

2024/2

TR-YÖS

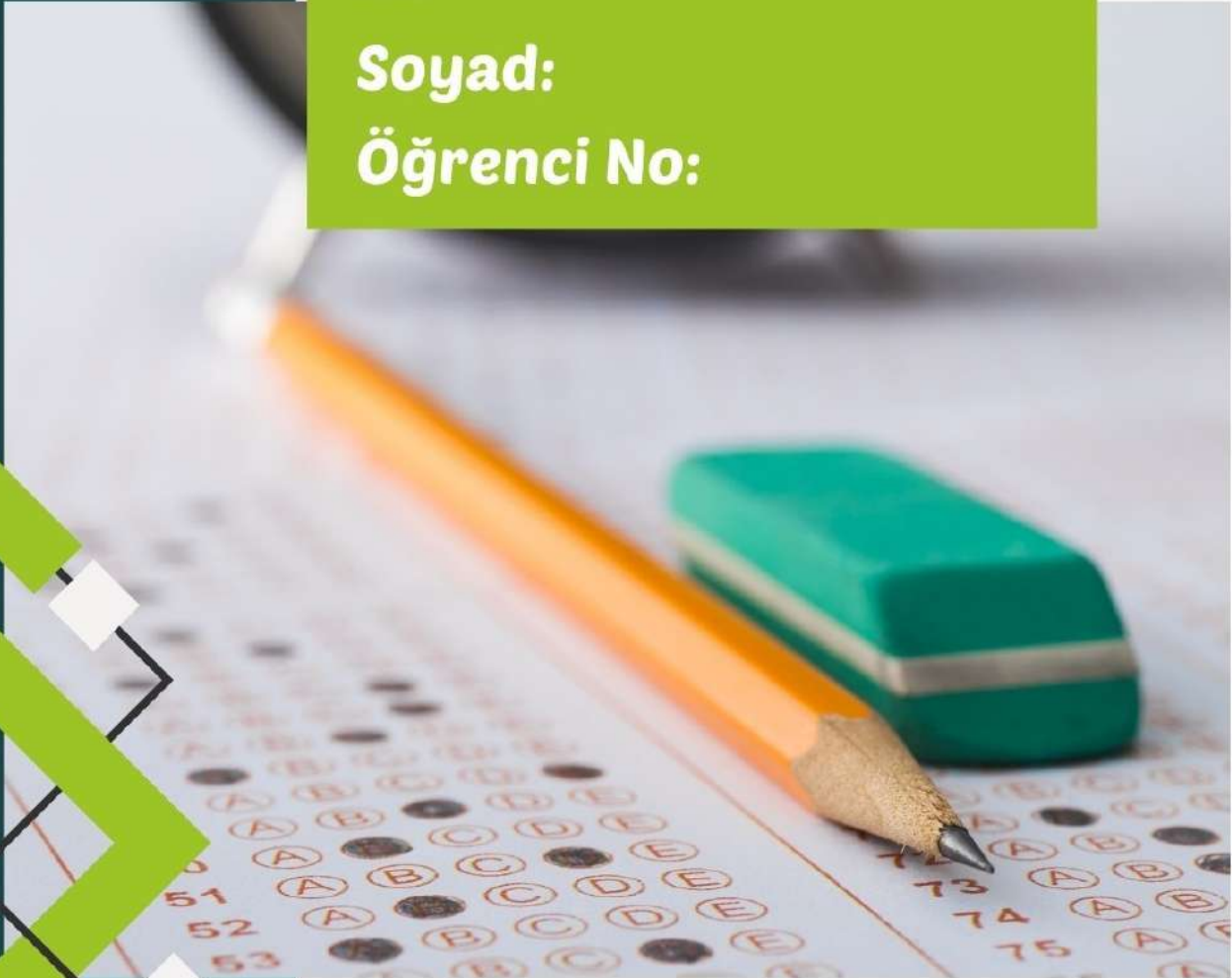
DENEME SINAVI

1

Ad:

Soyad:

Öğrenci No:



Bu sınav kitabçığında 80 soru bulunmaktadır.Süreniz 100 dakikadır.

- 1) S A K K İ
K İ P İ M
P O M T O P O M T O=?
T İ M İ S
M İ K O P
- A)75345 B)61713 C)28661
D)41312 E)31657

- 2) ABALI → 37616
SUSAM → 26454
BURSA → 64851
BASIM → 23461
MISAL → ?

Soru işareti (?) yerine aşağıdakilerden hangisi gelmelidir?

- A) 23467 B) 64237
C) 16732 D) 76432
E) 46732

IQ

- 3) ABCDEABCDEABCDEAB.....
şeklinde devam eden dizinin 152.nci
basamağı aşağıdakilerden hangisidir?

