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2

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

In questions 1 - 6, each letter, digit or figure in step I is shown by a different letter, digit or figure in step II. Accordingly, find the letters, digits or figures which are indicated by question mark.

1.

I.	II.
▲ ■ ●	$\left. \begin{array}{l} 5 \ 3 \ 2 \\ 2 \ 3 \ 5 \\ 3 \ 5 \ 2 \\ 3 \ 2 \ 5 \\ 2 \ 5 \ 3 \end{array} \right\}$
■ ● ▲	
● ■ ▲	
▲ ● ■	
● ▲ ■	

⇒ ● ■ ▲ = ?

A) 532 B) 235 C) 352
D) 325 E) 253

2.

I.	II.
231	$\Rightarrow 341 = ?$
023	
102	
341	
423	

A) CEA B) ABC C) EAB
D) BDC E) DAB

3.

I.	II.
DÖRT	$\left. \begin{array}{l} 2 \ 8 \ 1 \ 6 \\ 4 \ 5 \ 3 \ 1 \\ 4 \ 2 \ 6 \ 3 \\ 1 \ 7 \ 5 \ 3 \\ 1 \ 6 \ 5 \ 8 \end{array} \right\}$
DATE	
ESAT	
ERAM	
ÖMER	

⇒ ESAT = ?

A) 2816 B) 4531 C) 4263
D) 1753 E) 1658

4.

I.	II.
1 2 8 5	$\Rightarrow 5128 = ?$
8 5 1 2	
5 1 2 8	
1 2 5 8	
5 8 2 1	

A) 7436 B) 6374 C) 7463
D) 3746 E) 3647

5.

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

⇒ 34728 = ?

- A) UNFMU B) TCUBL C) FSUBN
D) FNTBU E) BMSLN

7.

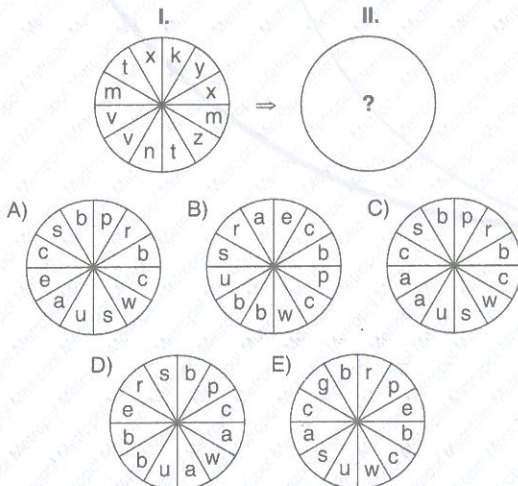
FABRİKATÖR kelimesi rakamlarla şifrelenmiştir.

Buna göre bu sayı aşağıdakilerden hangisi olabilir?

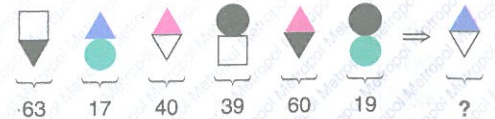
FABRİKATÖR is encrypted with numbers. Therefore, which of the following could this number be?

- A) 7213992483 B) 7213902813
C) 7218902483 D) 7213902483
E) 7231902483

6.



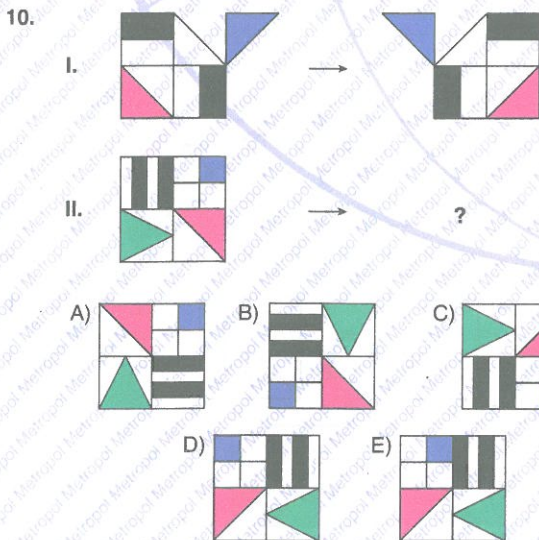
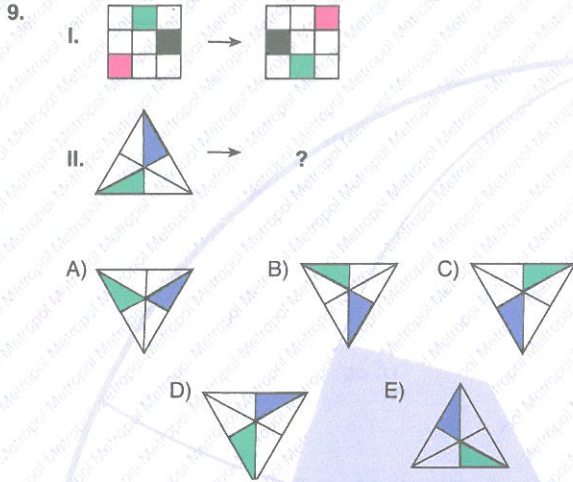
8.



