

ÇÖZÜMLER

1.

1.

11.

$$\left. \begin{array}{l} \text{PAKS} \\ \text{AKAR} \\ \text{SAKi} \\ \text{SAiK} \\ \text{KiRA} \end{array} \right\} \Rightarrow \left\{ \begin{array}{l} 4685 \\ 5458 \\ 7546 \\ 8547 \\ 7564 \end{array} \right.$$
$$S = 7$$
$$S = 7 \Rightarrow \text{RAKS} = 8547$$
$$R = 8 \Rightarrow AKAR = 5458$$
$$K = 4 \Rightarrow \text{SA } \underline{i} \text{ } K = 7564$$
$$A = 5 \text{ ve } \underline{i} = 6$$
$$\Rightarrow \text{K A R I S} = 45867$$

Cevap: C

2.

■ = E

⇒ ★ △ ▲ ■ ◇ = ?

E

..... $\Rightarrow$ K A B J E C

Cevap: C

3.

$$\underbrace{[(\square \otimes \star) \otimes (\times \otimes \bullet)]}_{\mathbf{x}} \otimes \underbrace{(\square \otimes \blacktriangle)}_{\bullet}$$

$(\times \otimes \times) \otimes \bullet$

   = 

Cevap: A

4.

I.  $\Rightarrow \sqrt{3^2 + 6^2 + 4^1} = 7$

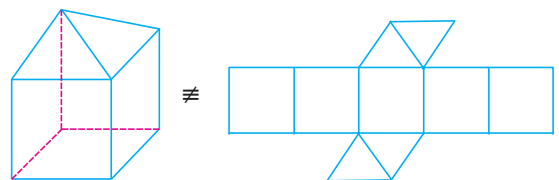
II.



$$\Rightarrow \sqrt{3^4 + 3^1 + 4^2}$$
$$= \sqrt{81 + 3 + 16}$$
$$= 10$$

Cevap: C

5.



Cevap: D

6.

+20 dk +40 dk +80 dk +160 dk
 I. II. III. IV. V.

 9 : 40 ? 10 : 40 12 : 00 14 : 40

$$9:40 + 20 = 10:00$$

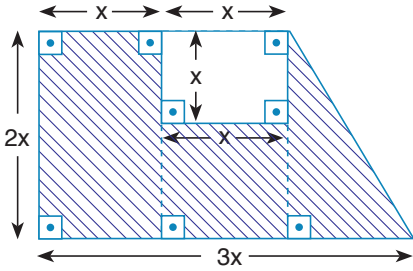
Cevap: A

7.

I.	1	0	1	→ sayısı
II.	1	1	0	→ sayısı
III.	0	3	2	→ sayısı
IV.	1	1	1	→ sayısı

Cevap: B

8.



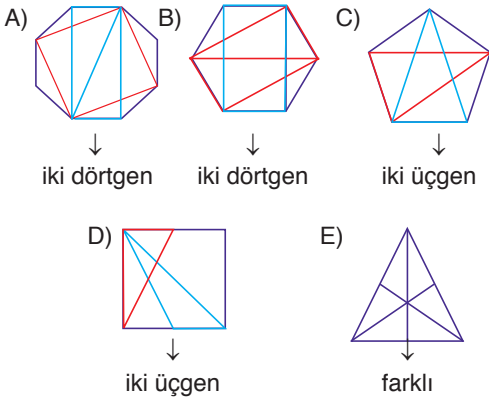
A = Yamuğun alanı - Karenin Alanı

$$= \frac{3x + 2x}{2} \cdot 2x - x \cdot x$$

$$= \frac{5x}{2} \cdot 2x - x^2 = 5x^2 - x^2 = 4x^2$$

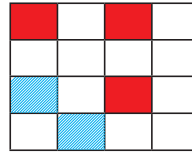
Cevap: D

9.