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

- 4) 2 7 23 72 220 665 2001

- A) 4002 B) 4010 C) 6010
D) 6060 E) 8020

IQ

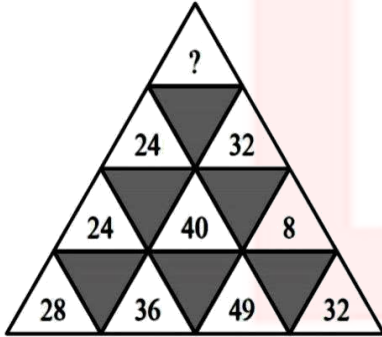
5) 10 8 13 11 21 19 ? 32 52

Soru işareti ile belirtilen yere hangi sayının geleceğini bulunuz.

Find the number which corresponds to the place indicated by the question mark.

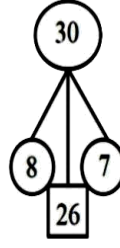
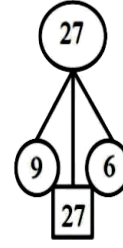
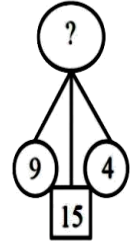
A) 20 B) 26 C) 28 D) 30 E) 34

6)

A) 30
D) 52B) 24
E) 28

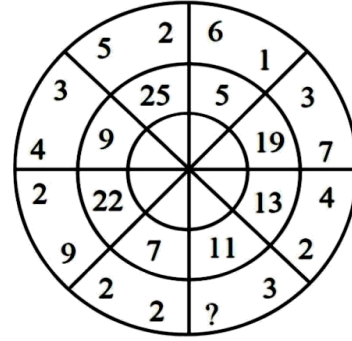
C) 60

7)

A) 21
D) 22B) 15
E) 35

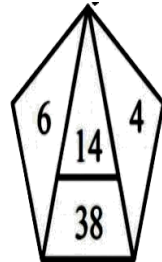
C) 36

8)

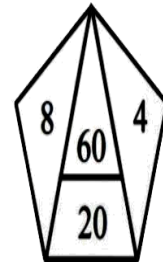
A) 7
D) 4B) 8
E) 6

C) 5

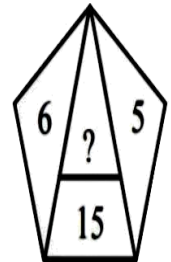
9)



A) 53



B) 19

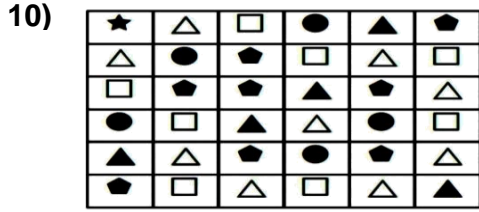


C) 31

D) 13

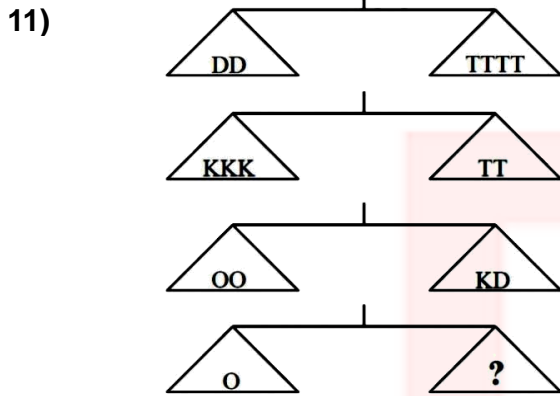
E) 46

IQ

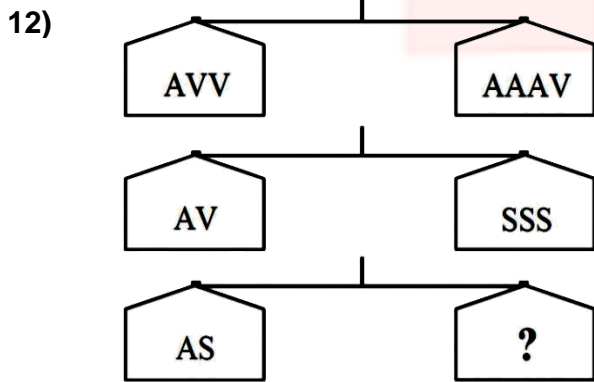


$\Rightarrow (\triangle \star \square) \star (\bullet \star \triangle) = ?$

- A) \triangle B) \square C) \bullet D) \blacktriangle E) \blacklozenge

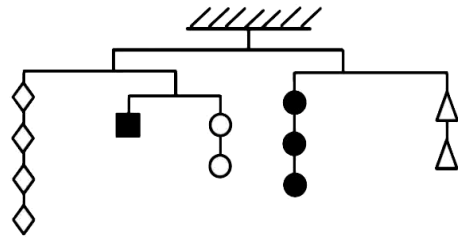


- A) DK B) D C) KK
D) TK E) DDT



- A) V B) S C) SV
D) VV E) SSS

13) $\blacklozenge = 3 \rightarrow \bigcirc + \bullet = ?$



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

14) $(V + F) \times G = ?$

$$\begin{array}{r}
 V \ 4 \ F \\
 \times \quad G \ F \\
 \hline
 7 \ G \ F \\
 + \quad G \ 9 \ 0 \\
 \hline
 3 \ 6 \ G \ 5
 \end{array}$$

