آزمون های آزمایشی

پوس

1) **x ve y birer tam sayıdır.**
x and y are integers.

$$x = \frac{2n+5}{n+4}$$

$$y = \frac{n+4}{2n+5}$$

olduğuna göre, n'nin alabileceği farklı tam sayı değerleri toplamı kaçtır?

Since n is different integers that n can take
What is the sum of the number values?

A) -16 B) -15 C) -13 D) -11 E) -4

2)

$$a^{10}.c^3 < 0$$
$$a^5.b < 0$$
$$a^3 - c^{15} < 0$$

olduğuna göre, a, b ve c nin işaretleri sırasıyla aşağıdakilerden hangisidir?
Since, the signs of a, b and c are respectively
Which of the following?

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

3) $\frac{1}{10.11} + \frac{1}{11.12} + \frac{1}{12.13} + ... + \frac{1}{99.100}$

İşleminin sonucu kaçtır?
What is the result of your action?

A) $\frac{3}{10}$ B) $\frac{7}{10}$ C) $\frac{7}{100}$ D) $\frac{9}{100}$ E) $\frac{11}{100}$

4) **a,b,c ve d birer pozitif tam sayıdır.**
a, b, c and d are positive integers.

$$a + \cfrac{1}{b + \cfrac{1}{c + \cfrac{1}{d}}} = \frac{67}{29}$$

oldulğuna göre, a-b+c-d ifadesinin değerleri kaçtır?
If so, what is the value of the expression a-b+c-d?

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

5) $4 + \cfrac{x}{4 - \cfrac{x}{4 + \cfrac{x}{4 - \cfrac{x}{\vdots}}}} = 6$

oldğuna ğore, x kaçtır?

Since it is, what is x?

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

6) $-\frac{7}{2} < \frac{a-3x}{2} \leq 4$

eşitsizliğinin çözüm kümesi [-1, 4) olduğuna göre,a kaçtır?
Since the solution set of the inequality is [-1, 4), what is a?

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

7)
$$a+b=3\sqrt{3}$$
$$b+c=4\sqrt{2}$$
$$c+a=2\sqrt{6}$$

olduğuna göre, a, b ve c nin doğru sıralanışı aşağıda-kilerden hangisidir?
Which of the following is the correct order of a, b and c?

A) a<b<c B) a<c<b C) b<a<c
D) b<c<a E) c<b<a

8) $\left||x-3|-2\right|+\left|2-|x-3|\right|=6$

olduğuna göre, x in alabileceği farklı değerler toplamı kaçtır?

what is the total of different values that x can take?

A) 3 B) 4 C) 5 D) 6 E) 8

9) $\left(|x-3|-5\right)^{|2x-3|-7}=1$

eşitliğini sağlayan kaç farklı x değeri vardır?

How many different x values are there that satisfy the equation?

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

10) $\frac{10^x+1-5^x-2^x}{2^x-1}=124$

olduğuna göre, x kaçtır?
Since , what is x?

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

11)
$$3^{A+B}=27!$$
$$3^{A-B}=26!$$

olduğuna göre, B kaçtır?
Since , what is B?

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

12) $\frac{\sqrt{80}-4}{\sqrt{35}+\sqrt{3}-\sqrt{7}-\sqrt{15}}$

İşleminin sonucu kaçtır?
What is the result of your action?

A) $\sqrt{7}+\sqrt{3}$ B) $2\sqrt{7}$ C) $2\sqrt{3}$
D) $\sqrt{7}$ E) $\sqrt{7}-\sqrt{3}$

13) **x>4 olmak üzereç,**

x>4 to be,

$$\sqrt{x+4+4\sqrt{x}}+\sqrt{x+4-4\sqrt{x}}=6$$

olduğuna göre, x kaçtır?

Since , what is x?

A) 8 B) 9 C) 16 D) 25 E) 36

14)

$$A=140.160$$
$$B=146.154$$

olduğuna göre, A nın B cinsinden eşiti aşağıdakiler-den hangisidir?

which of the following is the equivalent of A in terms of B?

A) B+1 B) B C) B-84

D) B+20 E) B-40

15)

$$\frac{x.y}{x+y}=\frac{4}{3}$$
$$\frac{y.z}{y+z}=\frac{6}{5}$$
$$\frac{x+z}{x.z}=\frac{7}{12}$$

olduğuna göre, z kaçtır?

Since , what is z?

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

16)

$$A=\{x:x<200, x=12n, n\in\mathbb{Z}^+\}$$
$$B=\{x:x<300, x=8k, k\in\mathbb{Z}^+\}$$

olduğuna göre, AUB kümesinin eleman sayısı kaçtır?

what is the number of elements in the AUB set?