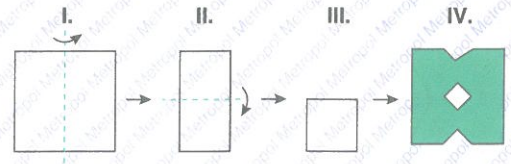
- A) 47 B) 30 C) 49 D) 74 E) 97

9 ve 10. sorularda I. satırda belirlenen ilişkiye göre II. satırı hangi şeklin tamamladığını bulunuz.

In questions 9 and 10, in accordance with the relation in line I, find the figure which completes line II.

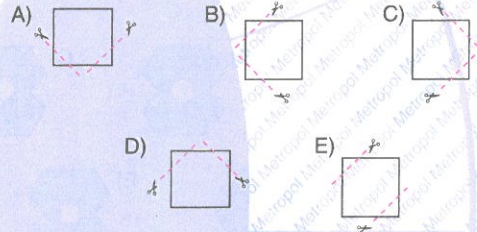


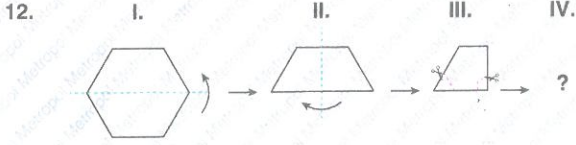
11.



I. adımda verilen şekil katlanarak III. adımdaki şekil elde ediliyor, ardından III. adımdaki şekil makas ile bir doğrultu boyunca kesiliyor. Kesilen parçalar atıldıktan sonra şekil tekrar açıldığında IV. adımdaki şekil elde ediliyor. Buna göre şeklin kesim biçimini bulunuz.

In the following question, the figure in step III results from folding the figure in step I, then the figure in step III is cut by scissors along a line. After removing the cutsections and unfolding the figure, the figure in step IV is obtained. Accordingly, find the cutting form of the figure.

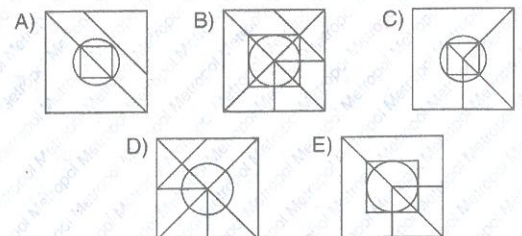
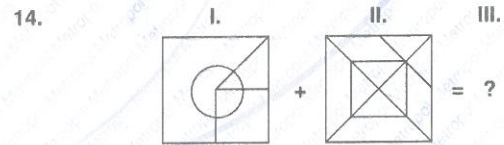
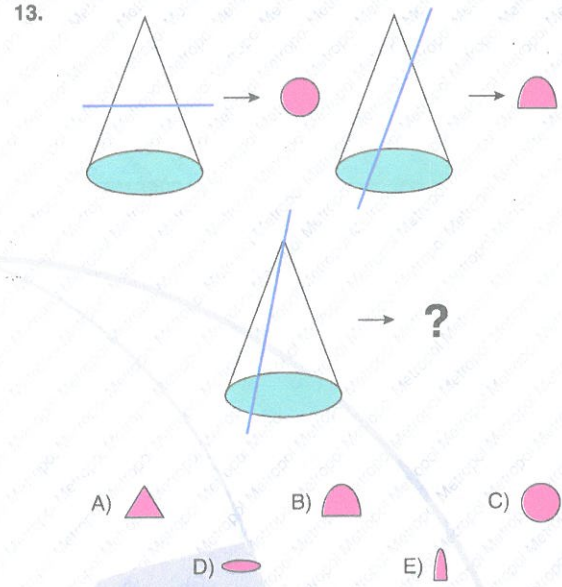
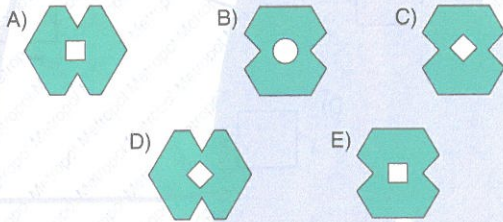




Yukarıdaki I. adımda verilen şekil, belirtilen eksenlerden adım adım katlanarak III. adımdaki şekil elde ediliyor ve ardından işaretli bölgelerden kesiliyor. Buna göre, III. adımdaki şekilde kesilen parçalar çıkartıldıktan sonra, şeklin konumu değiştirilmeden katlandığı eksenlerden açık hale getirilirse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

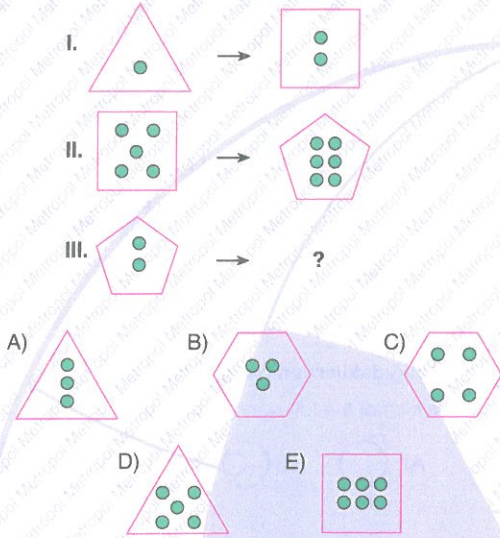
Accordingly, if the figure in step III is unfolded without changing its position about the folded axes, after taking out the cut pieces, which of the following figures is obtained?



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

In question 15, find the figure which completes row III, in accordance with the relation in row I and II.