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

IQ

15)

$$\begin{array}{r} ab \\ \times \\ \hline c \\ \hline 245 \end{array}$$

$$\begin{array}{r} ab \\ \times \\ \hline d \\ \hline 315 \end{array}$$

$$\begin{array}{r} ab \\ \times \\ \hline cd \\ \hline ? \end{array}$$

- A) 3834 B) 2762 C) 1854
D) 2765 E) 954

16)

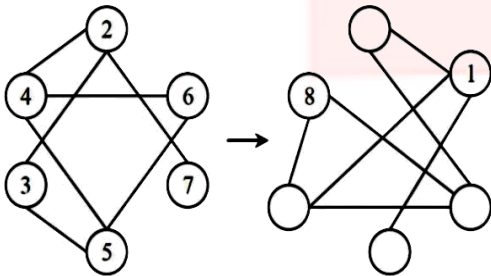
$$\begin{array}{r} X \mid 30 \\ - \quad \mid Y \\ \hline Y^2 \end{array}$$

$\max(X)=?$

- A) 150 B) 170
D) 125 E) 130

C) 175

17)

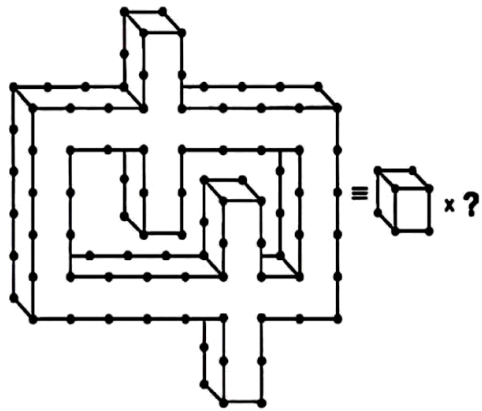


8 = ?

1 = ?

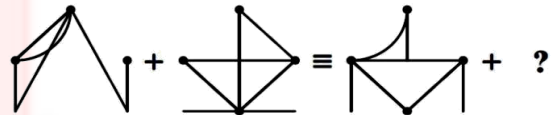
- A) 3; 4 B) 3; 5 C) 6; 5
D) 3; 2 E) 6; 2

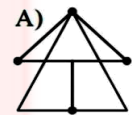
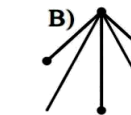
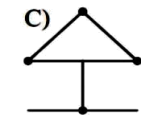
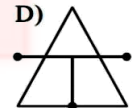
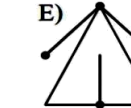
18)



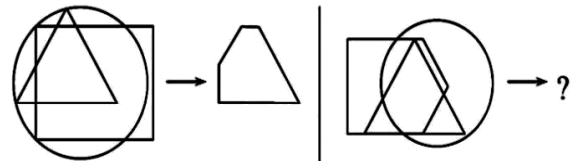
- A) 28 B) 29 C) 30 D) 31 E) 32


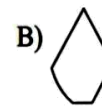
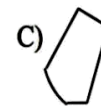


19)



- A)  B)  C) 
D)  E) 

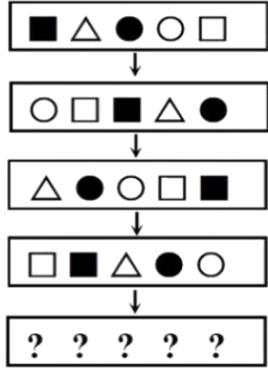
20)



- A)  B)  C) 
D)  E) 

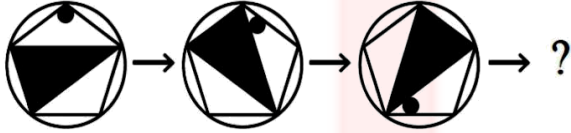
IQ

21)



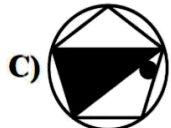




- A) ■ □ ○ ● △ D) ● ○ ■ □ △
 B) ○ □ ■ △ ● E) ● ○ □ ■ △
 C) ● △ ■ □ ○

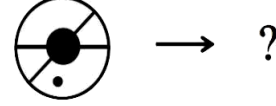
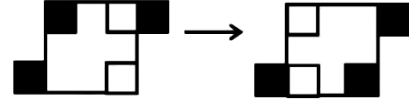
22)


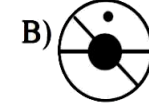
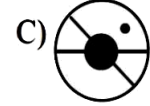

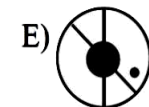


Soru işareti (?) yerine aşağıdakilerden hangisi gelmelidir?