A) 54 B) 50 C) 46 D) 45 E) 43

17) **A ve B, E evrensel kümesinin alt kümeleridir.**

A and B are subsets of the universal set E.

$$2.s(A)-3.s(B')=24$$
$$s(B)-s(A)=36$$
$$s(A')+4.s(B')=18$$

olduğuna göre, s(E) kaçtır?

Since , what is s(E)?

A) 27 B) 31 C) 35 D) 37 E) 39

18)

$$f(x)=\begin{cases}2x-3, & x\geq 3\\ 3x-6, & x<3\end{cases}$$

olduğuna göre,f(4)+f^{-1}(-18) toplamı kaçtır?

Since, f(4)+f^{-1}(-18) What is the total?

A) -12 B) -5 C) -3 D) 0 E) 1

19)

$$\begin{array}{r} (23)_5 \\ + \quad (14)_5 \\ \hline (A)_5 \end{array} \Rightarrow A = ?$$

A) 122 B) 111 C) 104 D) 44 E) 42

20)

$$\begin{array}{r} (23)_4 \\ \times \quad (2)_4 \\ \hline (E)_4 \end{array} \quad E = ?$$

A) 100 B) 110 C) 112 D) 123 E) 130

21) $x > 4$

$(A)_x = 2x^4 + 3x^3 + x^2 + 4x^1 + 2x^0$

$\Rightarrow A = ?$

A) 23142 B) 12132 C) 2342

D) 2314 E) 231

22) $x \geq 2$

$$\begin{array}{r|l} A & x \\ \hline - & 3 \\ \hline x-2 & \end{array} \qquad \begin{array}{r|l} x & y \\ \hline - & 3 \\ \hline 2 & \end{array} \qquad A = ?$$

A) 12y B) 4y+2 C) 12y+6

D) 4y-3 E) 9y+4

23)

$$\left(\frac{2}{7}\right)^{3x} : \left(\frac{49}{4}\right)^{x^2+x-2} = \left(\frac{2}{7}\right)^3$$

$x_1 + x_2 = ?$

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

24) $\sqrt[3]{x^2 . \sqrt[3]{x^2 . \sqrt[3]{x^2 . \cdots}}} = 81$

$x = ?$

A) 3 B) 9 C) 18 D) 27 E) 81

25)

$a > 0$

$a + \frac{1}{a} = 2\sqrt{5}$

$a - \frac{1}{a} = ?$

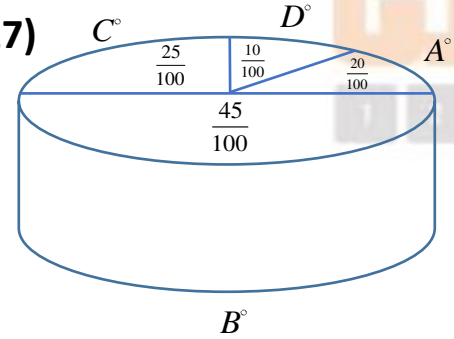
A) 2 B) 4 C) 6 D) 8 E) 10

26) $20x = 15y = 12z, 2x - 3y + z = -2$

$x = ?$

A) 3 B) 4 C) 6 D) 8 E) 10

27)



$A^\circ = ?$

A) 50 B) 66 C) 72 D) 80 E) 96

28)

$2a + 3b - c = 12$

$3a + 2b + 2c = 14$

$a + b - 3c = 2$

$a + b + c = ?$

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

29)

$A = \{x | x \in Z, 1 \le x \le 25|\}$

$B = \{y | y \in Z, 1 \le y^2 \le 25|\}$

$n(A - B) = ?$

A) 19 B) 20 C) 21 D) 23 E) 25

30)

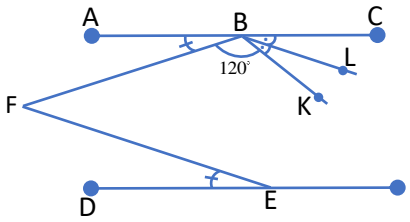
$f(x) = \frac{x+1}{3}, g(x) = \frac{x-1}{2}$

$(fog)^{-1}(x) = ?$

A) 6x-1 B) 6x+1 C) 6x+2

D) 6x+4 E) 3x-12

31)



$AC \,||\, DE, [BL] \,||\, [FE], m(KBL) = m(LBC)$

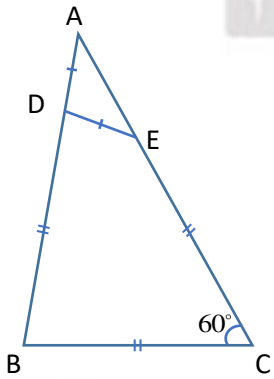
$m(ABF) = m(FED), m(FBK) = 120^o$

Yukarıdaki verilere göre, m(ABF) kaç derecedir?