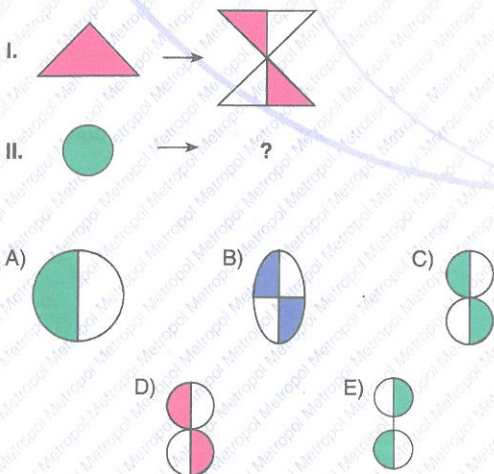
15.



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

In question 16, find the figure which completes row II, in accordance with the relation in row I.

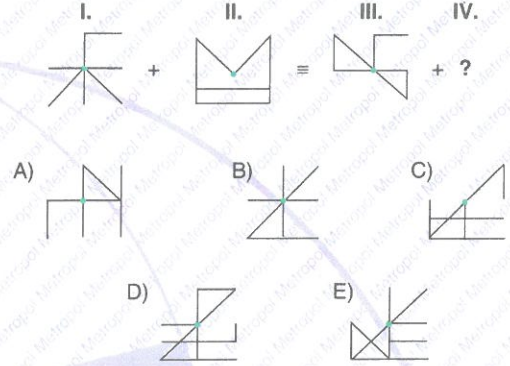
16.



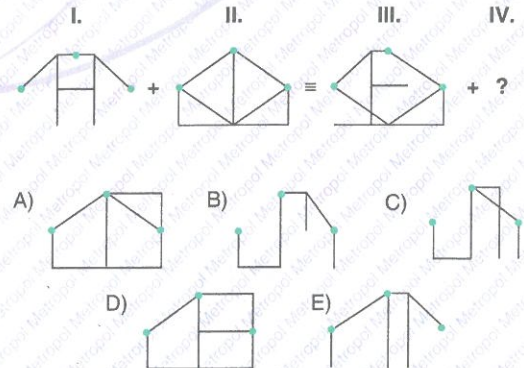
17 ve 18. sorularda, soru işaretinin yerine getirilmesi gereken şekli bulunuz.

In questions 17 and 18, find the figure to replace the question mark.

17.



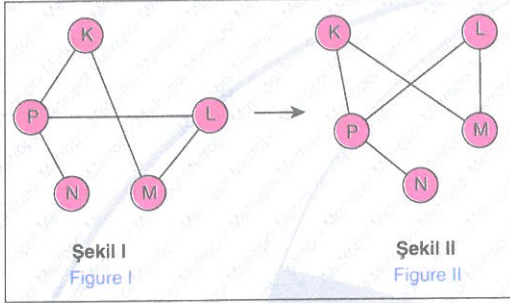
18.



19 ve 20. soruları aşağıdaki örnekte verilen ilişkiye göre cevaplayınız.

Answer question 19 and 20, in accordance with the relation given in the following example.

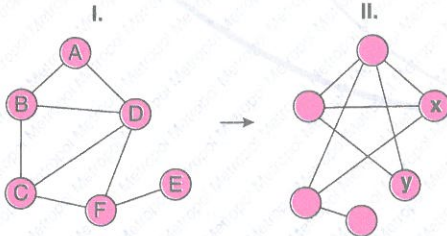
ÖRNEK / EXAMPLE:



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.

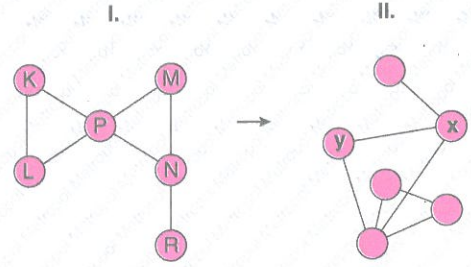
19.



$\Rightarrow x = ? ; y = ?$

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

20.

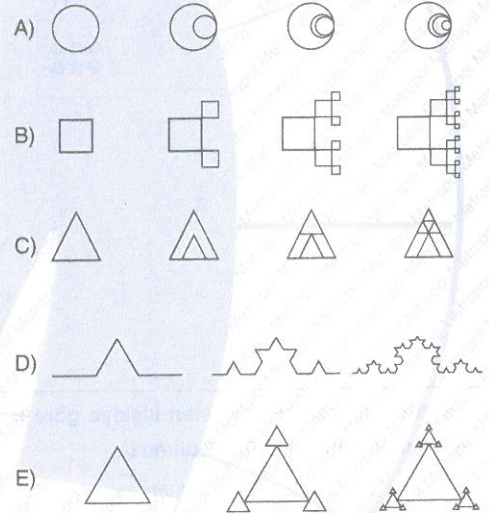


$\Rightarrow x = ? ; y = ?$

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

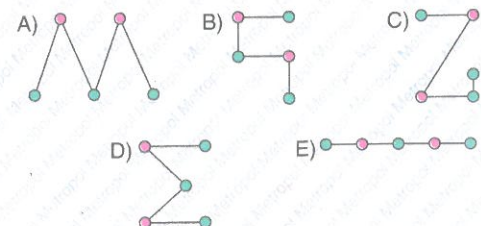
21. Aşağıdakilerden hangisi farklıdır.