- A)  B) 
 C)  D) 
 E) 

23)


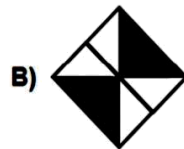
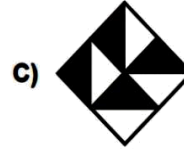




- A)  B)  C) 
 D)  E) 

24)

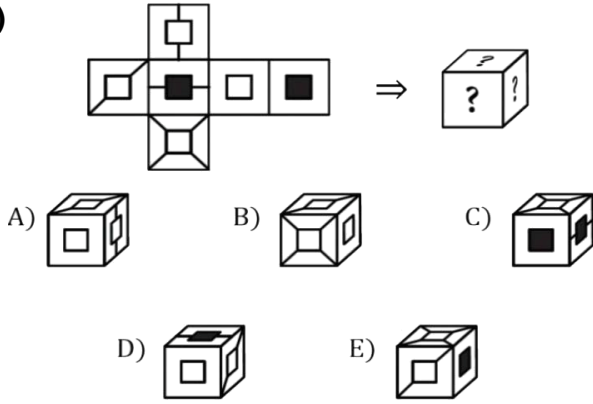


Yukarıdaki şekil saat yönünde 180° döndürülürse hangisi elde edilir?

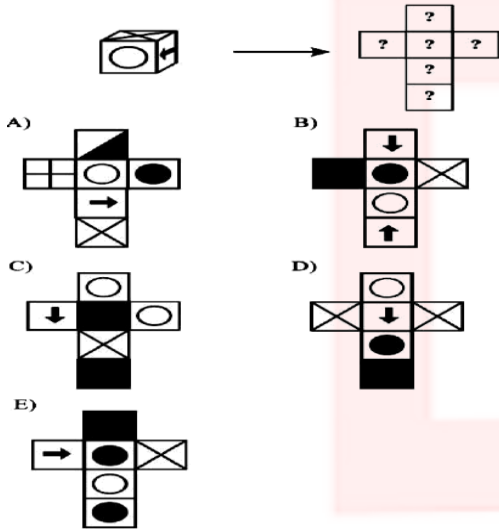
- A)  B) 
 C)  D) 
 E) 

IQ

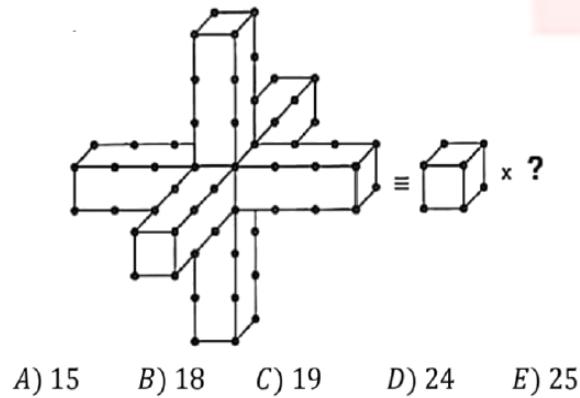
25)



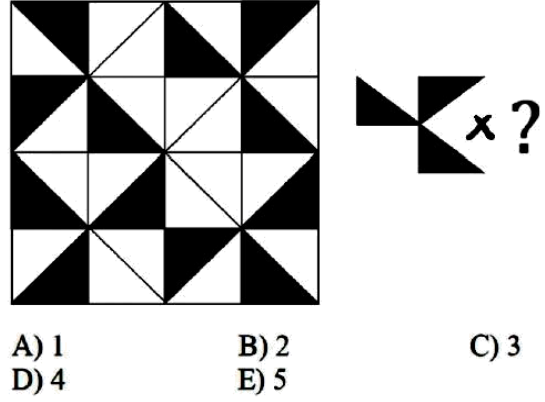
26)



27)

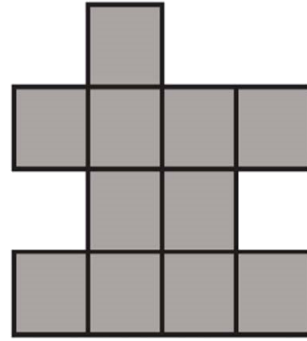


28)



29)

Aşağıdaki şekilde kaç tane dörtgen vardır?
How many quadrilaterals are there in the figure below?



A) 30 B) 33 C) 35 D) 36 E) 37

30)

1 ABC	2 DEF	3 GHI
4 JKL	5 MNO	6 PRS
7 TU	8 VY	9 Z

ENLZU → 2255444977
RYCNI → ?

A) 668551133 B) 668811555333
C) 7766111533 D) 668811155333
E) 68153

IQ

31)

	1	2	3	4	5
a	U	E	L	D	B
b	K	T	P	H	i
c	Ö	G	A	O	F
d	C	S	Z	R	V
e	Ü	N	I	Y	M

→ TARİF = ?