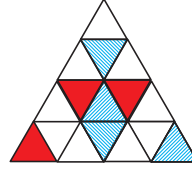


Cevap: E

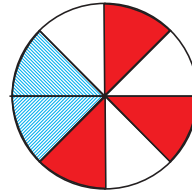
10.



$$\rightarrow \frac{11^2 - 3^3 + 2^2}{16 - (11 + 2 - 3)} = \frac{49}{3}$$



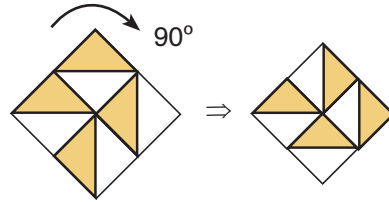
$$\rightarrow \frac{35}{3} = \frac{9^2 - 3^3 + 4^2}{16 - (9 - 3 + 4)}$$



$$\rightarrow \frac{3^2 - 3^3 + 2^2}{8 - (3 - 3 + 2)} = \frac{-14}{6} = \frac{-7}{3}$$

Cevap: A

11.



Cevap: B

12.

$$I. 8 \oplus 7 = 41 = 8 \cdot 7 - (8 + 7)$$

$$II. 9 \oplus 5 = 31 = 9 \cdot 5 - (9 + 5)$$

$$III. 4 \oplus 6 = 14 = 4 \cdot 6 - (4 + 6)$$

$$IV. 5 \oplus 4 = 5 \cdot 4 - (5 + 4) = 11$$

Cevap: A

13.

$$I. 92 \blacktriangle 84 = 11 = 9 + 8 - (2 + 4)$$

$$II. 75 \blacktriangle 61 = 7 = 7 + 6 - (5 + 1)$$

$$III. 83 \blacktriangle 72 = 10 = 8 + 7 - (3 + 2)$$

$$IV. 30 \blacktriangle 93 = 9 = 3 + 9 - (0 + 3)$$

Cevap: D

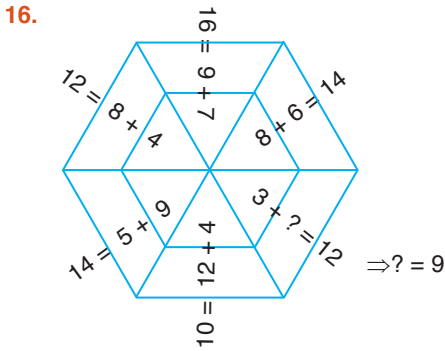
14. I. $24 \rightarrow (2 + 4)^2 = 36 \rightarrow 63$
 II. $17 \rightarrow (1 + 7)^2 = 46$
 III. $232 \rightarrow (2 + 3 + 2)^2 = 49 \rightarrow 94$
 IV. $12132 \rightarrow (1 + 2 + 1 + 3 + 2)^2 = 81 \rightarrow 18$

Cevap: A

15. I. $6 \Delta 3 = \frac{1}{6} = \frac{6-3}{6 \cdot 3} = \frac{3}{18} = \frac{1}{6}$
 II. $9 \Delta 4 = \frac{5}{36} = \frac{9-4}{9 \cdot 4} = \frac{5}{36}$
 III. $7 \Delta 4 = \frac{3}{28} = \frac{7-4}{7 \cdot 4} = \frac{3}{28}$

$$\text{IV. } \frac{1}{a} \Delta b = \frac{\frac{1}{a} - b}{\frac{1}{a} \cdot b} = \frac{\frac{1-ab}{a}}{\frac{b}{a}} = \frac{1-ab}{a} \cdot \frac{a}{b} = \frac{1-ab}{b}$$

