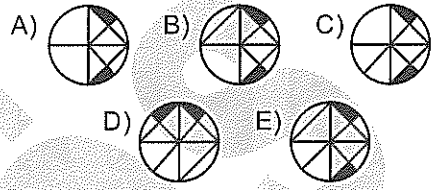
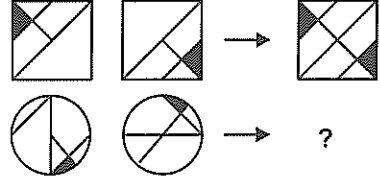
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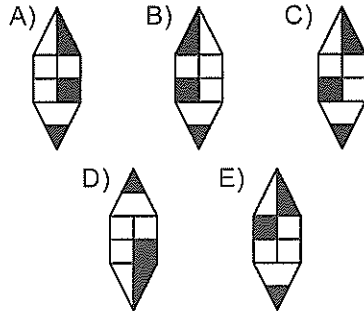
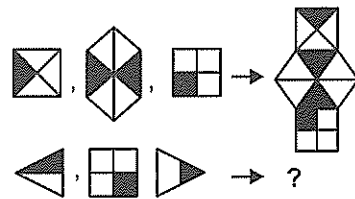
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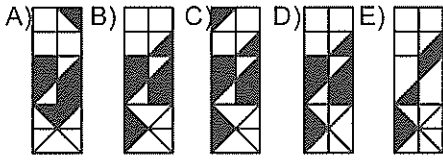
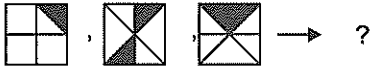
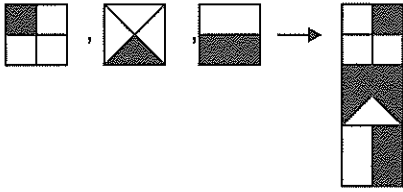
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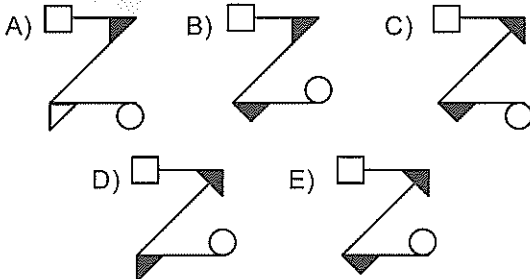
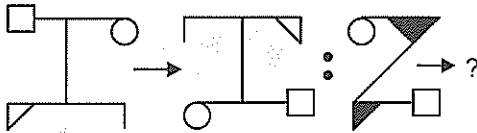
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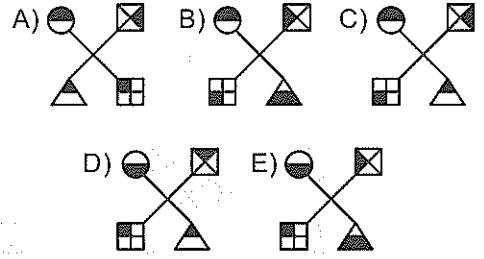
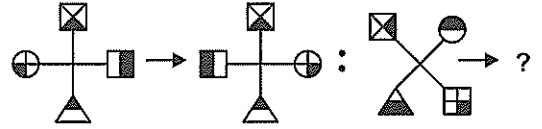
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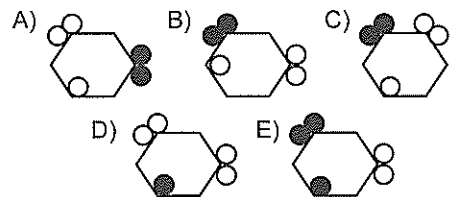
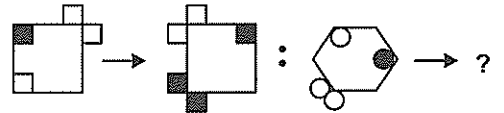
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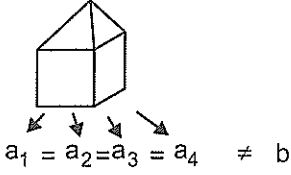


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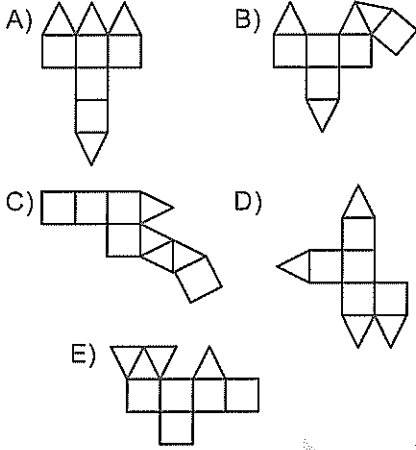
A	B	E	C	D	C	B	E
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1.

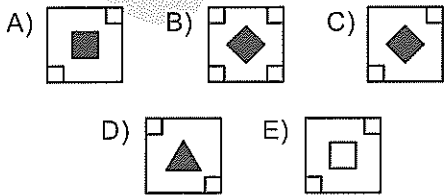
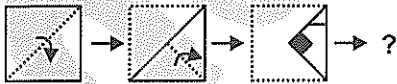


$b = ?$

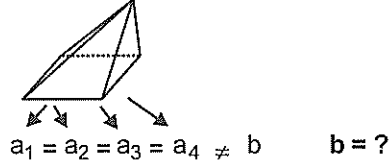
Aşağıdakilerden hangisi yukarıdaki nesnenin açılımlarından değildir?



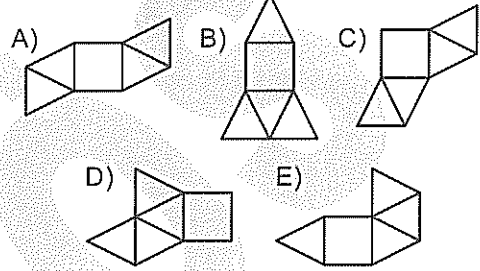
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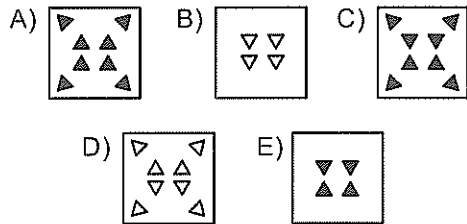
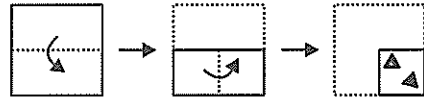
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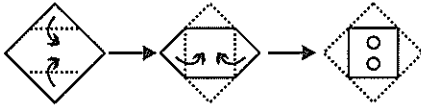
Aşağıdakilerden hangisi yukarıdaki şeklin açılımlarından değildir?



4.



5.



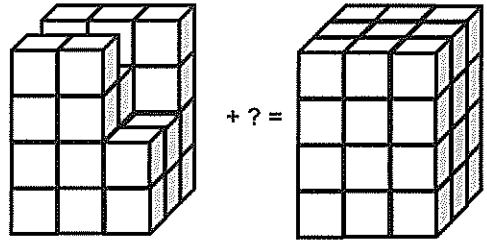
- A)
- B)
- C)
- D)
- E)

6.



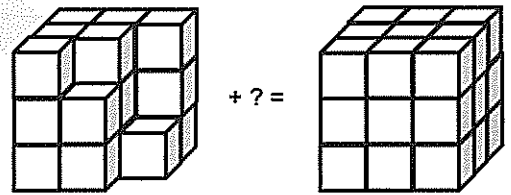
- A)
- B)
- C)
- D)
- E)

7.



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

8.



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

B	C	E	C	C	D	A	D
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1. ve 2. soruları aşağıdaki bilgilere göre cevaplayınız.

Yukarıdaki tablonun kutucuklarına; 28, 29, 30, 31, 32, 33, 34, 35 ve 36 sayıları her satır, her sütun ve her köşegen toplamı eşit olacak şekilde yerleştiriliyor.