- A) a 1 b 2 c 3 d 4 e 5 B) a 2 b 3 c 4 b 5 d 1
 C) b 2 c 3 d 5 b 4 c 5 D) b 2 c 3 d 4 b 3 c 5
 E) b 2 c 3 d 4 b 5 c 5

32)

 $\sqrt{2}$ 2 4 16 32 ?

- A) 448 B) 728 C) 968
 D) 1024 E) 1172

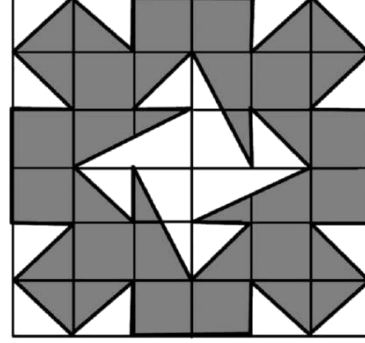
33)

3 11 20 84 109 ?

- A) 325 B) 218 C) 193
 D) 145 E) 158

34)

Taralı alanı kaçtır?



- A) 26 B) 27 C) 25 D) 24 E) 22

35)

2					?	
	7			4		3
			6	4	4	
					6	
3	5	6				
	5				7	
			5			2

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

36)

$$\begin{array}{r}
 K \ L \ M \ | \ N \ L \\
 - \ 8 \ 4 \ \ \ \ | \ M \ M \\
 \hline
 \ \ \ 8 \ M \\
 - \ 8 \ 4 \\
 \hline
 \ \ \ \ 3
 \end{array}$$

K+L+M=?

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

IQ

37)

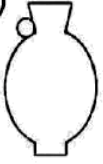
4	3	7	5	1
6	4	4	4	5
2	8	K	3	4
7	3	11	5	2
5	6	3	9	L

K+L=?

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

38) Aşağıdaki şekillerden hangisi diğerlerinden farklıdır?

A)



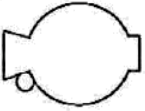
B)



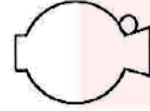
C)



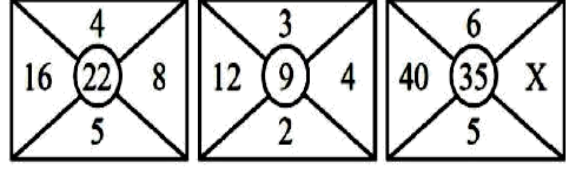
D)



E)



39)

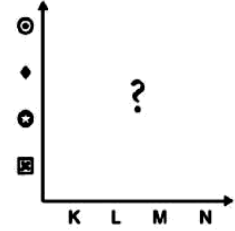


X=?

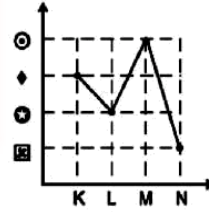
- A) 2 B) 4 C) 6 D) 8 E) 10

40)

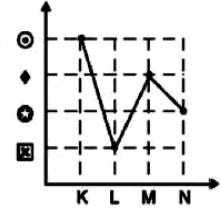
	K	L	M	N
⊙			✓	
◆	✓			
⊙				✓
■		✓		



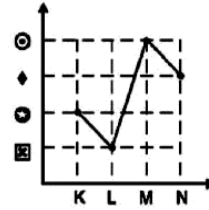
A)



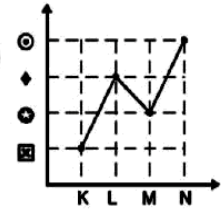
B)



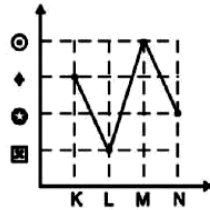
C)



D)

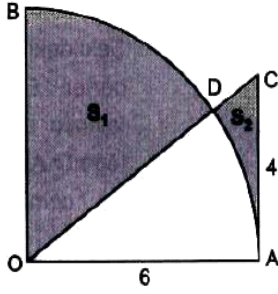


E)



GEO

41)



AC, çeyrek daireye
teğettir.

O, D, C doğrusal

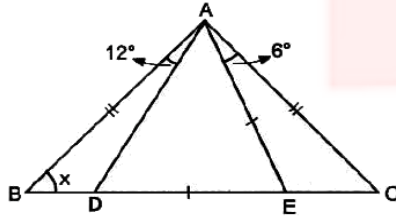
$|OA| = 6$ cm

$|AC| = 4$ cm

S_1 ve S_2 içinde buldukları bölgelerin alanları
olduğuna göre, $S_1 - S_2$ kaç cm^2 dir?