Which of the following is different.



22. Aşağıdaki soruda farklı olan şekli bulunuz.

In the following question, find the different figure.



23.

Sonuç
(Result)

□	△	□	●	△	△	●
●	■	△	□	△	■	□
●	□	△	●	□	□	●
△	●	■	△	●	?	

Yukarıdaki tabloda soru işaretinin yerine hangi şekiller gelmelidir?

Which figures do question mark stand for in the table above?

- A) ■ △ B) ● ■ C) △ □
D) △ ● E) ● △

25.

	△	■	●
☐	☐	☐	K
☐	☐	L	☐
☐	M	☐	☐

⇒ K = ? ; L = ? ; M = ?

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

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

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

24.

△ □ ●	□ △	■ ○
□ △	K	□ □
○ △ ●	○ △	L
△ □ ●	△ △	M

⇒ K = ? ; L = ? ; M = ?

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

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

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

26.

I. II. III.

⇒ K = ?; L = ?; M = ?

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

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

	K	L	M
A)	Blue Circle	White Square	Pink Triangle
B)	White Circle	Blue Circle	White Square
C)	Blue Circle	Black Triangle	White Circle
D)	White Circle	Blue Circle	Pink Triangle
E)	Black Triangle	Green Square	White Circle

27.

I. II. III.

⇒ 2 = ?; 3 = ?; 4 = ?

I, II ve III yukarıdaki tablonun farklı birer parçasıdır. Buna göre, 2, 3 ve 4'ün yerine aşağıdakilerden hangisi gelmelidir?

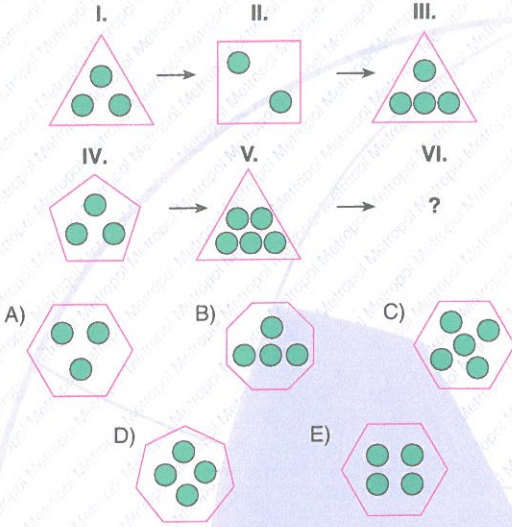
I, II and III are three different parts of the table above. Which of the following do 2, 3 and 4 stand for?

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

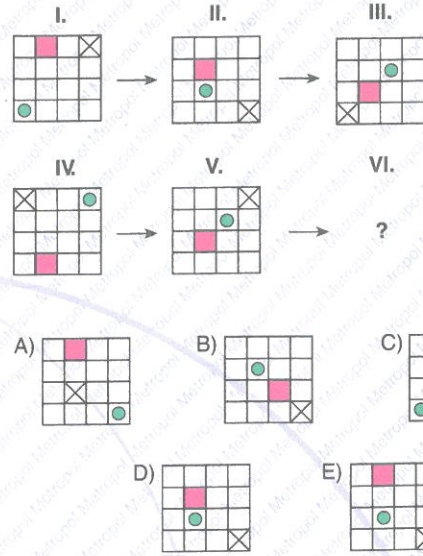
28. - 30. sorularda, verilen her bir şekil dizisindeki soru işaretinin yerine hangi şeklin getirilmesi gerektiğini bulunuz.

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

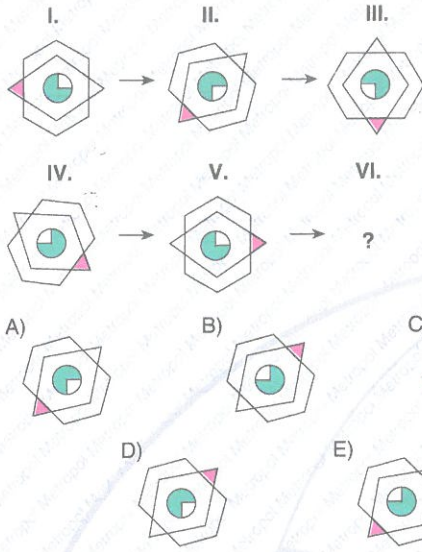
28.



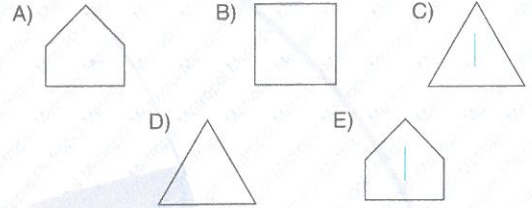
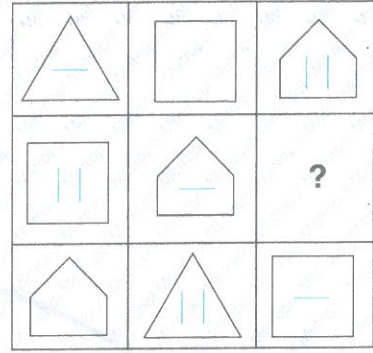
29.



30.