According to the data above, how many degrees is $m(ABF)$*?*

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

32)



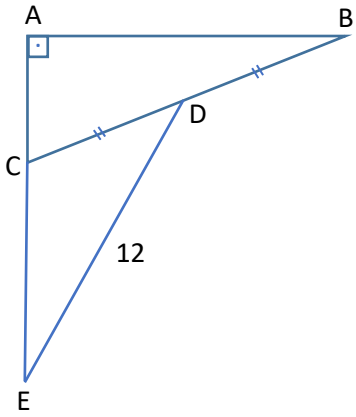
ABC, **üçgen**
ABC, triangle
$|AD| = |DE|$
$|DB| = |BC| = |CE|$
$m(ACB) = 60^\circ$

Yukarıdaki verilere göre, m(ABC) kaç derecedir?

According to the above data, how many degrees is $m(ABC)$*?*

A) 70 B) 75 C) 80 D) 85 E) 90

33)



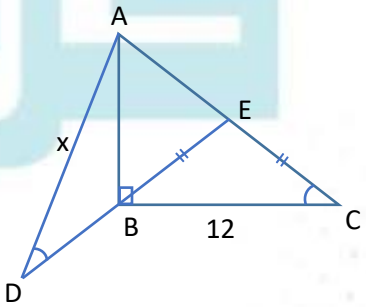
ABC, **üçgen**
ABC, triangle
$[AE] \perp [AB]$
$2m(ABC) = m(AED)$
$|CD| = |BD|$
$|CE| = 7cm$
$|DE| = 12cm$

Yukarıdaki verilere göre, |AC| kaç cm dir?

According to the data above, how many cm is $|AC|$*?*

A) 3 B) 3.5 C) 4 D) 1.5 E) 5

34)



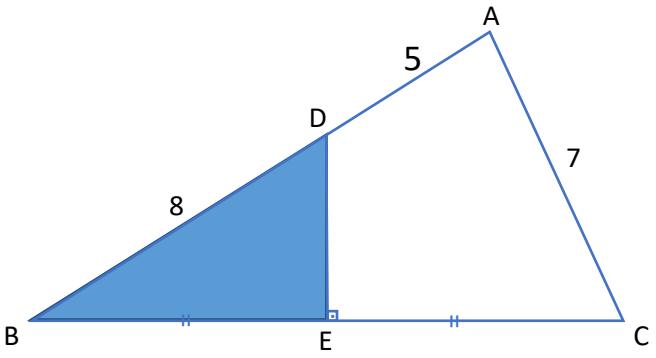
$[AB] \perp [BC], m(ACB) = m(ADE), |EB| = |EC|, |BC| = 12cm$

Yukarıdaki verilere göre, |AD|=x kaç cm dir?

According to the data above, how many cm is $|AD| = x$*?*

A) 6 B) 12 C) 15 D) 18 E) 24

35)



ABC, **üçgen**, triangle, $[DE] \perp [BC], |BE| = |EC|, |AD| = 5cm$

$|AC| = 7cm, |DB| = 8cm$

Yukarıdaki verilere göre, Alan(DBE) kaç dir?

According to the above data, what is Area(DBE)?

A) $6\sqrt{3}$ B) $7\sqrt{3}$ C) $8\sqrt{3}$ D) $9\sqrt{3}$ E) $10\sqrt{3}$

36)

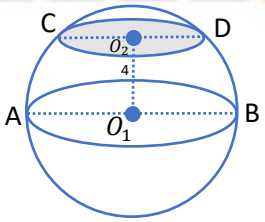
(AB, O_1)

(CD, O_2)

$|O_1O_2| = 4cm$

$A(AB, O_1) = 100\pi cm^2$

$\Rightarrow TA(SA) = ?\, cm^2$



$A) 3\pi$

$B) 6\pi$

$C) 9\pi$

$D) 12\pi$

$E) 15\pi$

37) O noktası şekildeki çemberin merkezidir.

Point O is the center of the circle in the figure.

$[AB] \perp [EF]$,

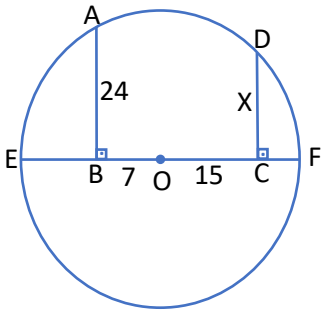
$[DC] \perp [EF]$,

$|AB| = 24cm$,

$|BO| = 7cm$,

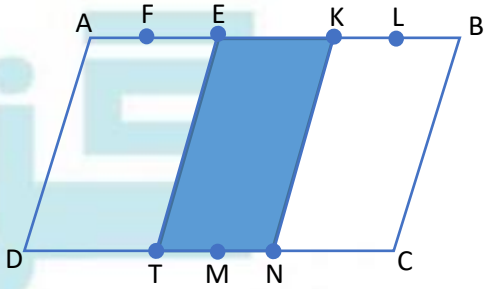
$|OC| = 15cm$

$\Rightarrow |DC| = x = ?\, cm$



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

38)