Cevap: E

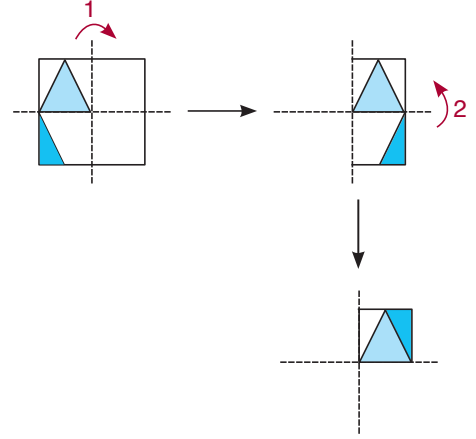


Cevap: C

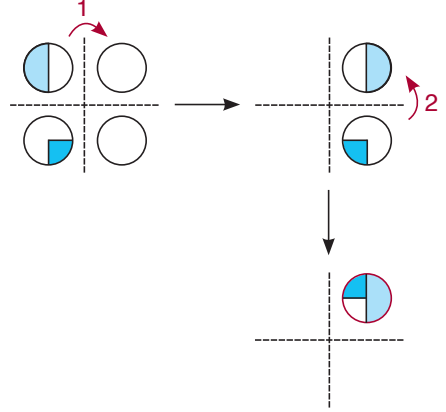
17. I. $(6 \div 3)^2 = 4$
 II. $(24 \div 4)^2 = 36$
 III. $(27 \div 9)^2 = 9$
 IV. $(? \div 25)^2 = 25$
 $\Rightarrow ? \div 25 = 5$
 $? = 125$

Cevap: B

18. I.

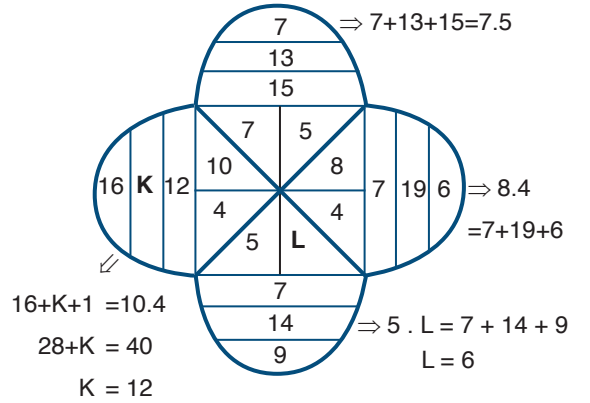


- II.



Cevap: A

- 19.



Cevap: B

20.

+	a	b	c
a	c		
b		a+c	
c			32

$$\Rightarrow 2b = a + c$$

$$2b = 8 + 16$$

$$b = 12$$

$$\Rightarrow 2c = 32$$

$$c = 16$$

$$\Rightarrow \frac{a+c}{b} = \frac{8+16}{12} = 2$$

Cevap: D

21.

$$4 \star 3 = 4 + 2 \cdot 3 = 10$$

$$7 \star 8 = 7 + 2 \cdot 8 = 23$$

$$10 \star 5 = 10 + 2 \cdot 5 = 20$$

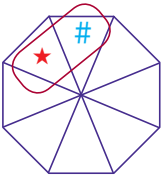
$$7 \star 5 = 7 + 2 \cdot 5 = 17 = L$$

$$4 \star 8 = 4 + 2 \cdot 8 = 20 = K$$

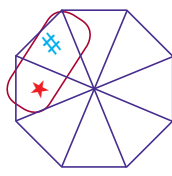
$$10 \star 3 = 10 + 2 \cdot 3 = 16 = M$$

Cevap: E

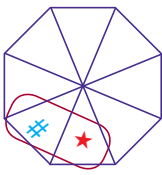
22. A)



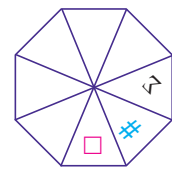
B)



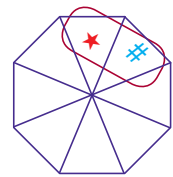
C)



D)

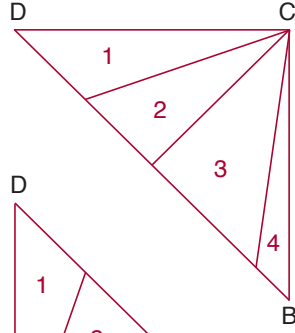


E)

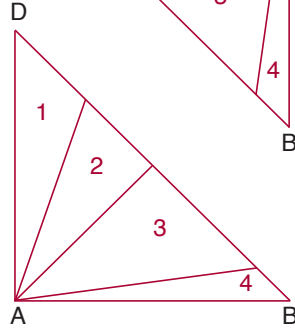


Cevap: D

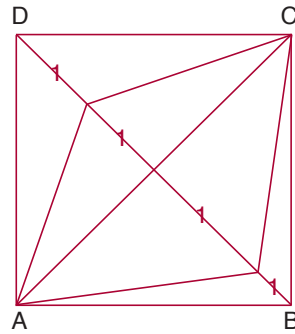
23.