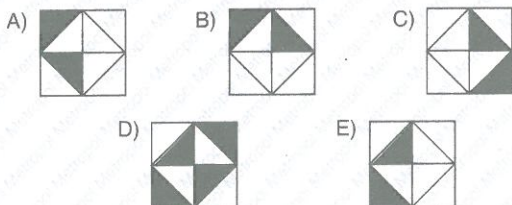
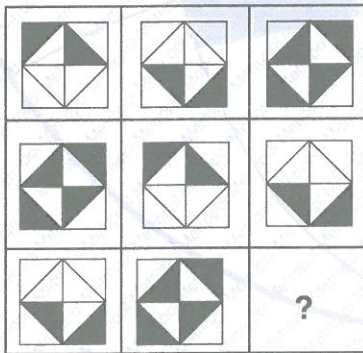
32.



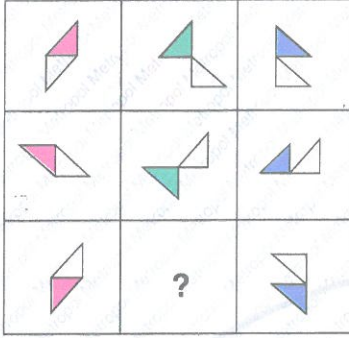
31. - 33. sorularda, verilen her bir şekil matrisindeki soru işaretinin yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In questions 31 - 33, find the figure which should replace the question mark in each given figure matrix.

31.



33.



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

34. Aşağıdaki eşleşmelerden hangisi yanlıştır?

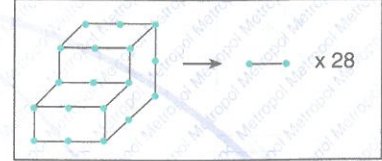
Which of the following matches is wrong?

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

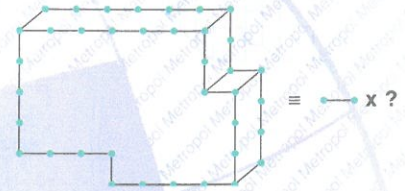
35. soruyu aşağıdaki örnekte verilen ilişkiye göre cevaplayınız.

Answer question 35, in accordance with the relation established in the example below.

ÖRNEK / EXAMPLE:

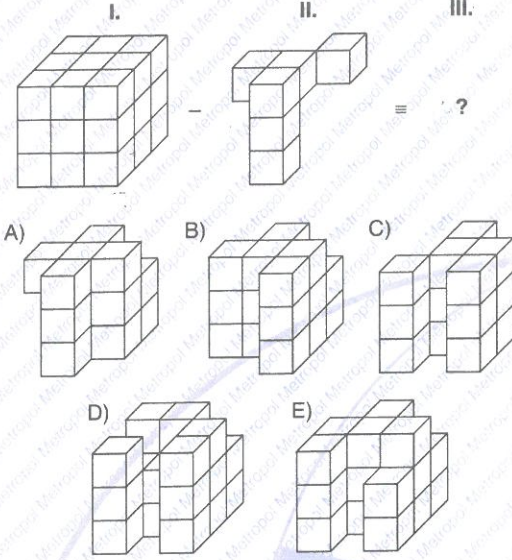


35.

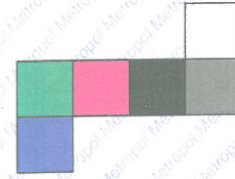


- A) 53 B) 54 C) 55 D) 56 E) 57

36.

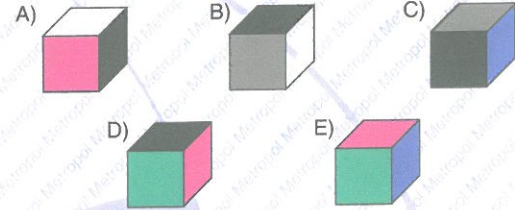


38.

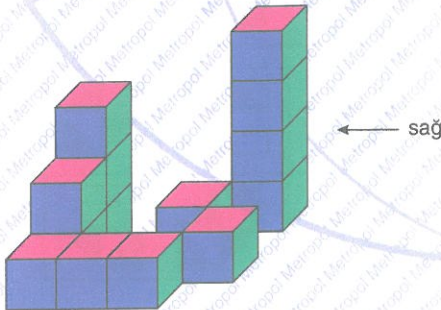


Aşağıdakilerden hangisi verilen küpün kapalı hali değildir?

Which of the following is not a folded form of the given cube?



37.



Verilen cismin sağından bakan bir kişinin göreceği kare sayısı kaçtır?

How many squares will a person looking at from the right of the given object see?

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

39.

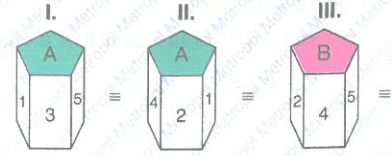


Aşağıdakilerden hangisi verilen küpün açık hali olamaz?

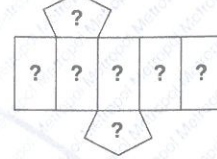
Which of the following cannot be the unfolded form of the given cube?

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

40.



IV.



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

41. $a = -1$, $b = 0$, $c = 1$
 $\Rightarrow (a - b + 2c)^a + b(4a - 3c + b) + a \cdot c(2c - a) = ?$
 A) -1 B) -2 C) 0 D) 1 E) 2

44. $x, y \in \mathbb{N}^+$,
 $x + y = 17$
 $\Rightarrow \max(x \cdot y) + \min(x \cdot y) = ?$
 A) 72 B) 79 C) 85 D) 88 E) 97

42. $-1 < x < 0$
 $x^{20}, x^{25}, x^{30}, x^{35}$ ifadelerini sıralayınız.
 Order the given expressions.