ABCD bir paralelkenardır. / *ABCD is a parallelogram.*

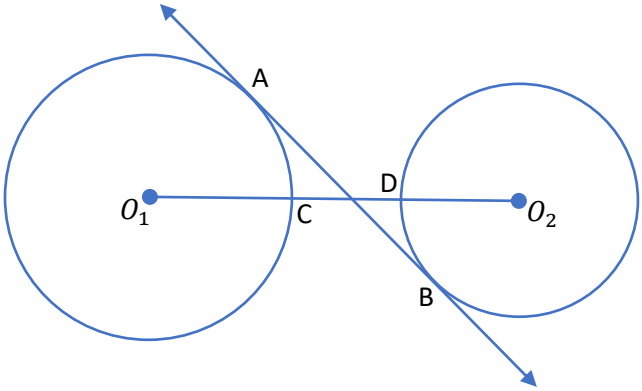
[AB] uzunluğu 5 eş parçaya, [CD] uzunluğu 4 eş parçaya bölünmüştür.

The length [AB] is divided into 5 equal parts, the length [CD] is divided into 4 equal parts.

$$\Rightarrow \frac{\text{Taralı alan(the shaded area)..}}{\text{A(ABCD)}} = ?$$

A) $\frac{1}{20}$ B) $\frac{3}{20}$ C) $\frac{5}{20}$ D) $\frac{7}{20}$ E) $\frac{9}{20}$

39)



$r_1 = 4cm$

$r_2 = 2cm$

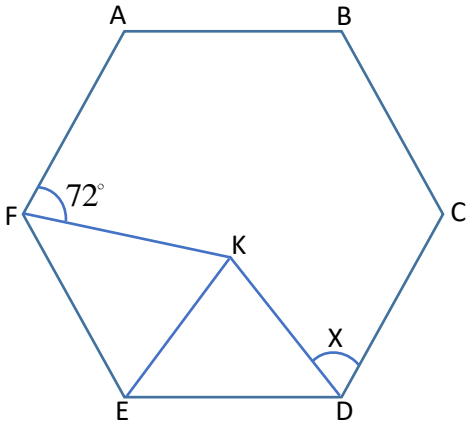
$|AB| = 8cm$

$|CD| = xcm$

$x = ?$

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

40)



x = ?

$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$

$|FE| = |EK|$

$m(ADF) = 72^\circ$

$m(KDC) = x$

A) 56 B) 54 C) 52 D) 50 E) 48

41)

MƏRTƏBƏ ›› ΔΔ○+÷□Δ
PİLLƏKƏN ›› ↑↓●Δ♦⁎Δ♦
HEYVA ›› ?

A) +↑# ⁎Δ B) @↖↗Δ# C) ↖↗#?÷
D) →@←#? E) @←#?←

42)

P	A	T	E	N		
M	E	R	A	L		
Ü	K	A	M	E	⇨	Ü K A M E = ?
T	Ü	L	K	Ü		
Ü	L	M	Ü	K		

A) 0 6 9 0 3 B) 9 2 1 8 6 C) 4 8 5 2 7
D) 0 3 8 9 2 E) 5 0 6 3 0

43)

M	A	N	İ		9	2	4	6
T	U	F	O		5	8	2	0
X	A	Z	U	⇨	8	1	3	5
F	İ	N	M		3	6	4	9
O	T	A	Z		7	2	0	1

F İ N M + M A N İ = ?

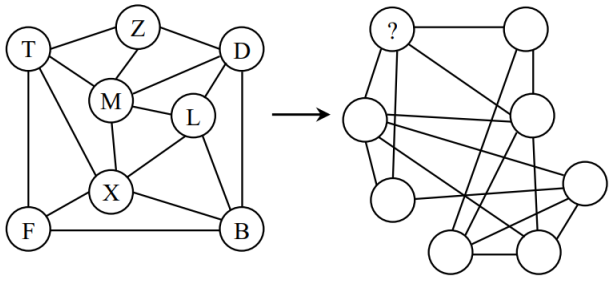
A) A L M A B) U S T A C) Z U R N A
D) U A T M O E) A O M Z O

44)

$m \text{ ✡ } n = m^3 - \sqrt{n}$
$(x \text{ ✡ } 16) = (3 \text{ ✡ } y) = 23$
$4x+y = ?$

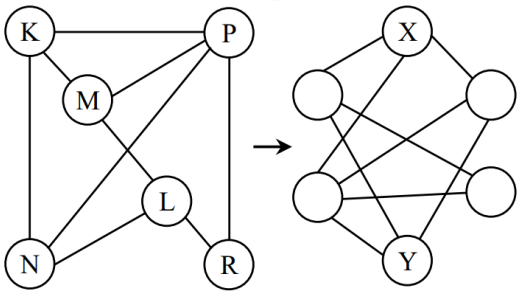
A) 36 B) 28 C) 42 D) 40 E) 52

45)