- A) $9\pi - 12$ B) $9\pi - 6$ C) $9\pi - 4$
D) $6\pi - 12$ E) $6\pi - 6$

42)



ABC üçgeninde

$m(\widehat{BAD}) = 12^\circ$

$m(\widehat{EAC}) = 6^\circ$

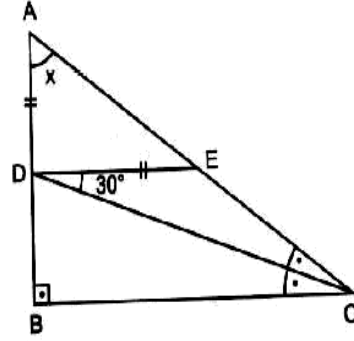
$|AB| = |AC|$

$|AE| = |DE|$

Yukarıda verilenlere göre, $m(\widehat{ABC}) = x$ kaç derecedir?

- A) 45 B) 50 C) 55 D) 60 E) 65

43)



ABC dik üçgen

CD açıortay

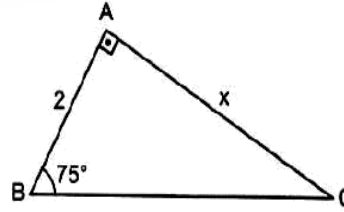
$m(\widehat{CDE}) = 30^\circ$

$|AD| = |DE|$

olduğuna göre,
 $m(\widehat{BAC}) = x$ kaç
derecedir?

- A) 70 B) 65 C) 60 D) 55 E) 50

44)



ABC dik üçgen

$m(\widehat{ABC}) = 75^\circ$

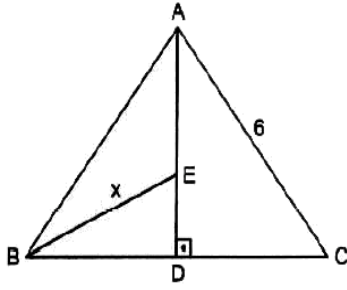
$|AB| = 2$ cm

Yukarıdaki verilenlere göre, $|AC| = x$ kaç cm dir?

- A) $1 + 2\sqrt{3}$ B) $2 + \sqrt{3}$ C) $4 + 2\sqrt{3}$
D) $2 + 2\sqrt{3}$ E) $4\sqrt{3} - 2$

GEO

45)

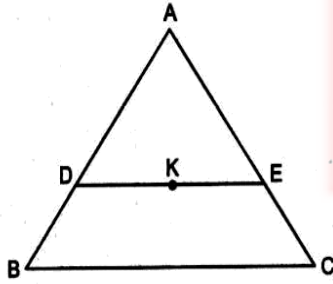


ABC eşkenar üçgen
 $AD \perp BC$
 $|AE| = 2 \cdot |ED|$
 $|AC| = 6$ birim

Yukarıda verilenlere göre, $|BE| = x$ kaç birimdir?

- A) $2\sqrt{3}$ B) $\sqrt{15}$ C) 4 D) $3\sqrt{2}$ E) $2\sqrt{5}$

46)

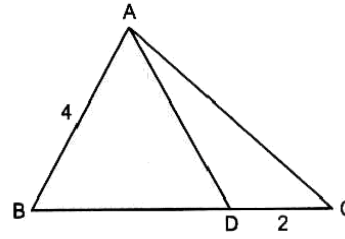


K noktası, ABC üçgeninin iç teğet çemberinin merkezidir.
 $DE \parallel BC$
 $|AB| = 10$ cm
 $|AC| = 14$ cm

Yukarıda verilenlere göre, Çevre(ADE) kaç cm dir?

- A) 25 B) 24 C) 22 D) 20 E) 18

47)

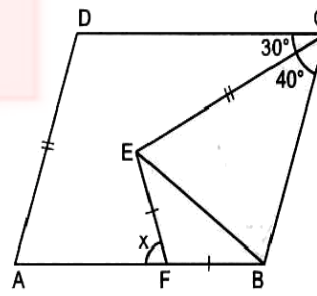


ABD eşkenar üçgen
 ABC üçgen
 $|AB| = 4$ cm
 $|CD| = 2$ cm

Yukarıda verilenlere göre, A(ABC) kaç cm^2 dir?

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

48)



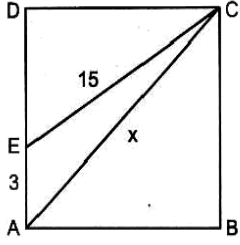
ABCD paralelkenar
 $m(\widehat{DCE}) = 30^\circ$
 $m(\widehat{ECB}) = 40^\circ$
 $|EC| = |AD|$
 $|EF| = |BF|$

Yukarıda verilenlere göre, $m(\widehat{AFE}) = x$ kaç derecedir?

- A) 60 B) 65 C) 70 D) 75 E) 80

GEO

49)



ABCD kare
 $|AE| = 3$ cm
 $|EC| = 15$ cm

Yukarıda verilenlere göre, $|AC| = x$ kaç cm dir?

- A) 16 B) $12\sqrt{2}$ C) $10\sqrt{3}$ D) 18 E) $16\sqrt{2}$

50) $\vec{A} + \vec{B} = (5, 2)$

$$|\vec{A}|^2 + |\vec{B}|^2 = 13$$
$$\Rightarrow \langle \vec{A}, \vec{B} \rangle = ?$$

- A) 2 B) 3 C) 5 D) 7 E) 8

MATEMATİK

51) a, b, c pozitif tam sayılar ve $\frac{a-8b}{4} = c$ dir.