1. Satır, sütun ve köşegen toplamları kaç eşittir?

A) 94 B) 95 C) 96 D) 97 E) 98

2. Tam ortaya gelecek olan sayı hangisidir?

A) 29 B) 30 C) 31 D) 32 E) 33

3, 4, 5 ve 6. sorulardaki tablolar verilen sayılar bir kez kullanılarak her satır, her sütun ve her köşegen toplamı eşit olacak şekilde dolduruluyor. Bu sorularda "?" yerine gelecek olan sayıyı bulunuz?

3. 37, 38, 40, 41, 43, 44, 45

	39	
		?
42		

A) 45 B) 44 C) 43 D) 38 E) 37

4. 4, 5, 6, 7, 8, 11, 12

	?	
10		
9		

A) 4 B) 6 C) 7 D) 11 E) 12

5. 53, 54, 56, 57, 59, 60, 61

	55	
?		
		58

A) 60 B) 61 C) 59 D) 56 E) 53

6. 22, 25, 26, 27, 28, 29, 30

		23
?		
	24	

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

7, 8, ve 9.sorulardaki tabloları verilen sayıları kullanarak her satır, her sütun ve her köşegen toplamı eşit olacak şekilde dolduruyor "?" yerine gelecek sayıyı bulunuz.

10, 11, ve 12.sorularda verilen tabloları ; her satır, her sütun ve her köşegen toplamı eşit olacak şekilde doldurarak "?" yerine gelecek sayıyı bulunuz.

7. 19, 20, 21, 22, 23, 24, 27

?		26
	25	

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

8. 23, 25, 27, 28, 29, 30, 31

		?
24		26

A) 23 B) 25 C) 27 D) 28 E) 29

9. 34, 37, 38, 39, 40, 41, 42

35		
		36
	?	

A) 40 B) 39 C) 38 D) 37 E) 34

10.

20		16
	?	
18	19	

A) 15 B) 17 C) 21 D) 22 E) 23

11.

29		25
30		
	?	27

A) 33 B) 32 C) 31 D) 28 E) 26

12.

46		x
	y	49
50		48

$y - x = ?$

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

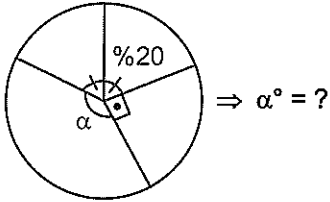
BÖLÜM 8

CHAPTER 8

GRAFİKLER

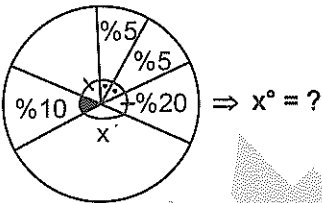
(GRAPHS)

1.



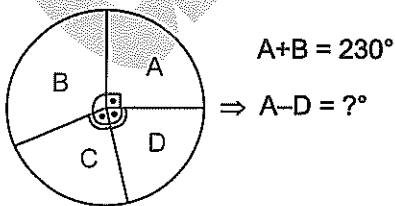
- A) 136° B) 126° C) 116° D) 106° E) 96°

2.



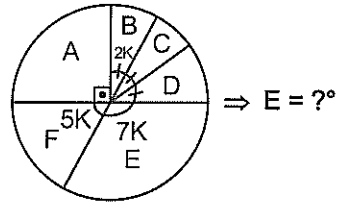
- A) 154° B) 144° C) 134° D) 108° E) 72°

3.



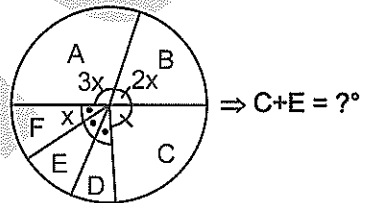
- A) 130° B) 65° C) 35° D) 25° E) 15°

4.



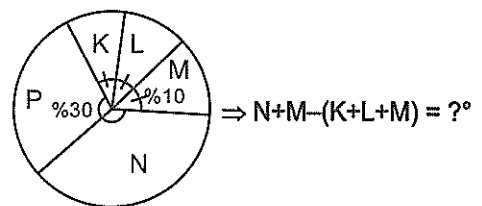
- A) 85° B) 95° C) 105° D) 115° E) 135°

5.



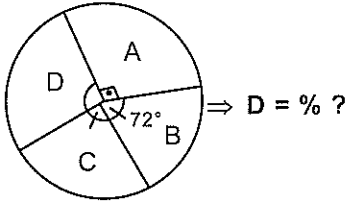
- A) 54° B) 72° C) 90° D) 108° E) 126°

6.



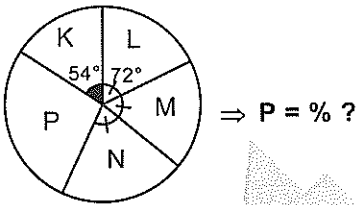
- A) 144° B) 126° C) 108° D) 90° E) 72°

7.



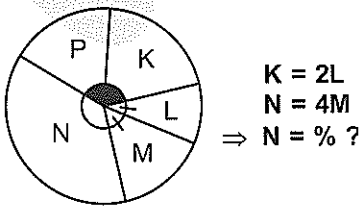
- A) 25 B) 30 C) 35 D) 40 E) 45

8.



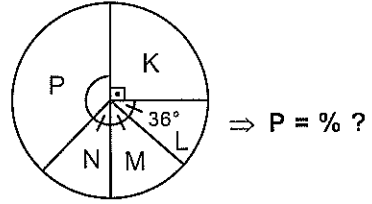
- A) 15 B) 20 C) 25 D) 30 E) 33

9.



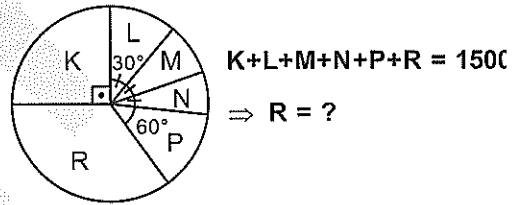
- A) 45 B) 40 C) 35 D) 30 E) 25

10.



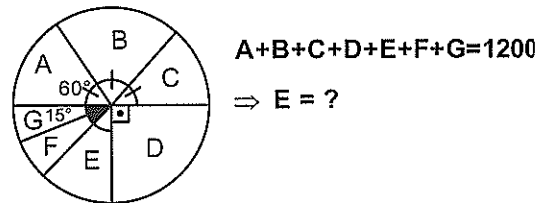
- A) 65 B) 60 C) 55 D) 50 E) 45

11.



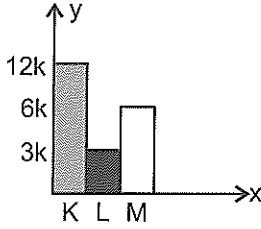
- A) 800 B) 700 C) 600 D) 500 E) 400

12.



- A) 200 B) 250 C) 300 D) 350 E) 400

1.

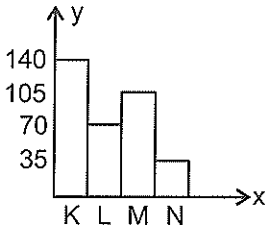


$$K+L+M = 112$$

$$\Rightarrow L = ?$$

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

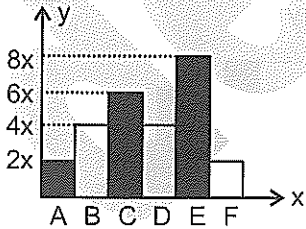
2.



$$\Rightarrow N = \% ?$$

- A) 5 B) 10 C) 15 D) 20 E) 25

3.

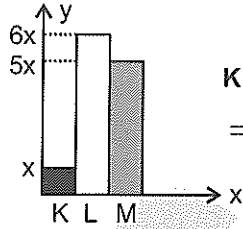


$$\Rightarrow A+B+C+D+E+F = 1300$$

$$C+D = ?$$

- A) 100 B) 200 C) 300 D) 400 E) 500

4.

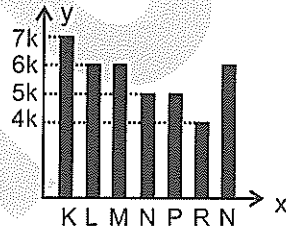


$$K+L+M = 1080$$

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

- A) 800 B) 900 C) 1000 D) 1010 E) 1020

5.

