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

In questions 1 - 7, each letter, number and figure in step I is shown by a different letter, number and figure in step II or the choices. Accordingly, find the letters, digits or figures indicated by the question mark.

1. I. SEL
KAS
SAT
PIL
ICT
- II. 490
751
394
580
421
- ⇒ CET = ?
- A) 082 B) 280 C) 208
D) 028 E) 820

2. I.   
  
  
  
  
- II. TIP
LIP
MIP
TMP
LTP
- ⇒ TMP = ?
- A)    B)    C)   
D)    E)   

3. I. BENİ
SİMA
EMİR
MİAS
İNEM
- II. 6372
7326
3817
1735
4183
- ⇒ EMİR = ?
- A) 6372 B) 7326 C) 3817
D) 1735 E) 4183

4. I. 38760
09387
23542
93548
76025
- II. TCFNS
MTULM
FN SMU
BTULC
SBTCF
- ⇒ 38286 = ?
- A) TCMCN B) MTLTN C) LTFTM
D) BTULC E) NSTSF

5.

#	w	z	x	Σ
\$	k	■	●	#
w	⊠	⊞	✂	a
k	∪	8	∞	m
✂	S	P	t	z

= ?

- A)

w	#	S	⊠	✂
k	⊞	●	■	w
#	8	✂	Σ	a
⊞	∞	P	∪	x
a	z	m	\$	S
- B)

w	#	S	⊠	✂
k	⊞	●	■	w
#	8	✂	Σ	t
⊞	∞	P	∪	x
a	#	m	\$	S
- C)

w	#	S	⊠	✂
k	⊞	●	■	w
#	8	✂	k	t
⊞	∞	P	∪	x
a	z	m	\$	S
- D)

w	#	S	⊠	✂
k	⊞	●	■	w
#	8	✂	Σ	t
⊞	∞	P	∪	x
a	z	m	\$	S
- E)

w	#	S	⊠	✂
k	⊞	●	■	w
#	8	✂	Σ	t
⊞	∞	P	∪	x
a	z	m	●	S

6.

I.

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



II.

?

- A)

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

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

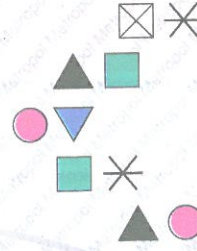
9	2	7	4
8	0	3	9
1	3	6	8
6	9	1	5
- D)

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

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

7.

I.



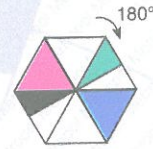
II.

50
79
10
37
35

$$\Rightarrow \triangle + \square = ?$$

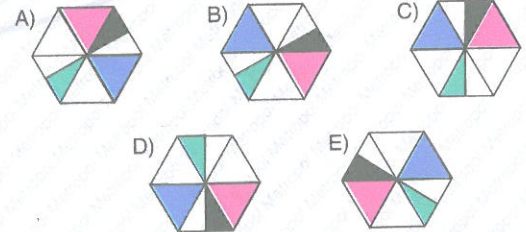
- A) 12 B) 11 C) 10 D) 9 E) 8

8.



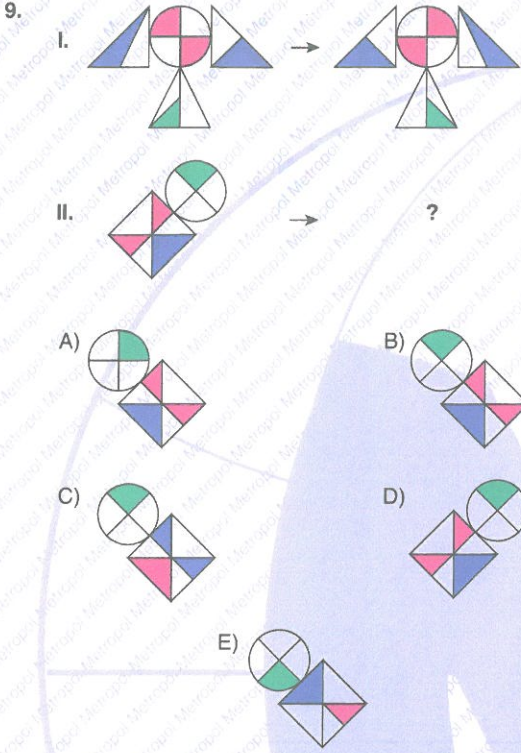
Yukarıdaki şekil saat yönünde 180° döndürülürse, aşağıdaki şekillerden hangisi oluşur?

When the given figure is rotated to clockwise which figure will be formed as below?

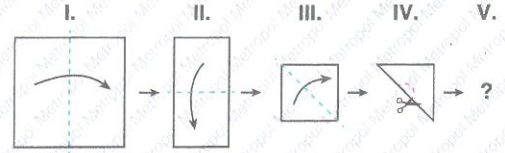


9. soruda I. satırda belirlenen ilişkiye göre II. satırı hangi şeklin tamamladığını bulunuz.

In question 9, in accordance with the relation in line I, find the figure which completes line II.



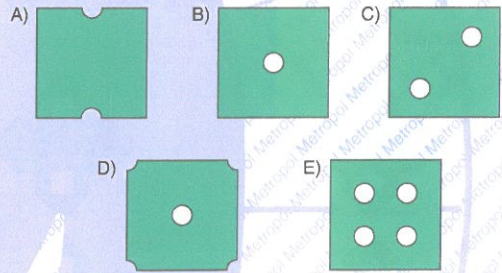
10.