Buna göre, aşağıdakilerden hangisi daima doğrudur?

- A) b çift sayıdır
 B) a tek sayıdır
 C) c çift sayıdır
 D) b tek sayıdır
 E) a çift sayıdır

52)
$$\begin{array}{r} a+1 \quad | \quad 13 \\ \hline \quad \quad | \quad c+4 \\ \hline \quad \quad | \quad c^3 \end{array}$$
 Yandaki bölme işleminde a ve c birer doğal sayıdır.

c nin alabileceği en büyük tam sayı değeri için a değeri kaçtır?

- A) 83 B) 84 C) 85 D) 86 E) 87

53) x ve y tam sayıları için $3x + 4y = 21$ olduğuna göre,

- I. x tektir.
 II. y sayısı x sayısından büyüktür.
 III. $x + y$ pozitiftir.

İfadelerinden hangileri daima doğrudur?

- A) Yalnız I B) Yalnız II C) Yalnız III
 D) I ve II E) I ve III

54) $4^3 + 6^3 + 8^3$ sayısının asal olmayan tam sayı bölenlerinin sayısı kaçtır?

- A) 45 B) 42 C) 40 D) 36 E) 32

MATEMATİK

55) $\frac{4x-5}{3x+1}$ kesrinin pozitif basit kesir olabilmesi için x yerine kaç tane doğal sayı yazılabilir?

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

56) $8+x = \frac{2y+1}{y-2}$ eşitliğinde x in hangi değeri için y hesaplanamaz?

- A) $\frac{11}{3}$ B) 2 C) -2 D) -6 E) -8

57) a, b ve c sıfırdan farklı gerçekte sayılar olmak üzere

$$\frac{x-4}{a} = \frac{3x+c}{b} \text{ denkleminde ilgili}$$

- I. $a = b$ için denkleminin çözüm kümesi bir elemanlıdır.
 II. $b = 3a$ için denklemin çözüm kümesi boş kümedir.
 III. $a = 2, b = 3, c = 6$ için çözüm kümesi $\{-8\}$ dir.

İfadelerinden hangileri her zaman doğrudur?

- A) Yalnız I B) Yalnız II C) Yalnız III
 D) I ve III E) I, II ve III

58) $|x-2| + |x^2-4x-5| + |x+3| = 0$

denkleminin çözüm kümesi kaç elemanlıdır?

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

MATEMATİK

59) a, b ve c negatif tam sayılardır.

$$\bullet \frac{1}{a} > \frac{1}{c} > \frac{1}{b}$$

$$\bullet |a - b| - |b - c| - |c - a|$$

ifadesinin eşiti aşağıdakilerden hangisidir?

- A) $4 \cdot (c - a)$ B) $2 \cdot (b - a)$ C) $a - b$
 D) 0 E) $c - a$

60) $x.z > y.z$ ve $x - z < y - z$

olduğuna göre, aşağıdakilerden hangisi daima doğrudur?

- A) $x > y$ B) $x > 0 > y$ C) $z \cdot x < 0$
 D) $y \cdot z > 0$ E) $z < 0$

61) $x = 2 + a^{-n}$, $y = 2 - a^n$ olduğuna göre,

y nin x türünden eşiti aşağıdakilerden hangisidir?

A) $\frac{6+2x}{2+x}$ B) $\frac{2x-5}{x-2}$ C) $\frac{2x-6}{x+2}$

D) $\frac{-2x-6}{x+2}$ E) $\frac{2x+6}{x-2}$

62) A, B ⊂ D

$$D = \{1, 2, 3, 4, 5, 6, 7\}$$

$$A' \cap B' = \{1, 2\}$$

$$B \cap A' = \{3, 4, 6\}$$

$$\Rightarrow A = ?$$

- A) {4, 6} B) {5, 7} C) {1, 2, 4, 6}
 D) {4, 5, 6} E) {1, 3, 5}

MATEMATİK

63) $x, y, z, t \in \mathbb{Z}^+$ ve

$$\frac{x}{y} : \frac{2}{3} = z$$

$$\frac{y}{x} : \frac{5}{7} = \frac{1}{t}$$

olduğuna göre, $z + t$ toplamının alabileceği **en küçük** değer kaçtır?

- A) 33 B) 32 C) 31 D) 27 E) 23

64) $\frac{a}{b} = \frac{c}{d}$, $a^3 - b^3 = 125$

$$\text{ve } c^3 - d^3 = 64$$

olduğuna göre, $\frac{b}{d}$ oranı kaçtır?