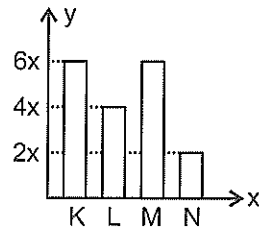


$$K+L+M+N+P+R+N = 780$$

$$\Rightarrow K-R+N = ?$$

- A) 160 B) 180 C) 200 D) 220 E) 240

6.

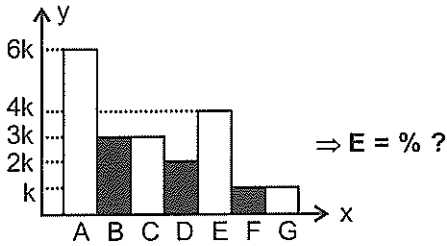


$$K+L+M+N = 720$$

$$\Rightarrow (K+L) - (M+N) = ?$$

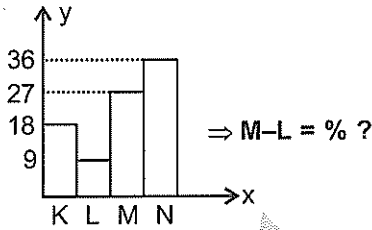
- A) 40 B) 60 C) 80 D) 100 E) 120

7.



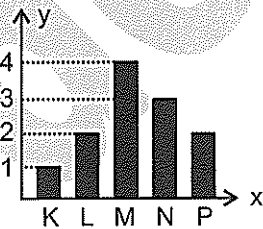
- A) 5 B) 10 C) 15 D) 20 E) 25

8.



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

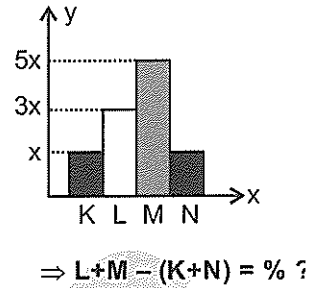
9.



$K+L+M+N+P = 720$
 $\Rightarrow (K+L+M) - (P+N) = ?$

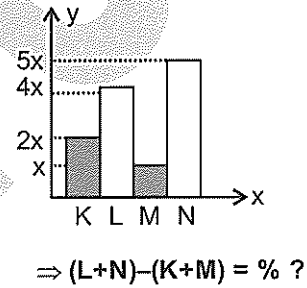
- A) 20 B) 60 C) 120 D) 240 E) 480

10.



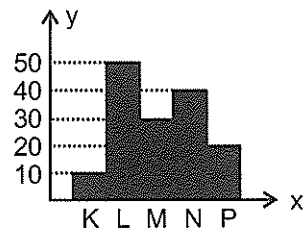
- A) 20 B) 40 C) 60 D) 80 E) 100

11.



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

12.

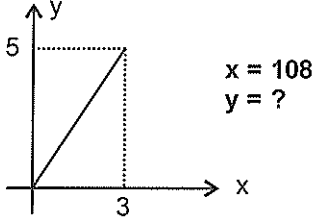


$K+L+M+N+P = 12$
 $\Rightarrow L^2 = ?$

- A) 4 B) 9 C) 16 D) 25 E) 36

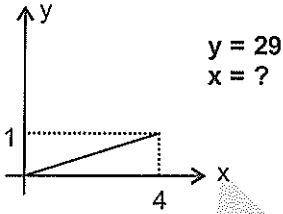
E	B	E	B	B	C	D	B	C	C	E	C
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1.



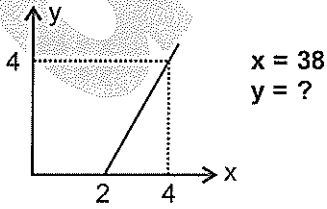
- A) 36 B) 72 C) 140 D) 160 E) 180

2.



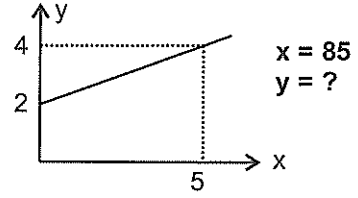
- A) 106 B) 116 C) 126 D) 136 E) 146

3.



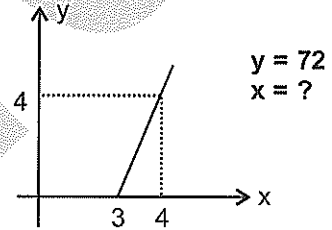
- A) 78 B) 72 C) 70 D) 68 E) 64

4.



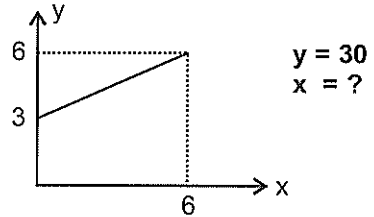
- A) 34 B) 35 C) 36 D) 37 E) 38

5.



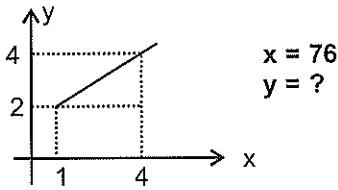
- A) 18 B) 19 C) 20 D) 21 E) 22

6.



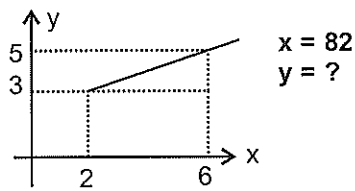
- A) 54 B) 57 C) 60 D) 63 E) 66

7.



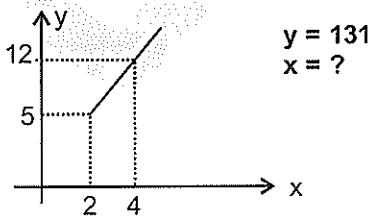
- A) 48 B) 49 C) 50 D) 51 E) 52

8.



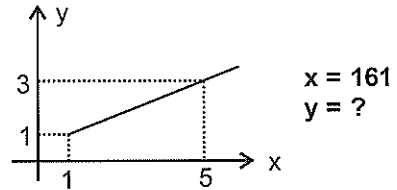
- A) 38 B) 39 C) 41 D) 43 E) 45

9.



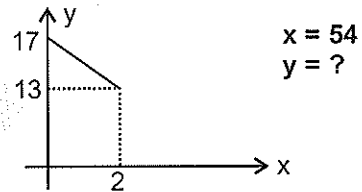
- A) 39 B) 38 C) 37 D) 36 E) 34

10.



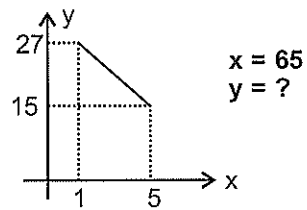
- A) 78 B) 79 C) 80 D) 81 E) 82

11.



- A) -108 B) -104 C) -101 D) -96 E) -91

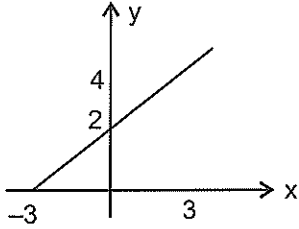
12.



- A) -180 B) -175 C) -170 D) -165 E) -160

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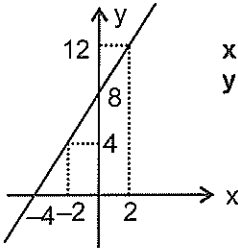
1.



$x=81$
 $y=?$

- A) 54 B) 55 C) 56 D) 57 E) 58

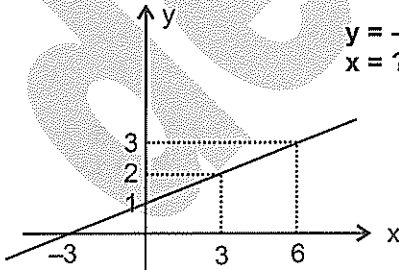
2.