A) B B) L C) T
D) X E) D

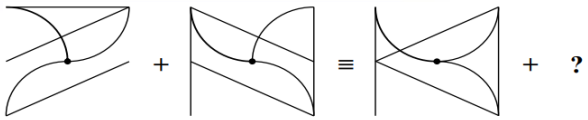
46)

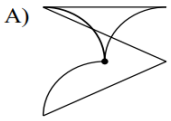
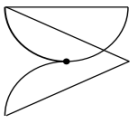
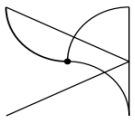
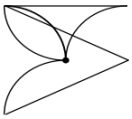
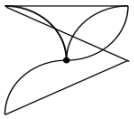


X = ? Y = ?

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

47)



A) 
B) 
C) 
D) 
E) 

48)

4 ☒ 3 ☒ 2 = 21
8 ☒ 3 ☒ 3 = 44
6 ☒ 2 ☒ 1 = 11
5 ☒ 4 ☒ 4 = ?

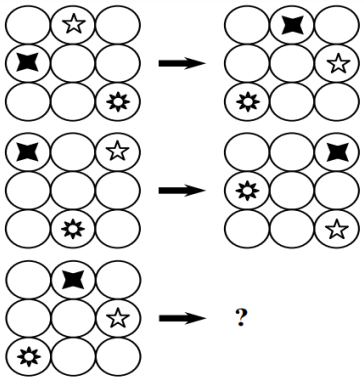
A) 78 B) 85 C) 62 D) 48 E) 54

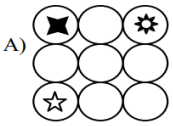
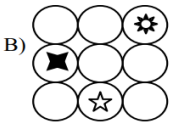
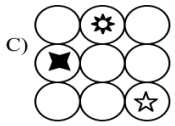
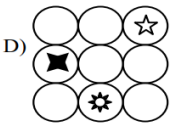
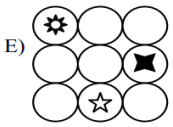
49)

Ⓟ 826 = 4
Ⓟ734 = 27
Ⓟ 210 = 1
Ⓟ 444 = ?

A) 1 B) 0 C) 4 D) 8 E) 64

50)



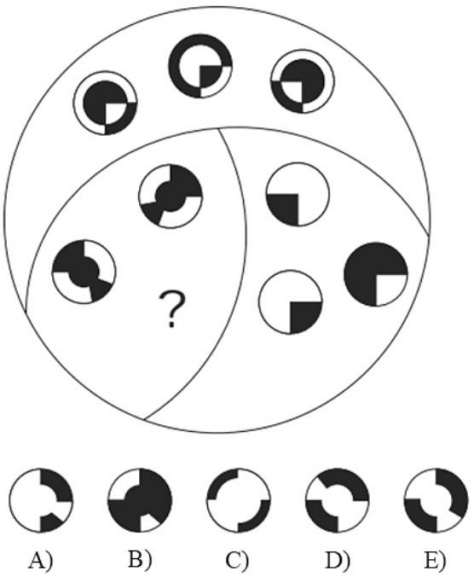
A) 
B) 
C) 
D) 
E) 

51)

3 ⌂ 3 = 45
2 ⌂ 5 = 331
4 ⌂ 1 = 56
6 ⌂ 2 = ?

A) 813 B) 169 C) 138 D) 244 E) 422

52)



53) 2 4 7 11 16 22 ?

A) 30 B) 26 C) 29 D) 31 E) 28

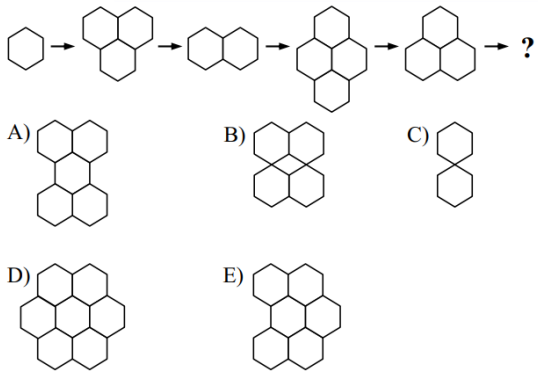
54) 18 21 7 4 12 15 5 2 ?