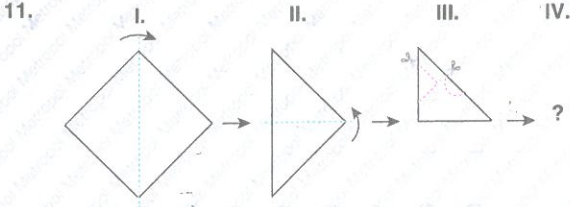


Yukarıdaki I. adımda verilen şekil, belirtilen eksenlerden adım adım katlanarak IV. adımdaki şekil elde ediliyor ve ardından işaretli bölgelerden kesiliyor. Buna göre, IV. adımdaki şekilde kesilen parçalar çıkartıldıktan sonra, şeklin konumu değiştirilmeden katlandığı eksenlerden açık hale getirilirse aşağıdaki şekillerden hangisi oluşur?

The given figure in step I is folded about the outlined axes step by step and forms the figure given in step IV. Afterwards, it is cut over the marked areas.

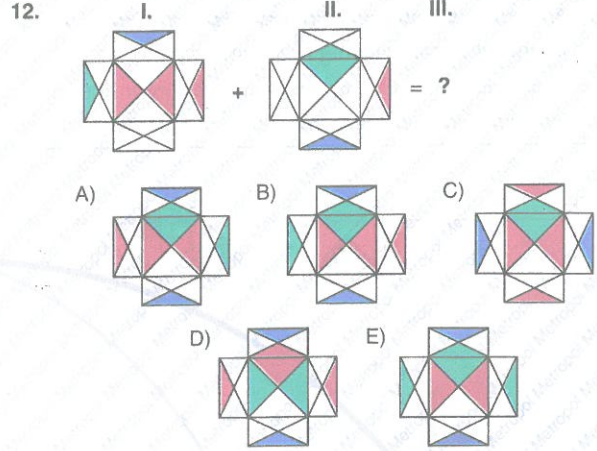
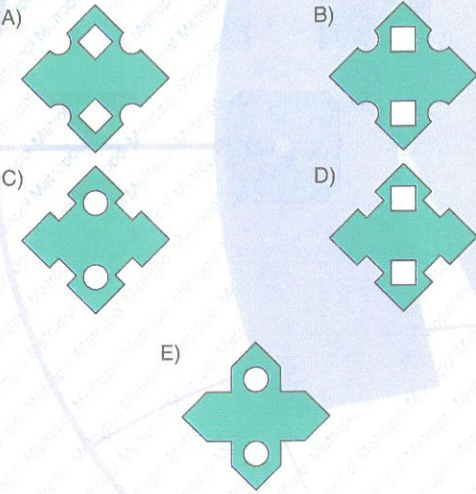
Accordingly, if the figure in step IV is unfolded without changing its position after taking out the cut pieces, which of the following figures is obtained?





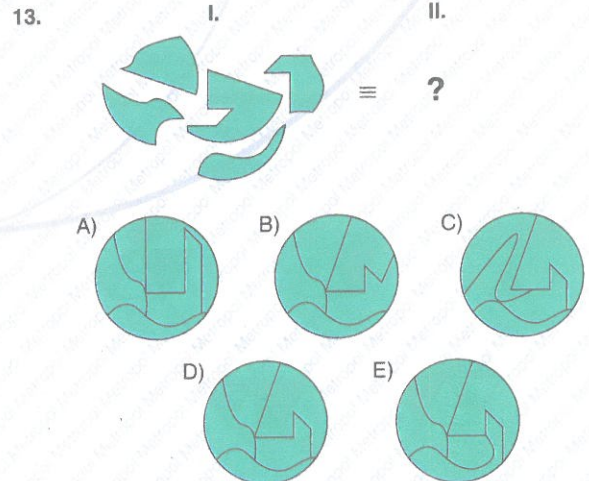
Yukarıdaki I. adımda verilen şekil, belirtilen eksenlerden adım adım katlanarak III. adımdaki şekil elde ediliyor ve ardından işaretli bölgelerden kesiliyor. Buna göre, III. adımdaki şekilde kesilen parçalar çıkartıldıktan sonra, şeklin konumu değiştirilmeden katlandığı eksenlerden açık hale getirilirse aşağıdaki şekillerden hangisi oluşur?

The given figure in step I is folded about the outlined axes step by step and forms the figure given in step III. Afterwards, it is cut over the marked areas. Accordingly, if the figure in step III is unfolded without changing its position about the folded axes, after taking out the cut pieces, which of the following figures is obtained?



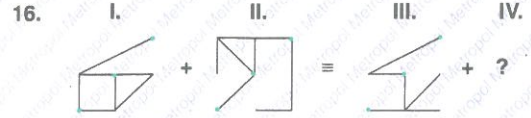
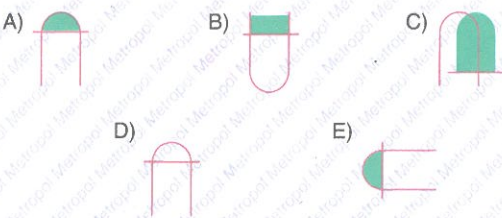
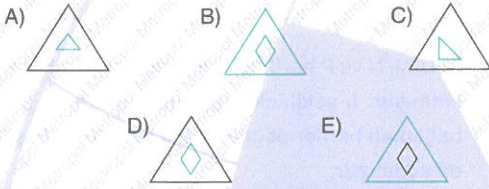
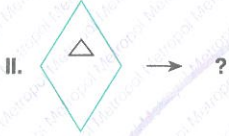
13. soruda I. adımda verilen şekil aralarında boşluk kalmayacak biçimde birleştirildiğinde oluşan şekli bulunuz.