$x = -24$
 $y = ?$

- A) -48 B) -44 C) -40 D) -36 E) -32

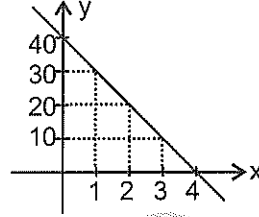
3.



$y = -20$
 $x = ?$

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

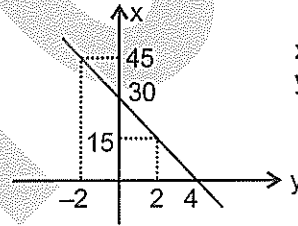
4.



$y = 240$
 $x = ?$

- A) -28 B) -24 C) -20 D) -16 E) -12

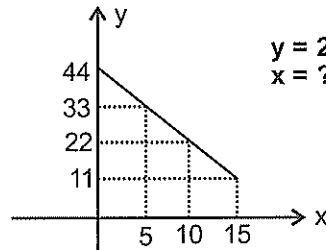
5.



$x = 26$
 $y = ?$

- A) -180 B) -165 C) -150 D) -135 E) -120

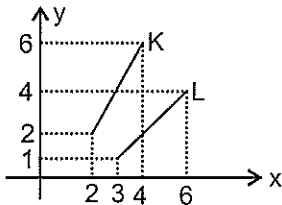
6.



$y = 253$
 $x = ?$

- A) -95 B) -100 C) -105 D) -110 E) -115

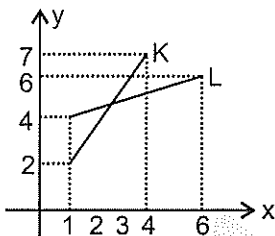
7.



$$\left. \begin{array}{l} x=36 \Rightarrow Ky = A \\ x=63 \Rightarrow Ly = B \end{array} \right\} \Rightarrow A+B = ?$$

- A) 121 B) 125 C) 137 D) 131 E) 157

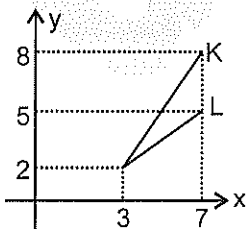
8.



$$\left. \begin{array}{l} x=34 \Rightarrow Ky = A \\ x=51 \Rightarrow Ly = B \end{array} \right\} \Rightarrow A-B = ?$$

- A) 81 B) 71 C) 61 D) 43 E) 33

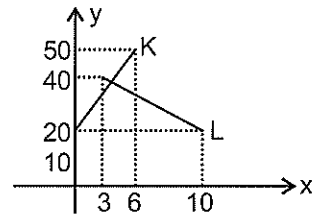
9.



$$x = 71 \Rightarrow Ky - Ly = ?$$

- A) 104 B) 96 C) 53 D) 51 E) 48

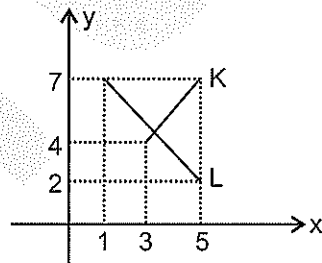
10.



$$\left. \begin{array}{l} y=260 \Rightarrow Kx = A \\ x=38 \Rightarrow Ly = B \end{array} \right\} \Rightarrow A-B = ?$$

- A) -60 B) -12 C) 12 D) 48 E) 108

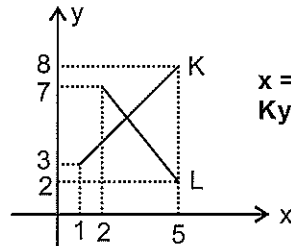
11.



$$\left. \begin{array}{l} y=34 \Rightarrow Kx = A \\ x=21 \Rightarrow Ly = B \end{array} \right\} \Rightarrow A+B = ?$$

- A) 41 B) 23 C) 5 D) -5 E) -41

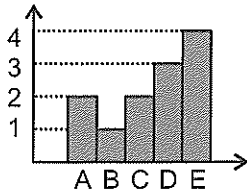
12.



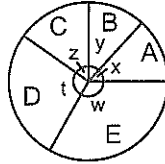
$$x = 65 \Rightarrow Ky + Ly = ?$$

- A) -25 B) -20 C) -15 D) -10 E) -5

1.

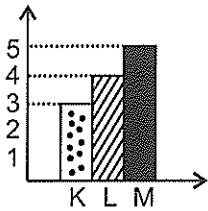


$w+y = ?$

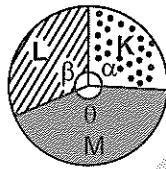


- A) 105° B) 120° C) 135° D) 150° E) 180°

2.

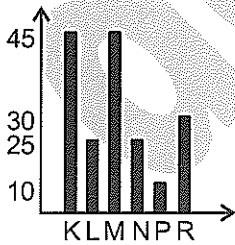


$\alpha + \beta - \theta = ?$

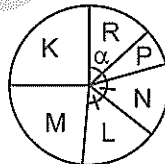


- A) 30° B) 60° C) 90° D) 120° E) 150°

3.

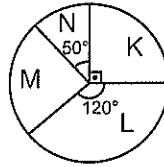


$\alpha = ?^\circ$

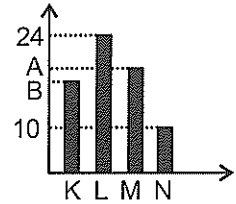


- A) 20° B) 30° C) 40° D) 50° E) 60°

4.

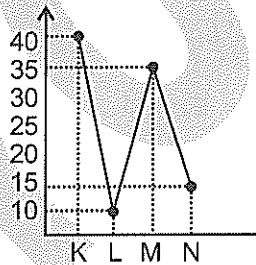


$A-B = ?$

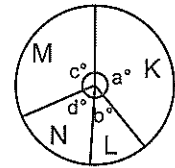


- A) 1 B) 2 C) 3 D) 4 E) 5

5.

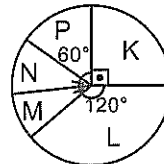


$a = ?, b = ?, c = ?, d = ?$



	a°	b°	c°	d°
A)	144°	54°	126°	36°
B)	126°	36°	144°	34°
C)	126°	54°	144°	36°
D)	108°	54°	144°	72°
E)	144°	36°	126°	54°

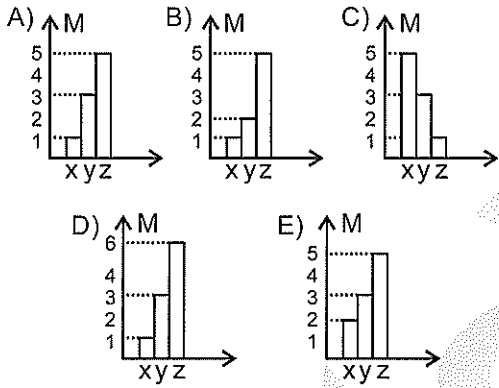
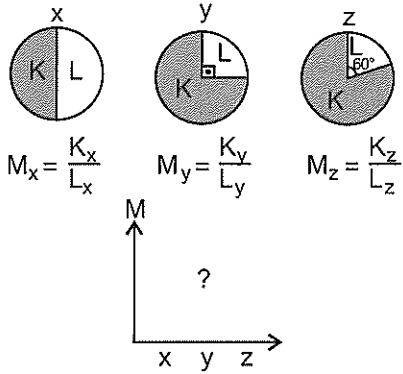
6.



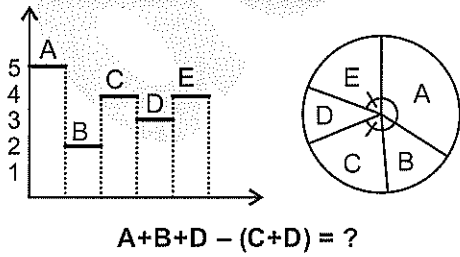
$K:L:M:N:P = ?$

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

7.