A) 6 B) 9 C) 12 D) 7 E) 5

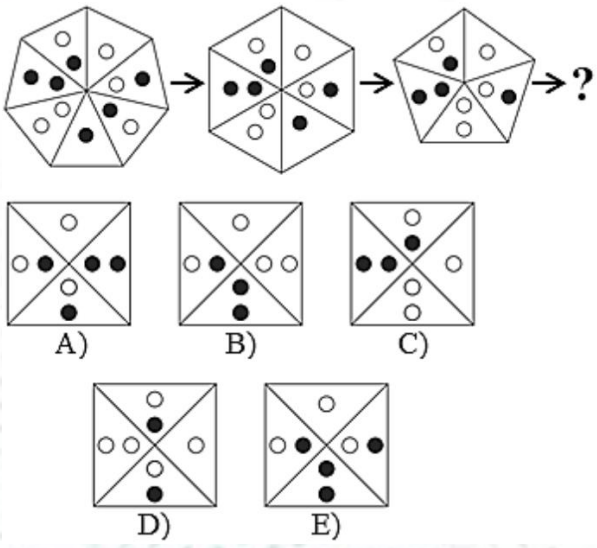
55) 1 22 2 21 4 19 7 16 11 12 16 ? ?

A) 13, 17 B) 8, 22 C) 7, 23
D) 7, 22 E) 9, 23

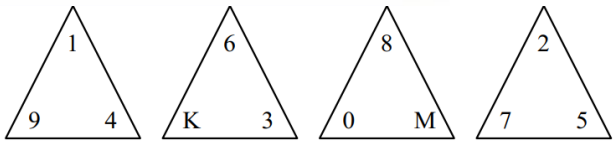
56)



57)



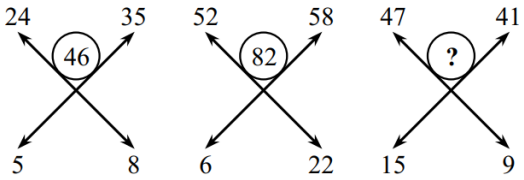
58)



K*M=?

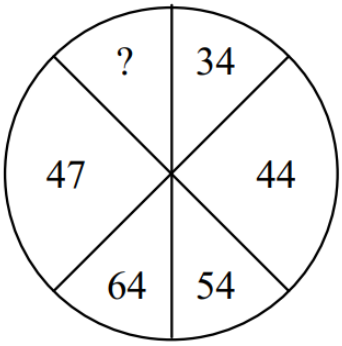
A) 20 B) 35 C) 12 D) 18 E)30

59)



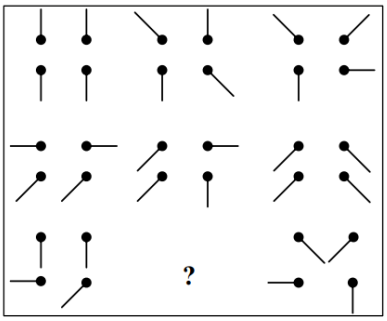
A) 64 B) 76 C) 80 D) 72 E) 68

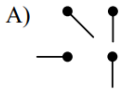
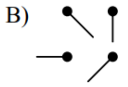
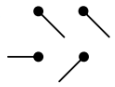
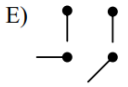
60)



A) 66 B) 74 C) 83 D) 64 E) 55

61)



A) 
B) 
C) 
D) 
E) 

62)

32 36 18 24 28 14 20 24 12 18 ? ? ?

A) 36, 18, 22 B) 24, 12, 16 C) 22, 11, 16
D) 22, 11, 17 E) 22, 10, 14

63)

×	*c*	*d*
a	20	
b		6

+	*c*	*d*
a		8
b	6	

$$a \cdot b + c \cdot d = ?$$

A) 22 B) 7 C) 14 D) 24 E) 12

64)

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

A=?

A) 8 B) 7 C) 9 D) 4 E) 5

65)

37	47	58	71
16	23	28	38
33	39	51	57
42	48	60	?

A) 14 B) 56 C) 42 D)55 E) 66

66)

⊙	2	5	9
3	11		
5	K	30	34
13	171		L

K + L = ?

A) 105 B) 205 C) 412 D) 32 E)110

67)

$$\begin{array}{r} K\ L\ M \\ +\ M\ K\ L \\ \hline 1\ 5\ 5\ 4 \end{array} \qquad \begin{array}{r} K \\ +\ L \\ \hline M \end{array} \qquad \begin{array}{r} L \\ +\ 1 \\ \hline K \end{array} \qquad M = ?$$

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

68)

$$\begin{array}{r} A\ B \\ C\ A \\ +\ B\ C \\ \hline 1\ 3\ 2 \end{array} \quad + \quad \begin{array}{r} C \\ B \\ B \\ \hline 1\ 1 \end{array} \qquad A-B=?$$