- A) $x^{25} < x^{35} < x^{30} < x^{20}$ B) $x^{35} < x^{25} < x^{30} < x^{20}$
 C) $x^{20} < x^{25} < x^{30} < x^{35}$ D) $x^{35} < x^{25} < x^{20} < x^{30}$
 E) $x^{25} < x^{35} < x^{20} < x^{30}$

45. $(AB), (BA) \in \mathbb{N}$,
 $AB - BA = A^2 - B^2$
 $\Rightarrow \max(A \cdot B) = ?$
 A) 81 B) 64 C) 20 D) 14 E) 8

43. $A - 3 = B$
 $B - 3 = C$
 $C - 3 = D \Rightarrow A - D = ?$
 A) 9 B) 10 C) 11 D) 12 E) 13

46. $AB - BB + BA = 77 \Rightarrow A = ?$
 A) 3 B) 4 C) 5 D) 6 E) 7

47. $ABC4 - 5BC7 = 1997 \Rightarrow A = ?$

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

50.
$$\begin{array}{r} ABCABC7 \\ - \quad \quad \quad x \\ \hline y \end{array} \Rightarrow x+y = ?$$

- A) 1008 B) 1018 C) 10017
D) 10018 E) 100017

48. $23AB \in \mathbb{N}$

$$\begin{array}{r} 23AB \\ - \quad \quad 15 \\ \hline 6 \end{array}$$

$\Rightarrow \max(A+B) = ?$

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

51. $(1x3y5) \in \mathbb{N}$

$$\begin{array}{r} 1x3y5 \\ - \quad \quad 9 \\ \hline 7 \end{array} \Rightarrow (x+y)_{\max} = ?$$

- A) 7 B) 10 C) 14 D) 16 E) 18

49. $P \in \mathbb{Z}^+$

$$\begin{array}{r} M \quad N \\ - \quad \quad 2 \\ \hline 3 \end{array} \quad \begin{array}{r} N \quad P \\ - \quad \quad 3 \\ \hline 4 \end{array}$$

$\Rightarrow \min(M) = ?$

- A) 11 B) 23 C) 29 D) 35 E) 41

52.
$$\left. \begin{array}{l} A = 4 + 8 + 12 + \dots + k + (k+4) \\ B = 32 + 36 + \dots + k + (k+4) \end{array} \right\} \Rightarrow A-B = ?$$

- A) 52 B) 68 C) 88 D) 112 E) 144

53. $A = 5 + 8 + 11 + \dots + 62 + 65$
 $B = 7 + 11 + 15 + \dots + 67 + 71$
 $\Rightarrow A - B = ?$

- A) 72 B) 76 C) 80 D) 84 E) 88

56. $x, y \in \mathbb{N}$
 $19! = 6^x \cdot y$
 $\Rightarrow \sum x = ?$

- A) 8 B) 16 C) 24 D) 36 E) 72

54. x ve y asal sayılar olduğuna göre $x \cdot y$ aşağıdakilerden hangisine eşit olabilir?

Since x and y are prime numbers, which of the following can $x \cdot y$ be equal to?

- A) 19 B) 24 C) 36 D) 49 E) 63

57. $A = 36! - 2$
 $A = xyz \dots \text{pr} \overbrace{999 \dots 998}^{n \text{ tane } n \text{ number}}$
 $\Rightarrow n = ?$

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

55. a, b ve c sırasıyla ardışık asal rakamlar
 a, b and c are consecutive prime numbers, respectively.

$(abc) \in \mathbb{N}$

$$\begin{array}{r} abc \\ - \quad 5 \\ \hline k \end{array}$$

$k \neq 0 \Rightarrow a + \frac{b}{c} = ?$

- A) $\frac{11}{3}$ B) $\frac{13}{5}$ C) $\frac{19}{5}$ D) $\frac{26}{7}$ E) $\frac{38}{7}$

58. $\frac{(a+5)!}{(a+7)!} = \frac{1}{11} - \frac{1}{12}$
 $\Rightarrow \frac{(a+2)!}{(a-1)!} = ?$

- A) 200 B) 210 C) 225 D) 240 E) 250

59. $\frac{1}{2!} + \frac{2}{3!} + \frac{3}{4!} + \dots + \frac{9}{10!} = ?$

A) $\frac{9}{10!}$

B) 1

C) $\frac{11}{10!}$

D) $1 - \frac{1}{10!}$

E) $9 - \frac{1}{10!}$

62. $\frac{1}{3} - \frac{1}{2} + \frac{1}{4} + 3 \cdot \left(\frac{1}{6} - \frac{1}{12} - \frac{1}{3} \right) = ?$

A) -1

B) $-\frac{2}{5}$

C) $-\frac{3}{4}$

D) $-\frac{2}{3}$

E) $-\frac{1}{3}$

60.

$$\begin{array}{r} \text{a b c} \\ \times \quad 24 \\ \hline \cdot \cdot \cdot \\ + \cdot \cdot \cdot \\ \hline 5250 \end{array}$$

Yukarıdaki işlemin doğru sonucu kaç olmalıdır?