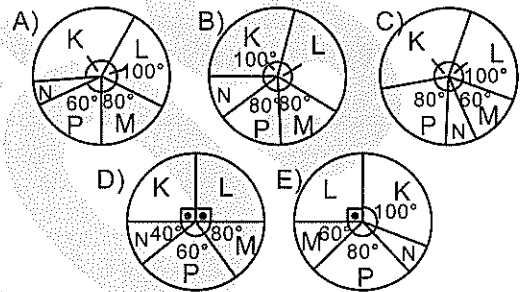
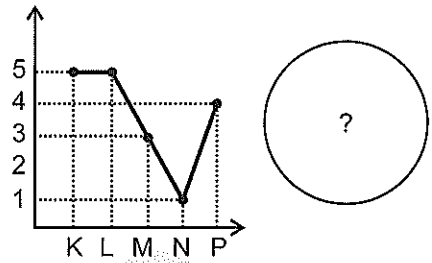


8.

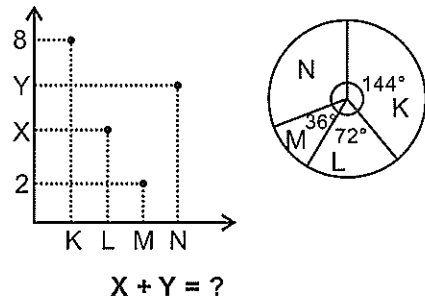


- A) 20° B) 40° C) 60° D) 80° E) 100°

9.



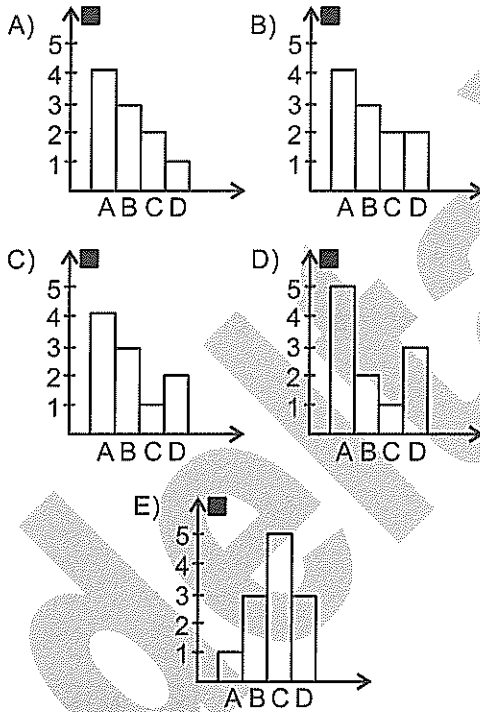
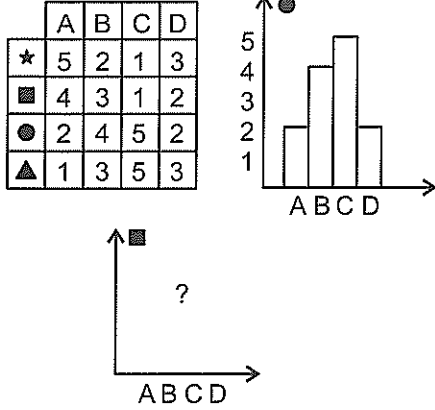
10.



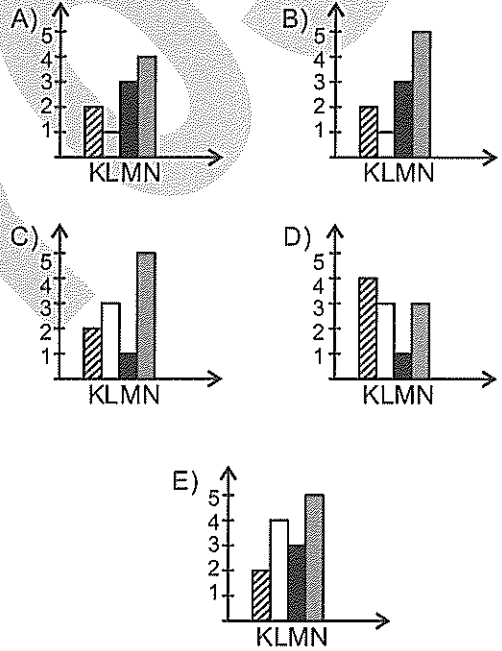
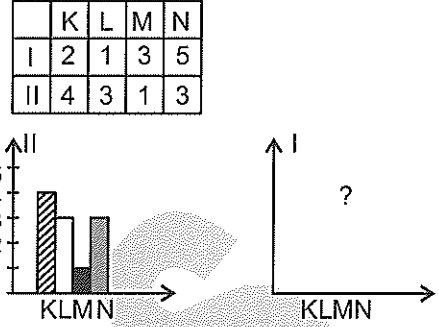
- A) 4 B) 6 C) 8 D) 10 E) 12

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

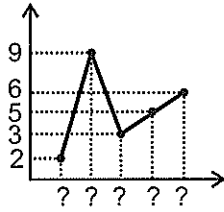


2.



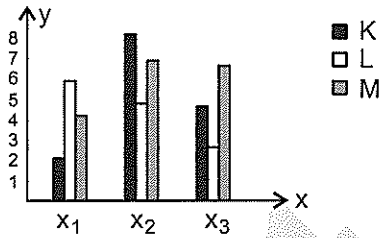
3.

A	63
B	14
C	42
D	35
E	21



- A) $\overline{B A E C D}$ B) $\overline{B E A D C}$
 C) $\overline{A B C D E}$ D) $\overline{A B D E C}$
 E) $\overline{B A E D C}$

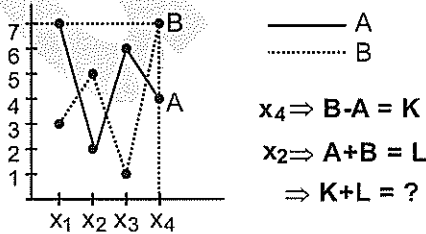
4.



$x_1M + x_2K + x_3L = ?$

- A) 14 B) 15 C) 16 D) 18 E) 19

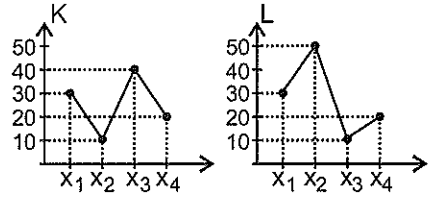
5.



$x_4 \Rightarrow B - A = K$
 $x_2 \Rightarrow A + B = L$
 $\Rightarrow K + L = ?$

- A) 3 B) 4 C) 7 D) 10 E) 12

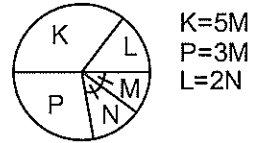
6.



$Kx_1 + 2Lx_2 + 3Lx_3 + 4Kx_4 = ?$

- A) 230 B) 240 C) 250 D) 260 E) 330

7.

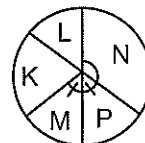


$K = 5M$
 $P = 3M$
 $L = 2N$

$K - P - N = ?$

- A) 20° B) 30° C) 40° D) 50° E) 60°

8.



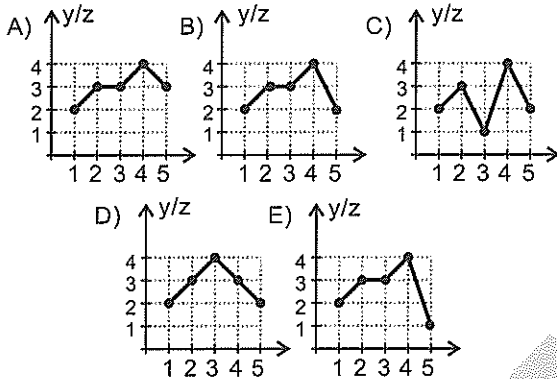
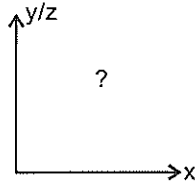
K	L	M	N	P
3	2	4	5	4

$(M + N + P) - (K + L) = ?$

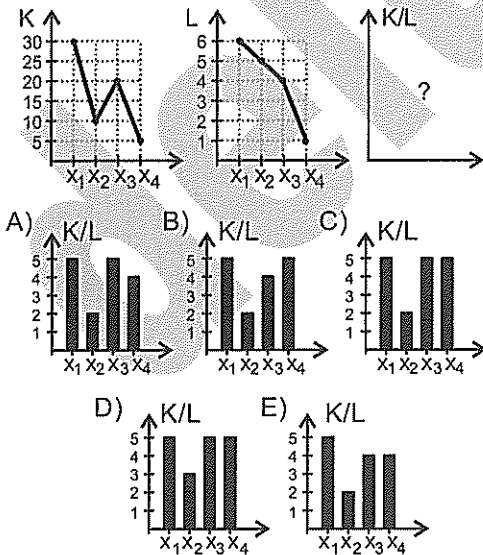
- A) 100° B) 120° C) 140° D) 160° E) 180°

1.