Find the shape formed when the shapes given in step I in question 13 are combined so that there is no space between them.



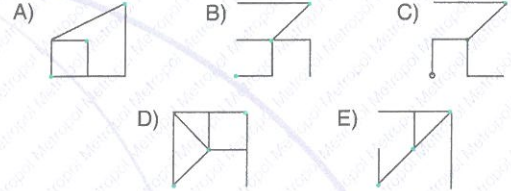
14 ve 15. sorularda I. satırda belirlenen ilişkiye göre II. satırı hangi şeklin tamamladığını bulunuz.

In questions 14 and 15, in accordance with the relation in line I, find the figure which completes line II.

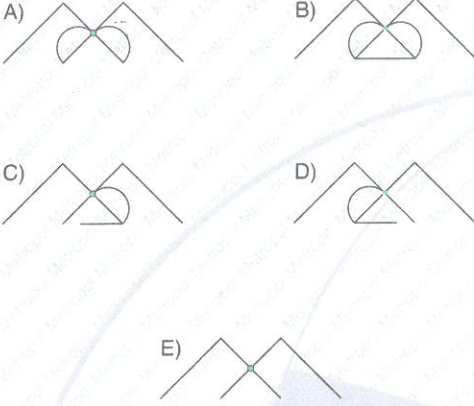


Yukarıdaki soruda soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

Find the figure that should be placed instead of the question mark in the given figure.



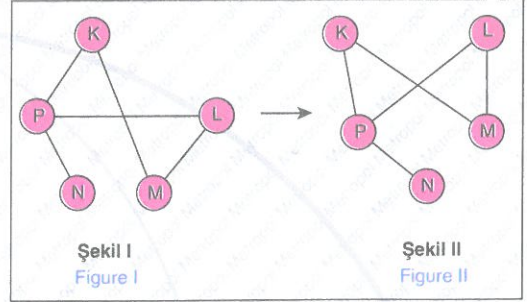
17. I. II. III.



18. soruyu aşağıdaki örnekte verilen ilişkiye göre cevaplayınız.

Answer question 18 in accordance with the relation given in the following example.

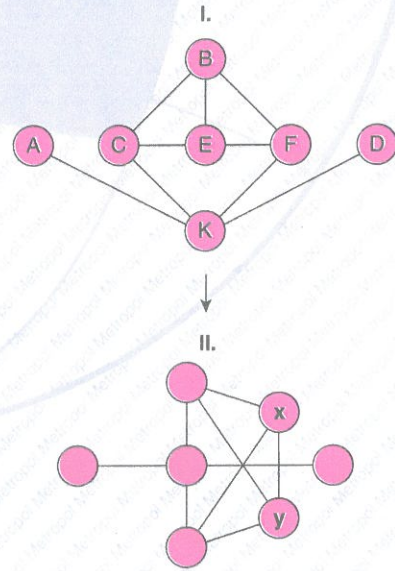
ÖRNEK / EXAMPLE:



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

The letters K, L, M, N and P in figure I are linked to each other. Without any change in the link number and the linked letters of figure I, figure II is obtained.

18.

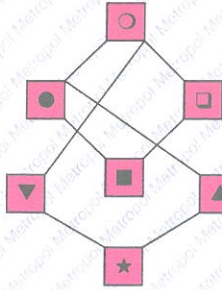


⇒ x = ? ; y = ?

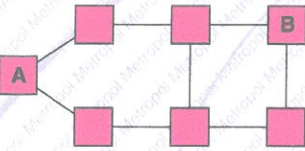
- A) A ; C B) B ; C C) C ; D
D) D ; E E) E ; B

19.

I.



II.



⇒ A = ? ; B = ?

- A) ★ ; ● B) ★ ; □ C) ★ ; ▲
D) ★ ; ○ E) ★ ; ▼

21. Aşağıdaki soruda farklı olan şekli bulunuz.

In the following question, find the different figure.

- A) A ● B ● C ▲ D
B) ● □ B ● C ▲ D A
C) B ● C ▲ D A ● □
D) D A ● B □ C ▲
E) ▲ D A ● □ B C

22.

I	1	K	2
II	L	3	2
III	1	1	M

⇒ K = ? ; L = ? ; M = ?

20. Aşağıdaki soruda farklı olan şekli bulunuz.

In the following question, find the different figure.

- A) B)
C) D)
E)

Yukarıdaki tabloda K, L ve M nin yerine hangi sayılar gelmelidir?

Which numbers do K, L and M stand for in the table above?

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

23.

Sonuç
(Result)Sonuç
(Result)

				K
L				

Yukarıdaki tabloda K ve L nin yerine hangi şekiller gelmelidir?
Which figures do K and L stand for in the table above?

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

24.

I.

1	2
2	1
3	3

II.

1		4
1	2	2
		5

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

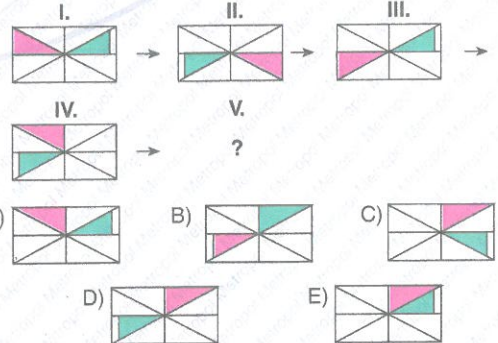
- A) 10 B) 12 C) 14 D) 15 E) 16

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25 - 27. sorularda, verilen her bir şekil dizisindeki soru işaretinin yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In questions 25 - 27 find the figure which should replace the question mark in each given figure sequence.