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

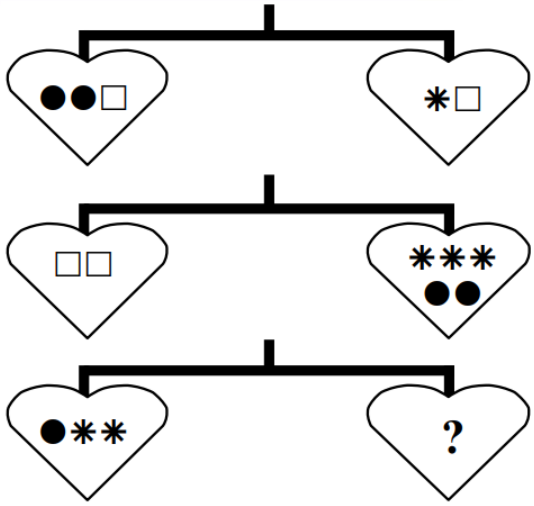
69)

$$\begin{array}{r} A\ B\ C \\ +\ K\ L\ M \\ \hline 5\ 7\ 9 \end{array} \qquad \begin{array}{r} A\ B\ C \\ -\ K\ L\ M \\ \hline 3\ 2\ 7 \end{array}$$

$A + B + C = ?$

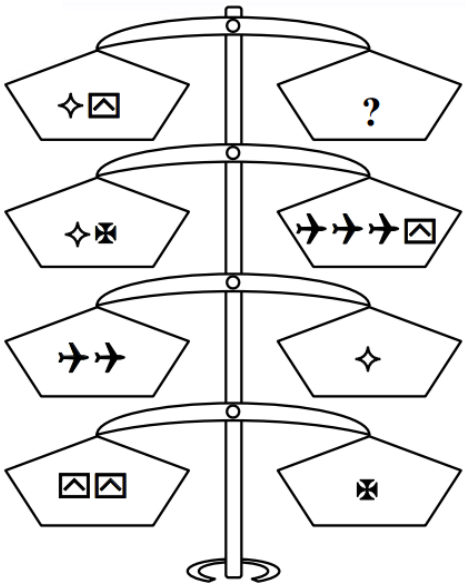
A) 10 B) 11 C) 12 D) 14 E) 15

70)



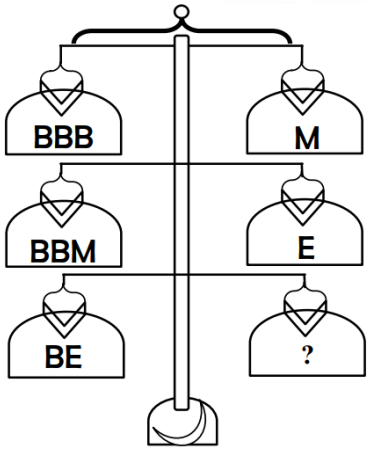
A) ●●●● B) □● C) ●●●
D) □✳ E) ●□✳

72)



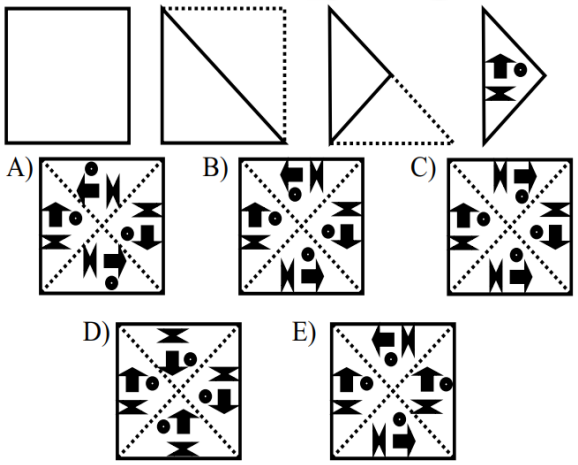
A) ✈🖂🖂 B) 🖂✈✠ C) ✠✠
D) ✧✧✈ E) ✠✠✧

71)

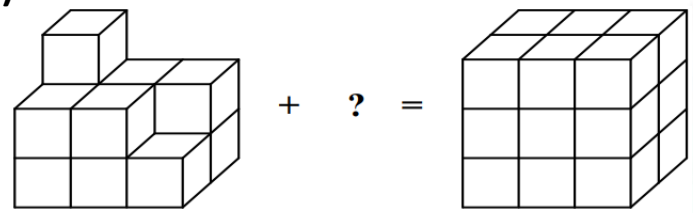


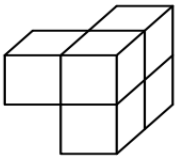
A) BMM B) MME C) MMM
D) BBBB E) BBBM

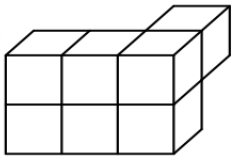
73)

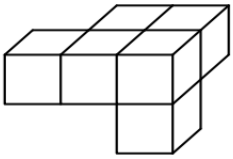


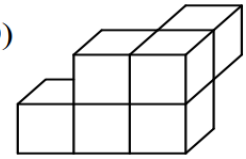
74)