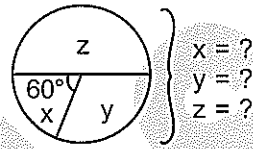
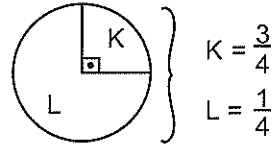
x	y	z
1	4	2
2	6	2
3	3	1
4	12	3
5	6	3



2.

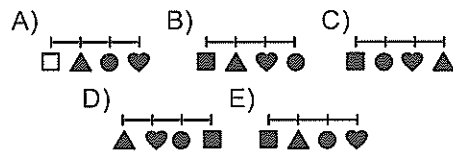
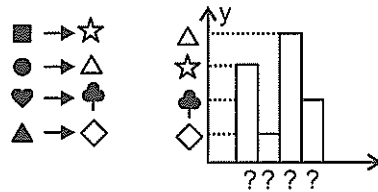


3.

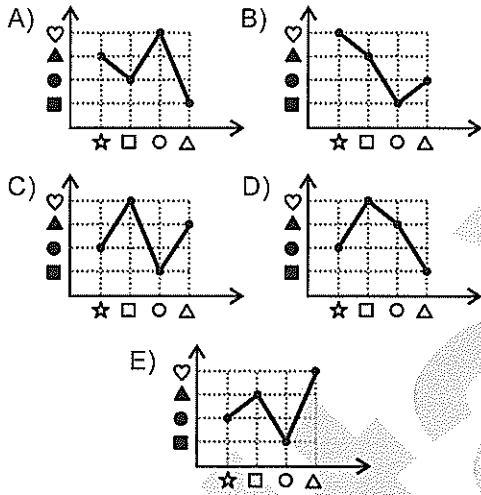
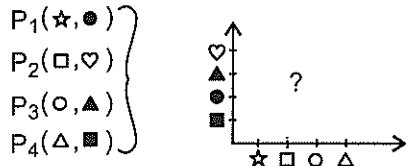
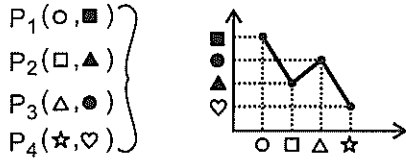


	x	y	z
A)	1/5	2/5	3/5
B)	1/6	1/3	1/2
C)	1/6	1/3	1/4
D)	1/3	1/4	1/2
E)	1/3	1/4	1/3

4.

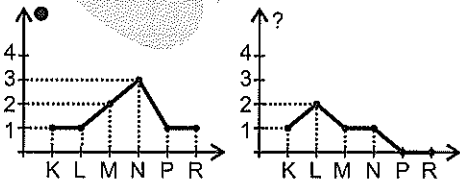


5.



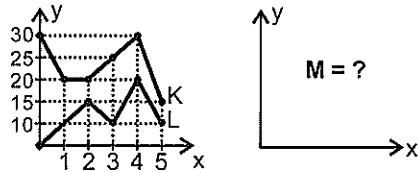
6.

K	L	M	N	P	R
■	△	■	●	■	+
●	+	●	●	■	★
★	●	△	●	★	■
+	△	+	+	★	■
△	■	●	△	●	●

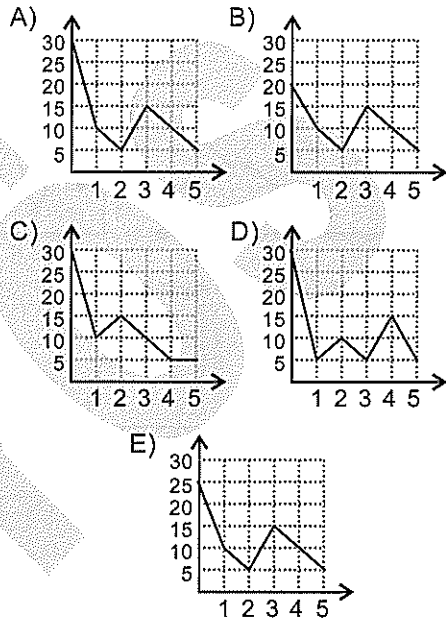


A) ■ B) ● C) + D) △ E) ★

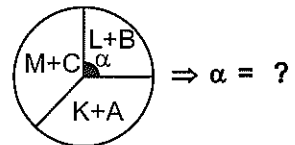
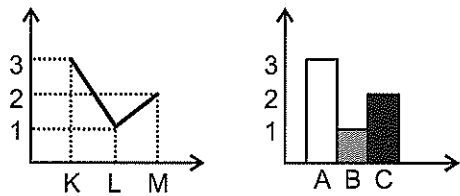
7.



$\Rightarrow K - L = M$

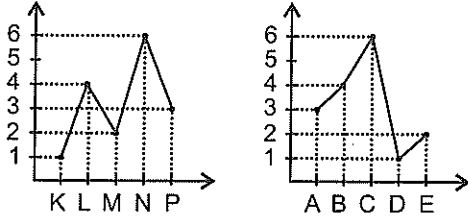


8.



A) 30° B) 45° C) 60° D) 90° E) 120°

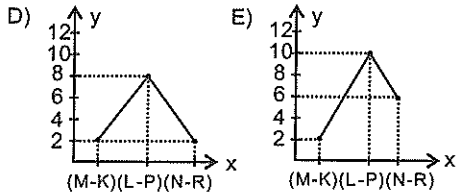
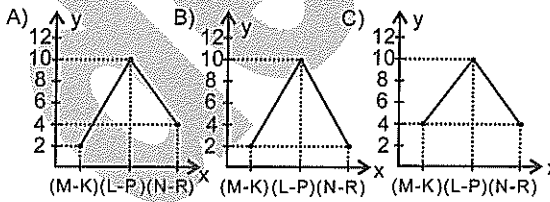
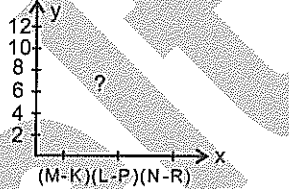
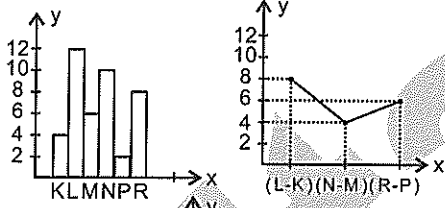
1.



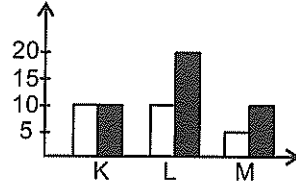
$K=D \Rightarrow M=?$

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

2.



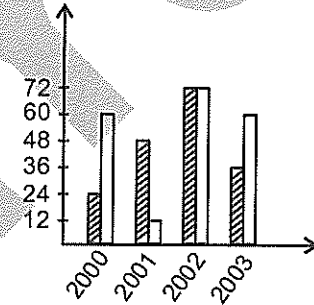
3.