25.



26.

I.	●	▲	→	↑	○	■	U
II.	○	U	▲	■	●	↑	→
III.	U	○	▲	↑	●	■	→
IV.	?	?	?	?	?	?	?

- A)

▲	U	●	↑	■	○	→
---	---	---	---	---	---	---
- B)

▲	●	U	↑	■	○	→
---	---	---	---	---	---	---
- C)

▲	U	●	↑	○	→	■
---	---	---	---	---	---	---
- D)

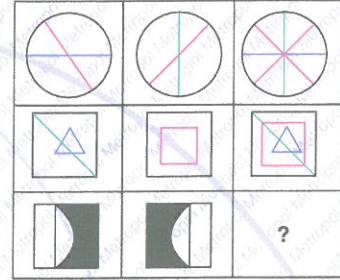
▲	↑	●	■	U	→	○
---	---	---	---	---	---	---
- E)

▲	↑	U	■	●	○	→
---	---	---	---	---	---	---

28. - 30. sorularda, verilen her bir şekil matrisindeki soru işaretinin yerine hangi şeklin getirilmesi gerektiğini bulunuz.

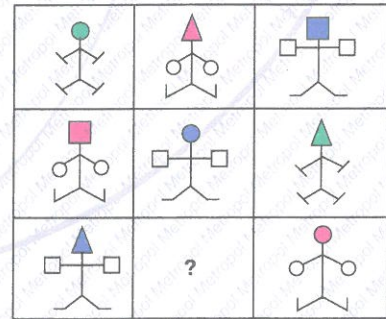
In questions 28 - 30, find the figure which should replace the question mark in each given figure matrix.

28.



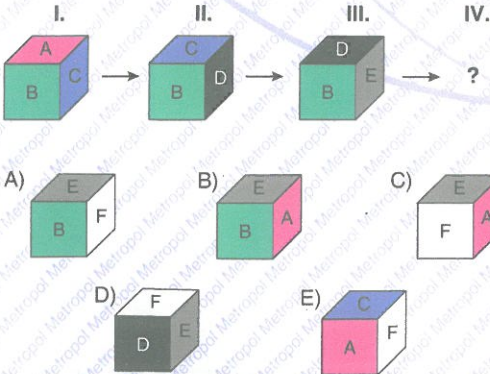
- A)
- B)
- C)
- D)
- E)

29.

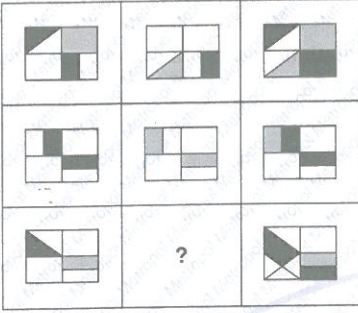


- A)
- B)
- C)
- D)
- E)

27.



30.

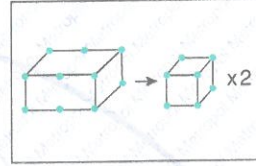


- A)
- B)
- C)
- D)
- E)

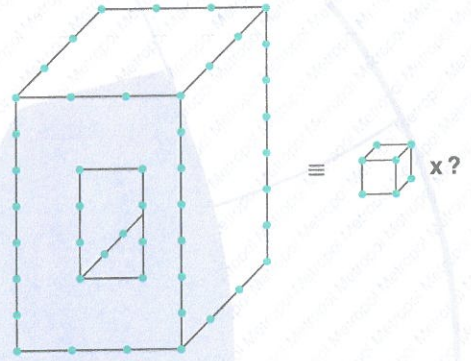
31. soruyu aşağıdaki örnekte verilen ilişkiye göre cevaplayınız.

Answer question 31, in accordance with the relation established in the example below.

ÖRNEK / EXAMPLE:



31.

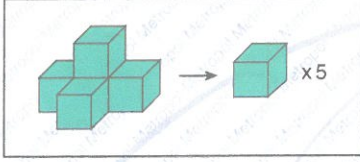


- A) 58 B) 57 C) 56 D) 55 E) 54

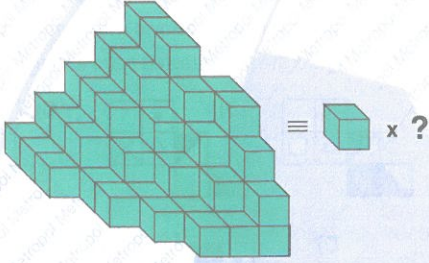
32. soruyu aşağıdaki örnekte verilen ilişkiye göre cevaplayınız.

Answer question 32, in accordance with the relation established in the example below.

ÖRNEK / EXAMPLE:



32.



A) 81

B) 100

C) 102

D) 104

E) 106

33.

I.

II.

III.

IV.

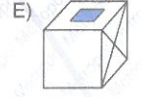
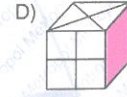
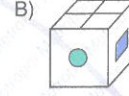
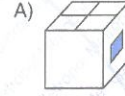
V.



= ?

Yukarıdaki şekillerin tümü aynı küpü göstermektedir. Aşağıdakilerden hangisi bu küpün başka bir açıdan görünümüdür?

The figures above represent the same cube. Which of the following another view of this cube?