What should be the correct result of the given operation?

- A) 2720 B) 2860 C) 2980 D) 3000 E) 3420

63.

$$\frac{\frac{3}{8} + \frac{5}{12} + \frac{7}{11}}{\frac{1}{4} + \frac{5}{18} + \frac{14}{33}} = ?$$

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

B) 1

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

D) $\frac{1}{3}$

E) 3

61. $\frac{1}{4} - \frac{3}{7} : \frac{12}{7} + \left(\frac{1}{3} - \frac{2}{5} \right) \cdot \frac{3}{2} = ?$

A) $-\frac{7}{10}$

B) $-\frac{3}{10}$

C) $-\frac{1}{10}$

D) $\frac{1}{10}$

E) $\frac{3}{10}$

64. $\frac{1 - 1\frac{2}{7}}{2 - 2\frac{1}{7}} = ?$

A) $-\frac{1}{4}$

B) $-\frac{1}{2}$

C) -1

D) 1

E) 2

65. $\frac{4 + \frac{3}{19} - \frac{35}{17}}{1 + \frac{22}{19} - \frac{1}{17}} = ?$

- A) 2 B) 1 C) $\frac{1}{2}$ D) $\frac{3}{323}$ E) $\frac{1}{323}$

68. $\frac{4,8}{0,48} + \frac{0,014}{0,07} - \frac{0,48}{2,4} - 1 = ?$

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

66. $\frac{1}{25} + \frac{1}{16} = A \Rightarrow \left(\frac{51}{25} - \frac{31}{16}\right) \cdot \left(\frac{103}{25} + \frac{67}{16}\right) = ?$

- A) 3A B) $A \cdot (3A + 1)$ C) $A \cdot (A + 1)$
D) $\frac{A \cdot (A + 3)}{3}$ E) $A \cdot (3A + 8)$

69. $\frac{A}{1,23} = x \cdot A \Rightarrow x = ?$

- A) $\frac{25}{37}$ B) $\frac{29}{37}$ C) $\frac{30}{37}$ D) $\frac{37}{29}$ E) $\frac{37}{30}$

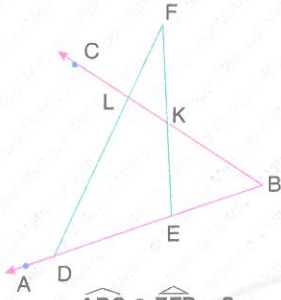
67. $\frac{0,05}{0,5} + \frac{5,4}{0,27} - \frac{0,01}{0,1} = ?$

- A) 10 B) 15 C) $\frac{35}{2}$ D) 20 E) 30

70. $0,1x\overline{6} = \frac{2x+3}{75} \Rightarrow x = ?$

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

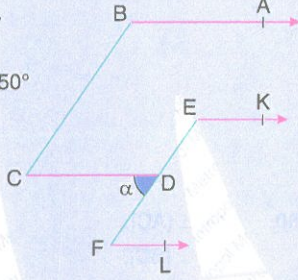
71.



- ⇒ $\widehat{ABC} \cap \widehat{FED} = ?$
- A) $\{[ED], [KL]\}$ B) $\{[DL], [EK]\}$
 C) $\{[LK], [ED], E, L, K, D\}$ D) $\{E, D, L, K\}$
 E) $\{[ED], [DL], [LK], [KE]\}$

72.

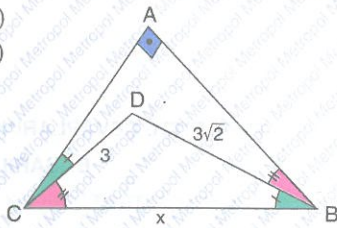
- $[BA] \parallel [CD] \parallel [EK] \parallel [FL]$
 $[BC] \parallel [EF]$
 $m(\widehat{ABC}) + m(\widehat{FEK}) = 250^\circ$
 $\Rightarrow m(\widehat{CDF}) = \alpha = ?$



- A) 40° B) 45° C) 50° D) 55° E) 60°

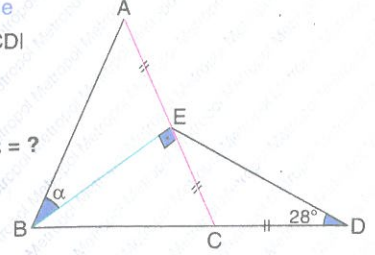
73.

- $m(\widehat{ACD}) = m(\widehat{DBC})$
 $m(\widehat{DCB}) = m(\widehat{ABD})$
 $IDCI = 3 \text{ br (u)}$
 $IDBI = 3\sqrt{2} \text{ br (u)}$
 $\Rightarrow x = ?$



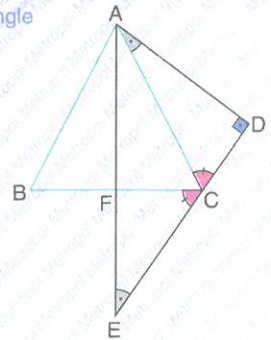
- A) 5 B) $3\sqrt{5}$ C) $2\sqrt{6}$ D) 10 E) $6\sqrt{2}$

74.

 $\widehat{ABC}$ bir üçgen $\widehat{ABC}$ is a triangle $|AE| = |EC| = |CD|$ $[BE] \perp [AC]$ $m(\widehat{EDB}) = 28^\circ$ $\Rightarrow m(\widehat{ABE}) = \alpha = ?$ 

- A) 28° B) 30° C) 32° D) 33° E) 34°

75.