- A) 1 B) $\frac{4}{3}$ C) $\frac{5}{4}$ D) $\frac{7}{5}$ E) $\frac{9}{7}$

65) $x \cdot y = -6$ $x(x - 2y - 4) = 8$

$$\rightarrow x + y = ?$$

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

66) $\frac{a^{12} - 1}{a^8 + a^4 + 1} = ?$

- A) a^2 B) $a^2 - 1$ C) a^4 D) $a^4 - 1$ E) $a^3 + 1$

67) • $x \in [-2, 5] \setminus \{4\}$

$$\bullet A = |x + 3| + x - 11$$

$$\bullet B = |x - 6| + 4x - 18$$

Yukarıda verilenlere göre, $\frac{A}{B} = \frac{x}{x + 0,6}$ eşitliğini sağlayan x değeri kaçtır?

- A) 1 B) 1,1 C) 1,2 D) 1,6 E) 1,8

MATEMATİK

68) $x^3 \cdot y^5 \cdot z^8 < 0$

$x^2 \cdot y^7 < 0$

$x \cdot y \cdot z^7 > 0$

olduğuna göre, x, y ve z gerçel sayılarının işaretleri sırasıyla aşağıdakilerden hangisinde doğru verilmiştir?

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

69) $f: \mathbb{R} \setminus \{1\} \rightarrow \mathbb{R} \setminus \{-2\}$

$$f(x) = \frac{2 - ax}{3x + b}$$

$\Rightarrow a \cdot b = ?$

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

70) $\frac{27^a - 1}{9^a + 3^a + 1}$ ifadesinin değeri $2 \cdot (1 + 3 + \dots + 3^8)$

ifadesinin değerine eşit olduğuna göre, a kaçtır?

- A) 5 B) 7 C) 8 D) 9 E) 10

71) e: etkisiz eleman (identity element)

$x \bullet y = 4x + 4y + 3xy + 4$

$\Rightarrow e = ?$

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

72) $x = \sqrt{3} - \sqrt{2} + 1$

$y = \sqrt{3} + \sqrt{2} + 1$

olduğuna göre, $\frac{x \cdot y}{x - y}$ oranı kaçtır?

- A) $\frac{-\sqrt{6} - \sqrt{2}}{2}$ B) $\frac{\sqrt{6} - \sqrt{2}}{2}$ C) $\frac{\sqrt{3} - \sqrt{2}}{2}$
 D) $\frac{\sqrt{3} + \sqrt{2}}{2}$ E) $2\sqrt{3} - \sqrt{2}$

MATEMATİK

73) $162^{130} \equiv x \pmod{6}$

$\Rightarrow x = ?$

- A) 5 B) 4 C) 3 D) 0 E) -4

75) $P(x) = x^2 - 4x + m + 2$

$P(x_1) = P(x_2) = 0$

$x_1 = x_2$

$\Rightarrow P(m) = ?$

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

74)

$$\begin{array}{r} P(x) \mid x+1 \\ \hline 0 \end{array} \quad \begin{array}{r} P(3x+8) \mid Q(x) \\ \hline 0 \end{array}$$

$\Rightarrow Q(x) = ?$

- A)
- $x+1$
- B)
- $x+2$
- C)
- $x+3$
-
- D)
- $x-2$
- E)
- $x-3$

76) $(555)_8 - (444)_5 = (x)_4 \Rightarrow x = ?$

- A) 1213 B) 1123 C) 2113
-
- D) 1113 E) 1223

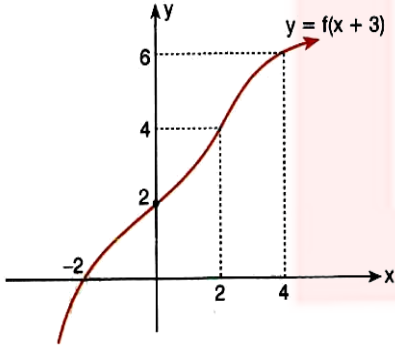
MATEMATİK

77) $f(x) = 2^{x+2}$

 $f(2x + 3)$ ün $f(x)$ türünden değeri nedir?What is the value of $f(2x + 3)$ in terms of $f(x)$?

- A) $3f^2(x)$ B) $2f^3(x)$ C) $2f^2(x)$
 D) $3f(x)$ E) $2f(x)$

78)



$$\Rightarrow \frac{f^{-1}(6) + f^{-1}(4)}{f(1) + f(3)} = ?$$

- A) 3 B) 4 C) 6 D) 7 E) $\frac{15}{2}$

79) $\frac{x^y - 1}{x^{-y} - 1} : x^y$

işleminin sonucu aşağıdakilerden hangisidir?

- A) $-x^y$ B) $-x^{-y}$ C) x^{-y}
 D) 1 E) -1

80) $x, y \in \mathbb{R}$ olmak üzere,

$$\left(\frac{3}{4}\right)^{\frac{x^2-4x+3}{y+1}} = \left(\frac{1}{7}\right)^{\frac{y^2+3y+2}{x-3}}$$

olduğuna göre, $x + y$ toplamı kaçtır?

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



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