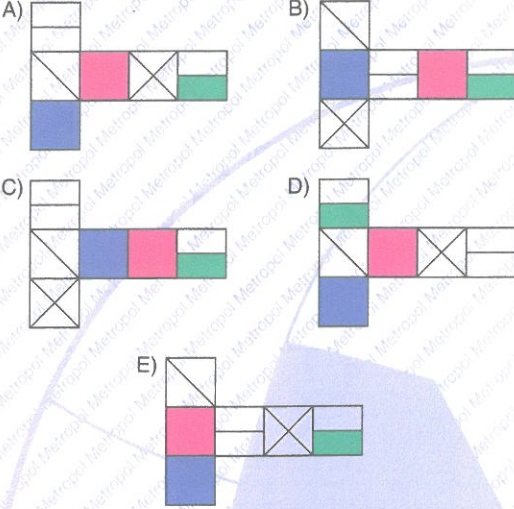
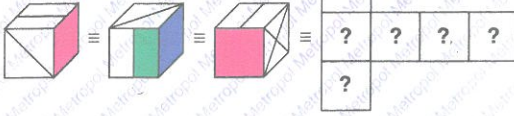
34.

I.

II.

III.

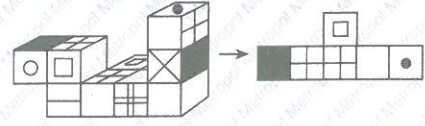
IV.



35.

I.

II.



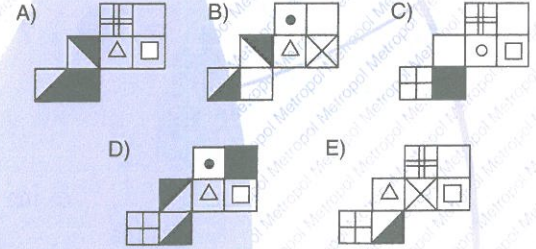
III.

IV.



I. şekildeki küplerin üstten görünümü II. şekildeki gibidir. Buna göre, III. şekildeki küplerin üstten görünümü aşağıdakilerden hangisidir?

The cubes in figure I are seen from above as in figure II. Which of the following shows the appearance of the cubes in figure III when viewed from above?



36. 4 6 12 14 28 30 A B

Yukarıda verilen sayı dizisine göre $A + B = ?$

With regard to the number sequence given above,
 $A + B = ?$

- A) 60 B) 62 C) 120 D) 122 E) 124

37. 20 24 40 56 92 ?

Yukarıda verilen sayı dizisinde soru işaretinin yerine getirilmesi gereken sayıyı bulunuz.

Find the number which the question mark stands for in the given number sequence.

- A) 170 B) 171 C) 173
D) 175 E) 178

38. $\frac{4}{3} \quad \frac{5}{3} \quad x \quad \frac{7}{3} \quad y \quad 3 \quad \frac{10}{3}$
 $\Rightarrow x : y = ?$

Yukarıda verilen sayı dizisinde x ve y yerine getirilmesi gereken sayıları bulunuz.

Find the numbers that need to be replaced by x and y in the number sequence given above.

- A) $\frac{6}{5} : 4$ B) $\frac{5}{6} : \frac{3}{4}$ C) $2 : \frac{8}{3}$
D) $\frac{3}{8} : \frac{3}{2}$ E) $\frac{3}{5} : 5$

39. 3 5 7 14 15 41 31 120 63

Yukarıdaki sayı dizisinde kurala uymayan bir sayı vardır. Bu sayıyı bulunuz.

In the number sequence above there is a number which is not following the rule. Find that number.

- A) 3 B) 14 C) 41 D) 120 E) 63

41. $a, b, c, d \in \mathbb{Z}$

$a \cdot b \cdot c \cdot d = 13 \Rightarrow (a + b + c + d) \neq ?$

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

44. $x, y \in \mathbb{R}^+$

$x + y = 12 \cdot x \cdot y \Rightarrow \max\left(\frac{1}{x \cdot y}\right) = ?$

- A) 9 B) 18 C) 24 D) 36 E) 72

42. $A + B = C$

$C - A = D \Rightarrow B = ?$

- A)
- $2A$
- B)
- $A - C$
- C)
- $\frac{A+D}{2}$
-
- D)
- $\frac{A-D}{2}$
- E)
- D

45. $AB \in \mathbb{N}$

$AB = 4 \cdot A + 3 \cdot B \Rightarrow \max(B - A) = ?$

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

43. $a \cdot b \cdot c$ tek sayı olduğuna göre aşağıdakilerden hangisi kesinlikle tek sayıdır?

If $a \cdot b \cdot c$ is odd number, which of the following is definitely odd number?

- A)
- $a + b$
- B)
- $a + c$
- C)
- $a \cdot b + 1$
-
- D)
- $a + b + c$
- E)
- $a \cdot b + b \cdot c$

46. $A, B, C \in \mathbb{N}$,

$\frac{A}{5} \mid \frac{B}{2} \quad \frac{B}{4} \mid \frac{C}{5} \Rightarrow \min(A) = ?$

- A) 63 B) 64 C) 65 D) 66 E) 67

47. $(ABCD), (KL) \in \mathbb{N}$

$$\begin{array}{r} \text{ABCD9} \overline{) 15} \\ \underline{\text{KL}} \end{array} \Rightarrow K+L=?$$

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

48. $\frac{ab-29}{cd-29} = \frac{cd}{ab}$

(ab) ve (cd) iki basamaklı doğal sayılar olduğuna göre kaç farklı (ab) yazılabilir?

As (ab) and (cd) are two-digit natural numbers, how many different (ab) can be written?