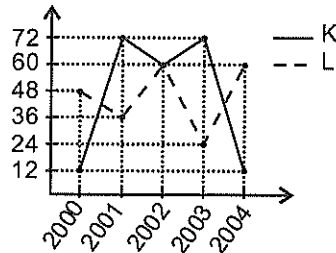
$x_K + x_L + x_M = \%100 \Rightarrow x_K, y_L = \%?$
 $y_K + y_L + y_M = \%100$

- A) 50,40 B) 40,50 C) 10,20
D) 25,20 E) 20,25

4.

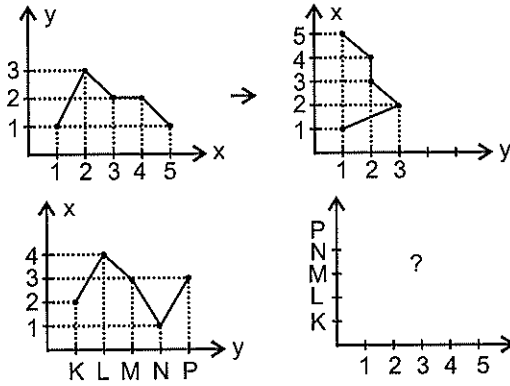


- 2000 : K<L
2001 : K>L
2002 : K=L
2003 : K<L



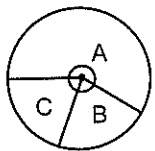
- | | 2000 | 2001 | 2002 | 2003 | 2004 |
|----|------|------|------|------|------|
| A) | K<L | K>L | K=L | K<L | K>L |
| B) | K<L | K>L | K<L | K>L | K<L |
| C) | K<L | K=L | K>L | K>L | K<L |
| D) | K<L | K>L | K=L | K>L | K<L |
| E) | K<L | K>L | K=L | K=L | K<L |

5.



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

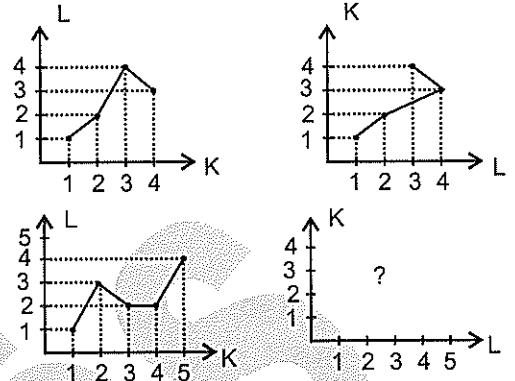
6.



$A = 2B$
 $3B = 4C$
 $C = \% ?$

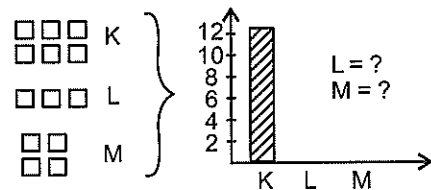
- A) 10 B) 20 C) 30 D) 40 E) 50

7.



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

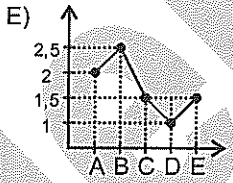
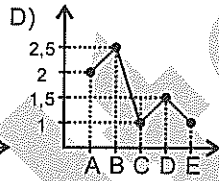
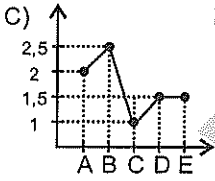
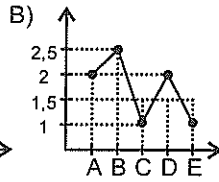
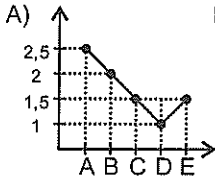
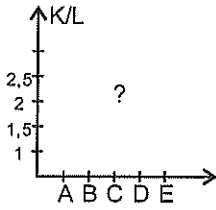
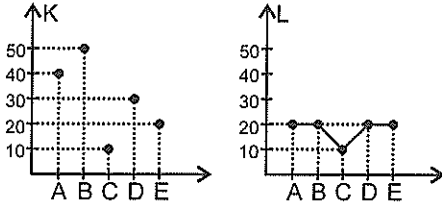
8.



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

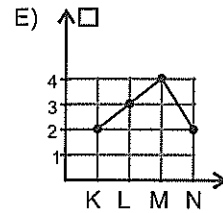
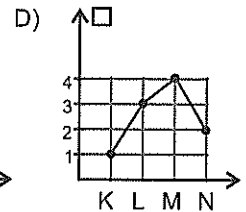
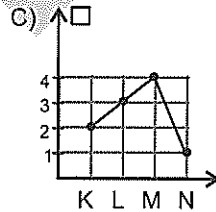
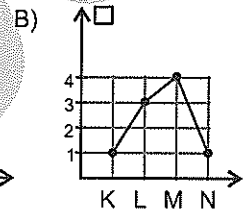
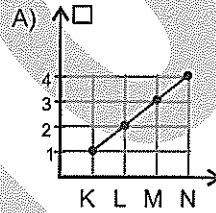
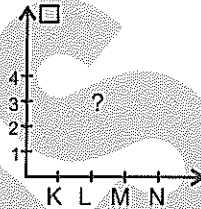
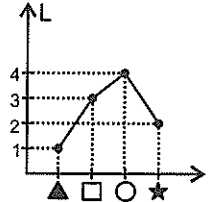
A	B	B	D	C	B	E	C
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1.

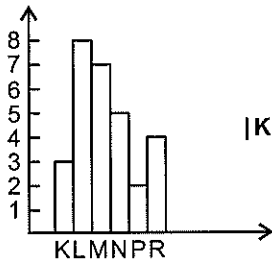


2.

	K	L	M	N
▲	4	1	2	3
○	3	4	2	4
★	2	2	1	2
□	2	3	4	1



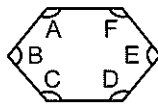
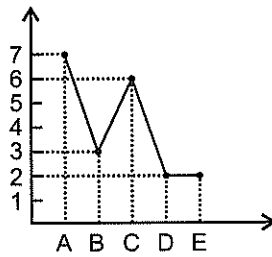
3.



$L + M = 780$
 $|K - L + M - N + P - R| = ?$

- A) 50 B) 60 C) 100 D) 200 E) 260

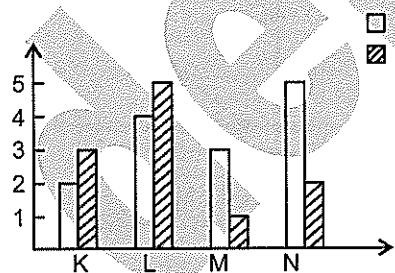
4.



$B = ?^\circ$

- A) 54° B) 108° C) 120° D) 240° E) 256°

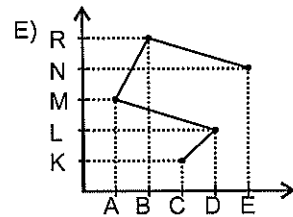
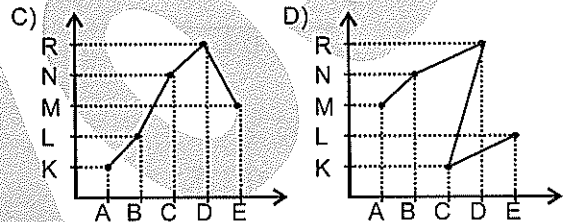
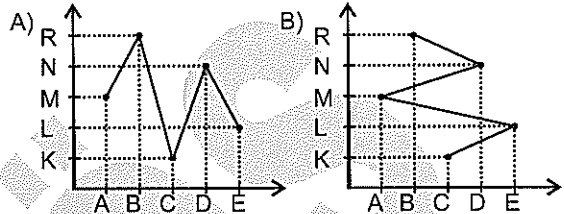
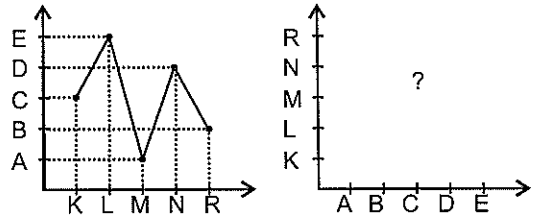
5.