 $\widehat{ABC}$ bir eşkenar üçgen $\widehat{ABC}$ is an equilateral triangle $[AD] \perp [DE]$ $m(\widehat{AED}) = m(\widehat{DAC})$ $m(\widehat{BCE}) = m(\widehat{ACD})$ $\Rightarrow \frac{|IDE|}{|IBF|} = ?$ 

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

- 76.
- $\triangle ABC$
- bir üçgen.

 $\triangle ABC$ is a triangle

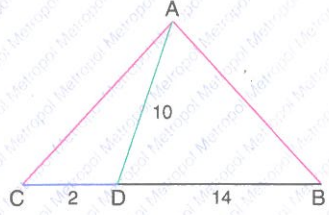
$|\overline{AB}| = |\overline{AC}|$

$|\overline{AD}| = 10 \text{ cm}$

$|\overline{CD}| = 2 \text{ cm}$

$|\overline{BD}| = 14 \text{ cm}$

$\Rightarrow |\overline{AB}| = ? \text{ cm}$



- A)
- $4\sqrt{2}$
- B)
- $6\sqrt{2}$
- C)
- $7\sqrt{2}$
- D)
- $8\sqrt{2}$
- E)
- $14\sqrt{2}$

- 79.
- $\triangle ABC$
- ve
- $\triangle BDC$
- birer üçgen

 $\triangle ABC$ and $\triangle BDC$ are triangles

$[\overline{BD}] \perp [\overline{DC}]$

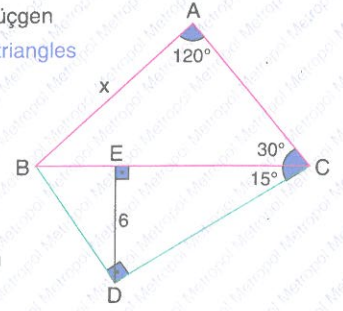
$m(\widehat{BAC}) = 120^\circ$

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

$m(\widehat{BCD}) = 15^\circ$

$|\overline{DE}| = 6 \text{ cm}$

$\Rightarrow |\overline{AB}| = x = ? \text{ cm}$



- A) 8 B)
- $8\sqrt{3}$
- C) 12 D)
- $12\sqrt{3}$
- E) 24

- 77.
- $m(\widehat{B}) = m(\widehat{C}) = 60^\circ$

$[\overline{DE}] \parallel [\overline{AC}]$

$[\overline{AE}] \parallel [\overline{BC}]$

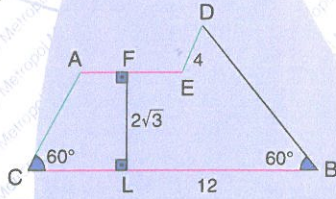
$|\overline{DE}| = 4 \text{ cm}$

$|\overline{BL}| = 12 \text{ cm}$

$|\overline{FL}| = 2\sqrt{3} \text{ cm}$

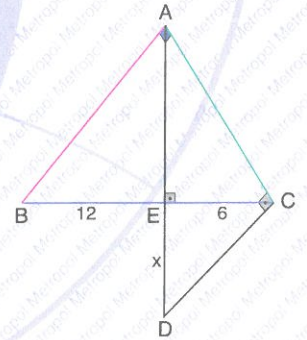
$2|\overline{AF}| = |\overline{EF}|$

$\Rightarrow |\overline{BC}| = ? \text{ cm}$



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

- 80.
- $[\overline{BA}] \perp [\overline{AC}]$
- ,
-
- $[\overline{AD}] \perp [\overline{BC}]$
- ,
-
- $[\overline{AC}] \perp [\overline{CD}]$
- ,
-
- $|\overline{BE}| = 12 \text{ cm}$
- ,
-
- $|\overline{EC}| = 6 \text{ cm}$
-
- $\Rightarrow |\overline{ED}| = x = ? \text{ cm}$



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

- 78.
- $\triangle ABC$
- ve
- $\triangle FED$
- birer üçgen

 $\triangle ABC$ and $\triangle FED$ are triangles

$[\overline{AB}] \perp [\overline{BC}]$

$[\overline{AC}] \perp [\overline{DC}]$

$[\overline{FE}] \perp [\overline{ED}]$

$|\overline{EC}| = |\overline{CD}|$

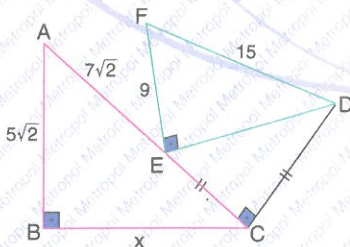
$|\overline{FE}| = 9 \text{ cm}$

$|\overline{FD}| = 15 \text{ cm}$

$|\overline{AE}| = 7\sqrt{2} \text{ cm}$

$|\overline{AB}| = 5\sqrt{2} \text{ cm}$

$\Rightarrow |\overline{BC}| = x = ? \text{ cm}$



- A) 13 B) 17 C) 20 D)
- $12\sqrt{2}$
- E)
- $16\sqrt{2}$

TEST BİTTİ. CEVAPLARINIZI KONTROL EDİNİZ.

BAŞARILARI!

END OF TEST. CHECK YOUR ANSWERS.

GOOD LUCK!



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