- A) 9 B) 10 C) 90 D) 100 E) 103

49. $1 + 3 + 5 + \dots + 25 = A$

$$2 + 4 + 6 + \dots + (2k) = \sqrt{A} \cdot (\sqrt{A} - 1)$$

$$\Rightarrow k = ?$$

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

50. $13 + 20 + 27 + \dots + k + (k + 7) = 100 + 5k$
 $\Rightarrow k = ?$

- A) 68 B) 69 C) 70 D) 76 E) 77

51. $\frac{6 \cdot 7! - 4 \cdot 5!}{2 \cdot 4!} = ?$

- A) 600 B) 620 C) 625 D) 640 E) 650

52. $48! = y$

$$49! = 7^x \Rightarrow y = ?$$

- A) 7^{x-2} B) 7^{x-1} C) 7^x D) 7^{x+1} E) 7^{x+2}

53. $x, y \in \mathbb{N}^+$,
 $A \in \mathbb{N}$,
 $\frac{10! + 11!}{2^x \cdot 3^y} = A \Rightarrow \max(x + y) = ?$

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

54. $\frac{1}{4} - \left(\frac{1}{2} + \frac{1}{4}\right) + \left(\frac{1}{2} - \frac{1}{3}\right) + \frac{1}{3} = ?$

A) $-\frac{3}{2}$ B) 1 C) $-\frac{1}{2}$ D) 0 E) 1

55. $3 + \frac{2}{1 - \frac{1}{3}} = ?$

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

56.



Yukarıdaki sayı doğrusunda -2 ile 2 arasında 12 eşit aralık vardır. Aşağıdakilerden hangisi $x \cdot y$ değerine eşittir?

On the number line above, there are twelve equal intervals between -2 and 2. Which of the following corresponds to $x \cdot y$?

- A) $-\frac{20}{9}$ B) $-\frac{2}{9}$ C) $\frac{20}{9}$ D) $\frac{2}{9}$ E) $\frac{4}{5}$

57. $x, y \in \mathbb{Z}$,

$$\frac{1}{2x - y + 3} + \frac{1}{x + y - 2} = 1 \Rightarrow y - x = ?$$

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

58. $\frac{0,1}{0,01} + \frac{0,05}{0,005} + \frac{0,004}{0,0004}$

İfadesinin sonucu aşağıdakilerden hangisidir?

Which of the following is the result of the given expression?

- A) 10 B) 20 C) 30 D) 100 E) 120

59. $x = 0,24\overline{2}$

$y = 0,24\overline{2}$

$z = 0,24\overline{2}$

$\Rightarrow ? < ? < ?$

A) $x < z < y$

B) $x < y < z$

C) $y < x < z$

D) $y < z < x$

E) $z < x < y$

62. $\left(\frac{1}{9}\right)^{-\frac{3}{2}} = A \Rightarrow A = ?$

A) $\sqrt[3]{3}$

B) 3

C) $3\sqrt{3}$

D) 9

E) 27

60. $\frac{18}{7}$ sayısının virgülden sonraki 75. basamağı kaçtır?

What is the 75th digit after the decimal point of the number $\frac{18}{7}$?

A) 1

B) 2

C) 4

D) 5

E) 7

63. $\left. \begin{array}{l} 2^x = 9 \\ 3^y = 16 \end{array} \right\} \Rightarrow x \cdot y = ?$

A) 6

B) 7

C) 8

D) 9

E) 10

61. $\left. \begin{array}{l} 2^x \cdot 3^y = 27 \\ 2^y \cdot 3^x = 8 \end{array} \right\} \Rightarrow x + y = ?$

A) $\frac{3}{2}$

B) 2

C) 3

D) 6

E) 9

64. $3^{x+1} = 5 \Rightarrow 25^{\frac{1}{x+1}} = ?$

A) 9

B) 15

C) 25

D) 27

E) 45

65. $(2x - 3)^{x-1} = 1$
eşitliğini sağlayan x değerlerinin toplamı nedir?
What is the sum of the x values satisfying equation?
- A) -2 B) 0 C) 1 D) 2 E) 3

68. $\frac{\sqrt{2,5} + \sqrt{3,6}}{\sqrt{16,9} - \sqrt{4,9}} = ?$
- A) $\frac{6}{11}$ B) $\frac{6,1}{12}$ C) $\frac{\sqrt{6,1}}{2\sqrt{3}}$ D) $\frac{11}{6}$ E) $\frac{12}{5}$

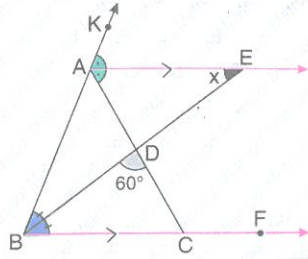
66. $3\sqrt{32} - \sqrt{27} + \sqrt{3} - \sqrt{2} = ?$
- A) $2\sqrt{2} - 11\sqrt{3}$ B) $2\sqrt{2} + \sqrt{3}$ C) $11\sqrt{2} - 2\sqrt{3}$
D) $11\sqrt{2} - \sqrt{3}$ E) $11\sqrt{2} + \sqrt{3}$

69. $\frac{\sqrt{9!} + \sqrt{8!}}{\sqrt{9!} - 8!}$
ifadesinin sonucu nedir?
What is the result of the given expression?
- A) $\frac{\sqrt{2}}{2}$ B) $\sqrt{2}$ C) 2 D) 4 E) 6