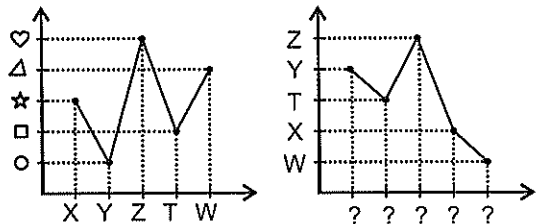
$Kx + Lx + Mx + Nx = 280$
 $Ky + Ly + My + Ny = 440$
 $Kx + Ly + Mx + Ny = ?$

- A) 320 B) 340 C) 360 D) 380 E) 400

6.



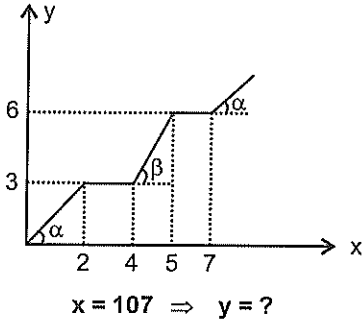
7.



- A) $\square \square \star \heartsuit \triangle$ B) $\square \square \heartsuit \triangle \star$
 C) $\square \square \heartsuit \star \triangle$ D) $\square \square \heartsuit \star \triangle$

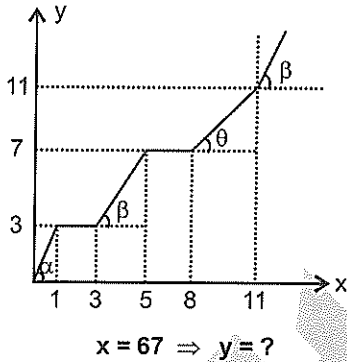
D	C	E	B	D	B	C
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1.



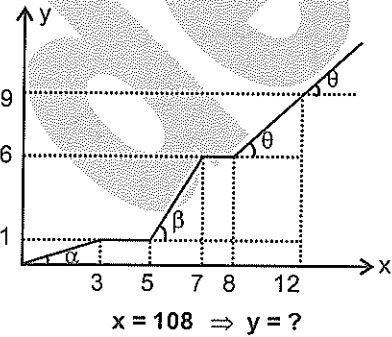
- A) 150 B) 152 C) 153 D) 155 E) 156

2.



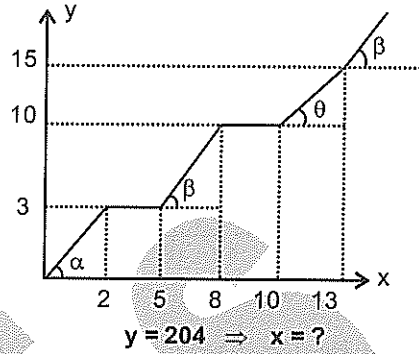
- A) 112 B) 114 C) 117 D) 121 E) 123

3.



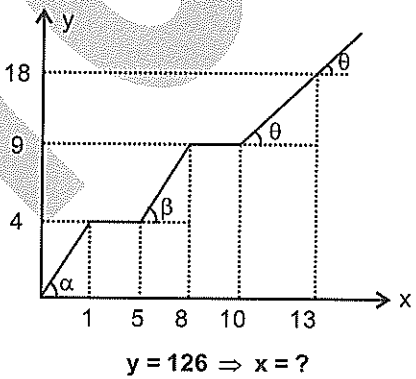
- A) 81 B) 79 C) 77 D) 73 E) 72

4.



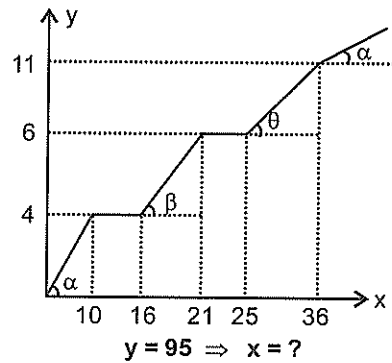
- A) 81 B) 85 C) 94 D) 99 E) 117

5.



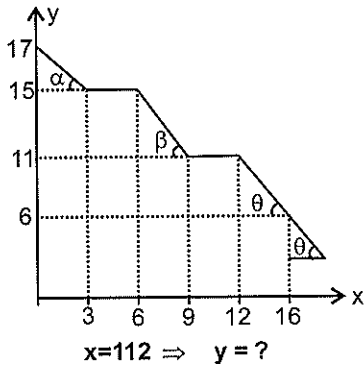
- A) 32 B) 36 C) 40 D) 46 E) 49

6.



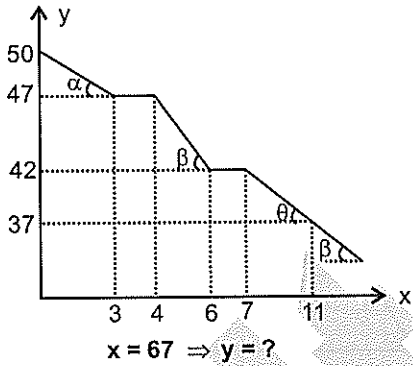
- A) 210 B) 246 C) 236 D) 220 E) 226

7.



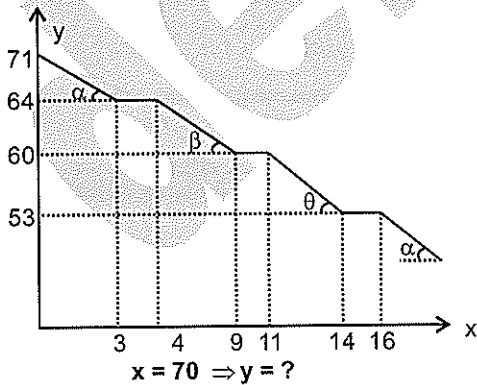
- A) -120 B) -118 C) -116 D) -114 E) -112

8.



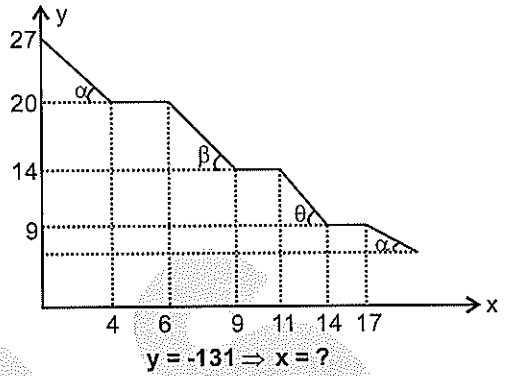
- A) -108 B) -113 C) -103 D) -140 E) -177

9.



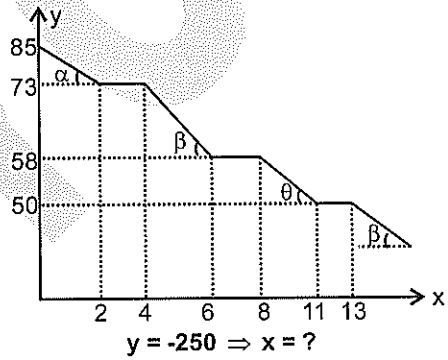
- A) -73 B) -83 C) -96 D) -116 E) -126

10.



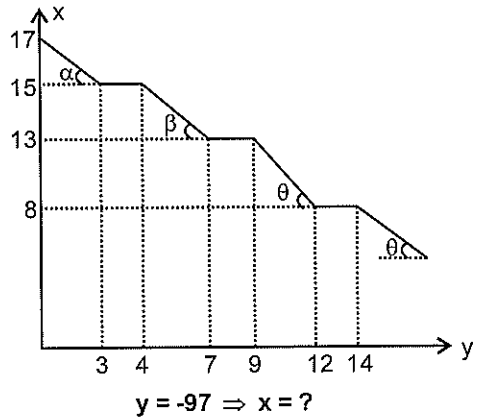
- A) 80 B) 87 C) 90 D) 97 E) 107

11.



- A) 40 B) 43 C) 49 D) 50 E) 53

12.



- A) 63 B) 77 C) 83 D) 97 E) 103

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