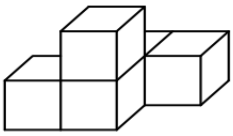


A) 

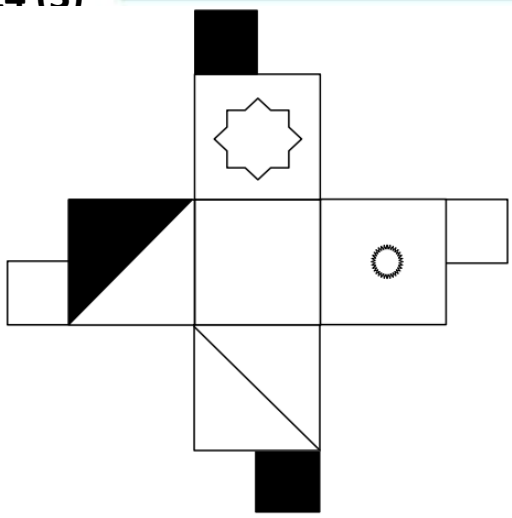
B) 

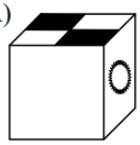
C) 

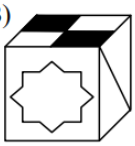
D) 

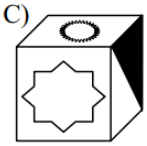
E) 

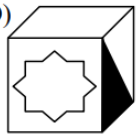
76)

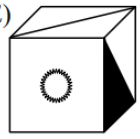


A) 

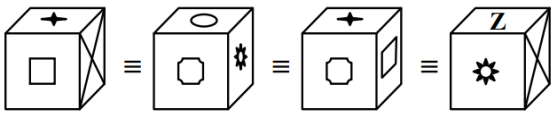
B) 

C) 

D) 

E) 

75)

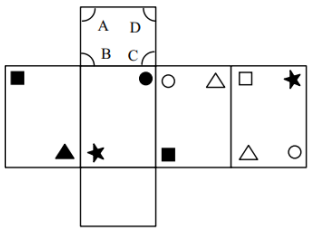


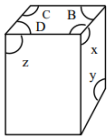
Z = ?

A) ⬡ B) ✦ C) ○ D) ✡ E) □

77) **X, y, z'yi sırayla tanımlayın**

Set x, y, z as consecutive



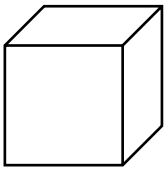


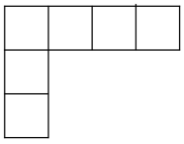
1. ○
2. ■
3. △
4. ▲
5. □
7. ★
8. ●

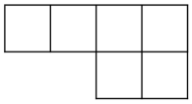
A) 1, 2, 7 B) 5, 2, 4 C) 7, 1, 3
D) 4, 3, 2 E) 2, 4, 5

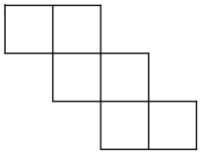
78) **Verilen küpün açılışı aşağıdakilerden hangisidir?**

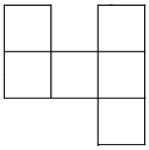
Which of the following is the opening of the given cup?

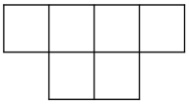


A) 

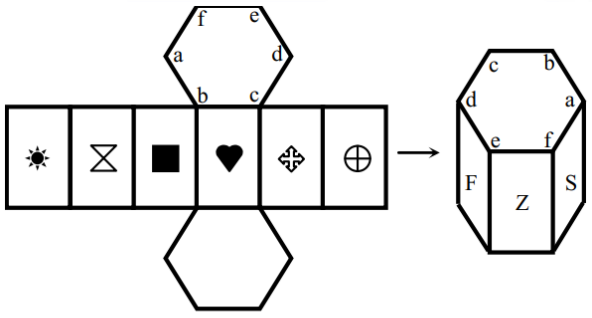
B) 

C) 

D) 

E) 

79)



F; Z; S = ?

A) ⊕ ☀ ⧖ B) ⧖ ☀ ⊕ C) ⧖ ♥ ⊕

D) ⊕ ○ ✥ E) ☀ ⊕ ⧖

80)

8	7	4	5
10	9	8	9
11	9	9	11
5	10	5	?

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

گزینه ۵، با همراهی اساتید به نام آزمون یوس ایران تشکیل شد. ما همه مولفین و اعضای تیم گزینه ۵ کنار شما هستیم تا یک جامعه آماری بزرگ با برنامه ریزی اصولی و هدفمند پله پله باعث ارتقای آموزش شما در آزمون یوس باشیم.

برای رسیدن به این هدف بسیار مصمم هستیم. به امید دیدن موفقیت تک تک شما عزیزان.