67. $a, b, c \in \mathbb{Z}$,
 $\sqrt{a-4} + \sqrt{b+2} = 0$
 $a + b + c = 5 \Rightarrow c = ?$
- A) -2 B) -1 C) 1 D) 2 E) 3

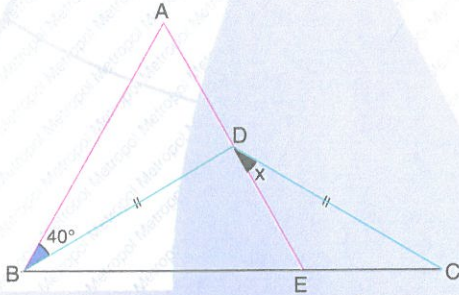
70. $(\sqrt{4+\sqrt{7}} - \sqrt{5+\sqrt{21}}) : \frac{1}{\sqrt{2}} - 1 = ?$
- A) $-3\sqrt{3}$ B) $-2\sqrt{3}$ C) $-\sqrt{3}$
D) $\sqrt{3}$ E) $2\sqrt{3}$

71. $[AE] \parallel [BF]$,
 $m(\widehat{KAE}) = m(\widehat{EAC})$
 $m(\widehat{ABE}) = m(\widehat{EBF})$
 $m(\widehat{BDC}) = 60^\circ$
 $\Rightarrow m(\widehat{AED}) = x = ?$



- A) 20° B) 25° C) 30° D) 35° E) 40°

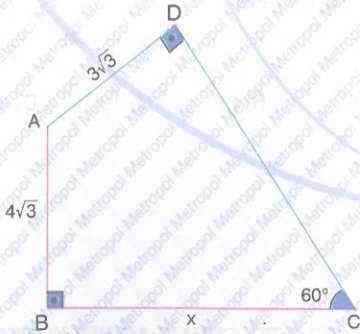
72.



- $|AB| = |AC|$, $|BD| = |CE|$
 $m(\widehat{ABD}) = 40^\circ \Rightarrow m(\widehat{CDE}) = x = ?$

- A) 35° B) 40° C) 45° D) 50° E) 55°

73.



- $[AB] \perp [BC]$, $[AD] \perp [DC]$
 $|AD| = 3\sqrt{3}$ cm, $|AB| = 4\sqrt{3}$ cm,
 $m(\widehat{DCB}) = 60^\circ \Rightarrow |BC| = x = ?$ cm

- A) 7 B) 8 C) 9 D) 10 E) 12

74. $\triangle ABC$ bir üçgen.

$\triangle ABC$ is a triangle

$[AB] \perp [BC]$,

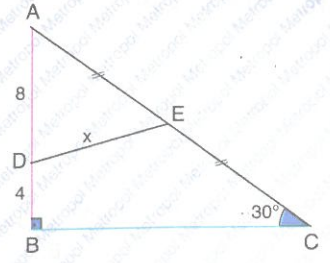
$m(\widehat{ACB}) = 30^\circ$,

$|AE| = |EC|$,

$|AD| = 8$ cm,

$|BD| = 4$ cm

$\Rightarrow |DE| = x = ?$ cm

A) $3\sqrt{3}$ B) $3\sqrt{5}$ C) $3\sqrt{7}$ D) $4\sqrt{7}$ E) $6\sqrt{6}$

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75. $\triangle ABC$ bir üçgen.

$\triangle ABC$ is a triangle

$|AB| = |AC|$,

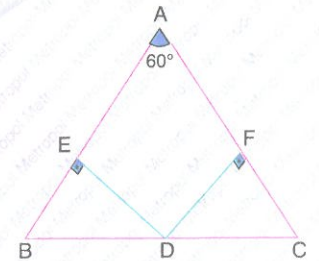
$[AB] \perp [DE]$,

$[AC] \perp [DF]$,

$|ED| + |DF| = 6$ cm,

$m(\widehat{BAC}) = 60^\circ$

$\Rightarrow |AB| = ?$ cm

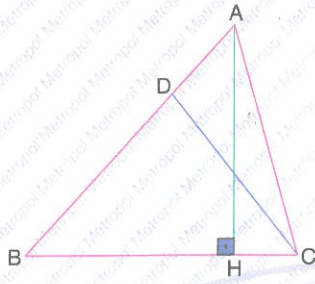


A) 2

B) 3

C) $3\sqrt{2}$ D) $3\sqrt{3}$ E) $4\sqrt{3}$

76. $\triangle ABC$ bir üçgen
 $\triangle ABC$ is a triangle
 $[AH] \perp [BC]$
 $|BD| = 2|AD|$
 $|BC| = 7$ cm
 $|AH| = 6$ cm
 $\Rightarrow A(\widehat{BDC}) = ? \text{ cm}^2$



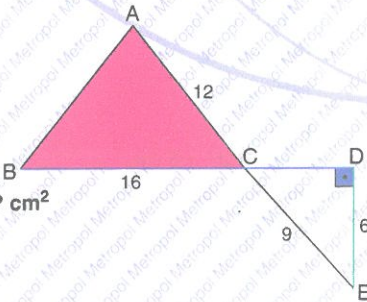
- A) 42 B) 30 C) 21 D) 14 E) 7

77. $m(\widehat{B}) = 30$
 $|AB| = 4$ cm
 $|BC| = 6$ cm
 $\Rightarrow A(\widehat{ABC}) = ? \text{ cm}^2$