$$\rightarrow 1 + 2 + 3 + 4 = 10$$



$$\rightarrow 1 + 2 + 3 + 4 = 10$$



$$\rightarrow 1 + 1 + 1 + 1 = 4$$

$$\begin{array}{r} + \\ 24 \\ \hline \end{array}$$

tane üçgen vardır.

Cevap: C

24.

●	a	b	c	d	e
a	c	d	e	c	b
b	d	b	a	a	c
c	e	a	d	b	a
d	c	a	b	e	b
e	b	c	a	b	a

$$[(a \bullet b) \bullet (e \bullet c)] \bullet d = [d \bullet a] \quad d = \frac{c \bullet d}{b}$$

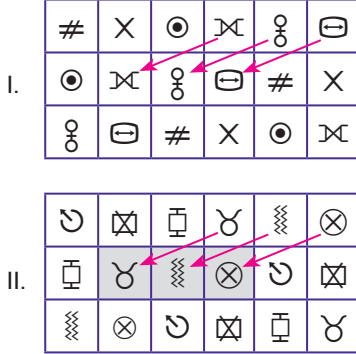
Cevap: B

25. 1:20 $\Rightarrow$ saat = 1 ve dakika = 20

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.20 - 60.1|}{2} = \frac{|220 - 60|}{2} = 80^\circ$$

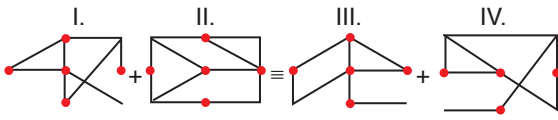
Cevap: E

26.



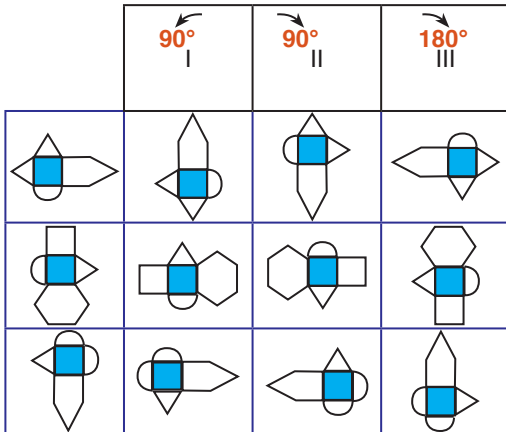
Cevap: B

27.



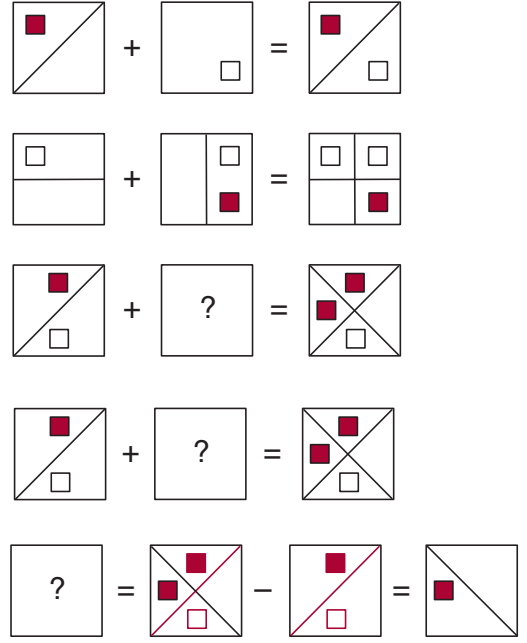
Cevap: A

28.