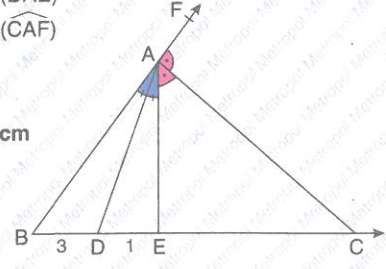
- A) 4 B) 5 C) 6 D) 8 E) 12

78. $[BD] \perp [DE]$
 $|AC| = 12$ cm
 $|BC| = 16$ cm
 $|DE| = 6$ cm
 $|CE| = 9$ cm
 $\Rightarrow A(\widehat{ABC}) = ? \text{ cm}^2$



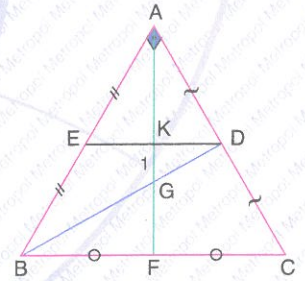
- A) 52 B) 56 C) 58 D) 64 E) 72

79. $m(\widehat{BAD}) = m(\widehat{DAE})$
 $m(\widehat{EAC}) = m(\widehat{CAF})$
 $|BD| = 3$ cm
 $|DE| = 1$ cm
 $\Rightarrow |EC| = ?$ cm



- A) $\frac{1}{2}$ B) 1 C) 2 D) 3 E) 5

80. $\triangle ABC$ bir üçgen.
 $\triangle ABC$ is a triangle
 $[BA] \perp [AC]$,
 $|AE| = |EB|$,
 $|AD| = |DC|$,
 $|BF| = |FC|$
 $|KG| = 1$ cm
 $\Rightarrow |BC| = ?$ cm



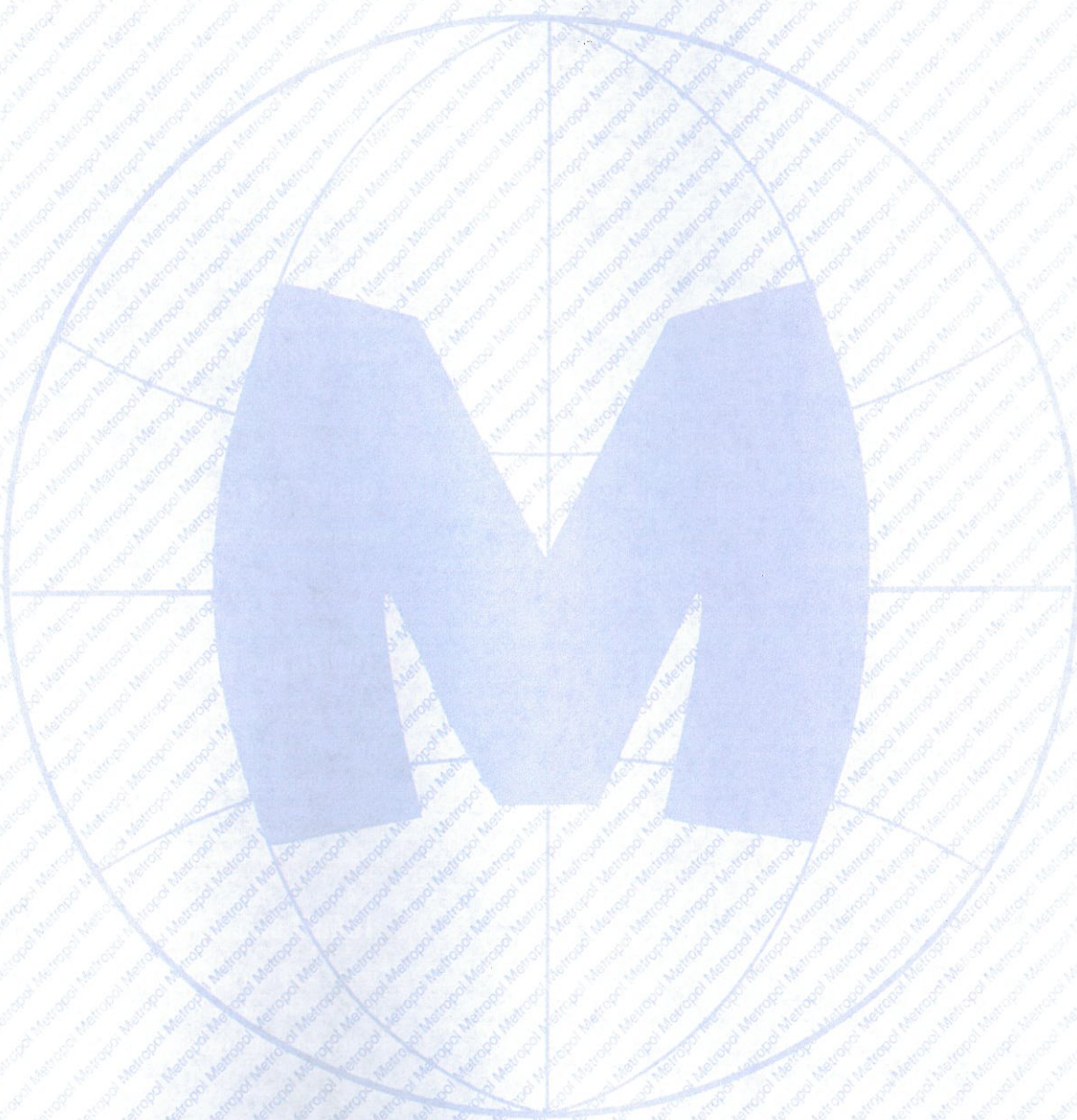
- A) 6 B) 8 C) 10 D) 11 E) 12

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