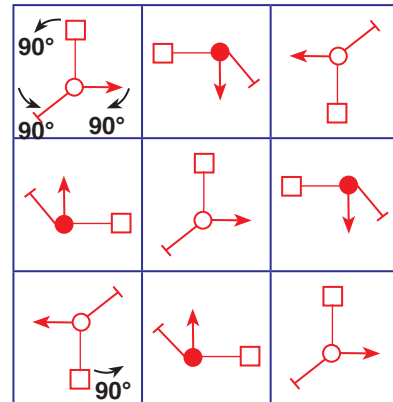
Cevap: A

29.



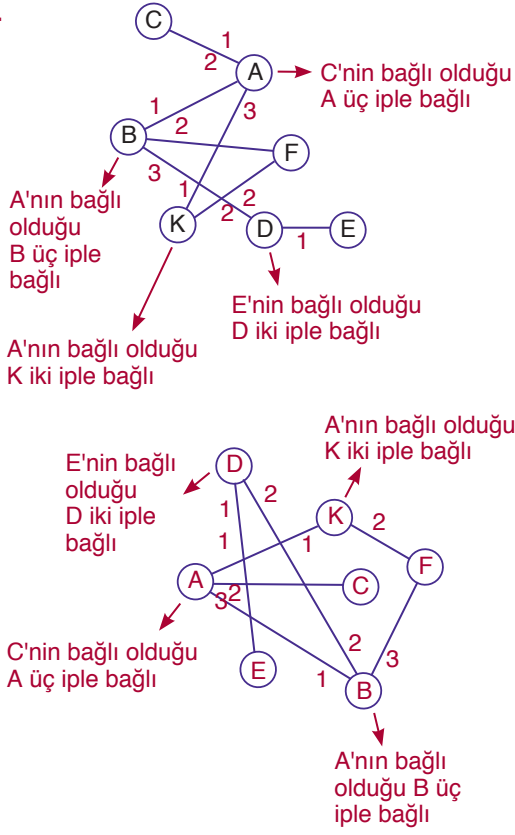
Cevap: E

30.



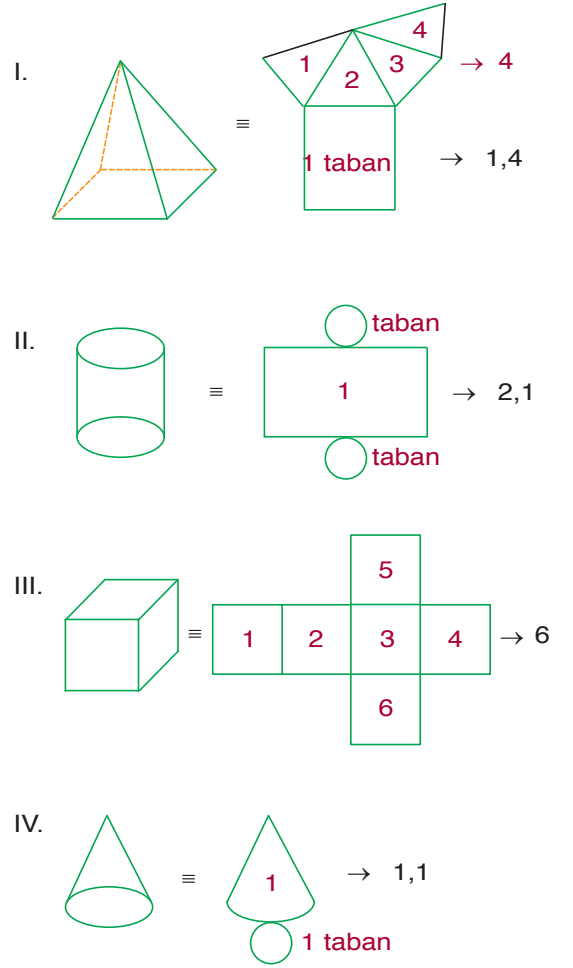
Cevap: A

31.

O halde $x = D$, $y = F$

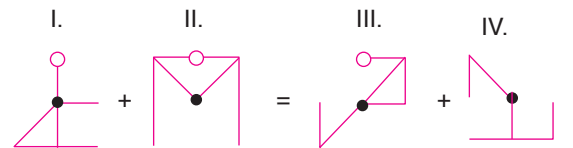
Cevap: B

32.



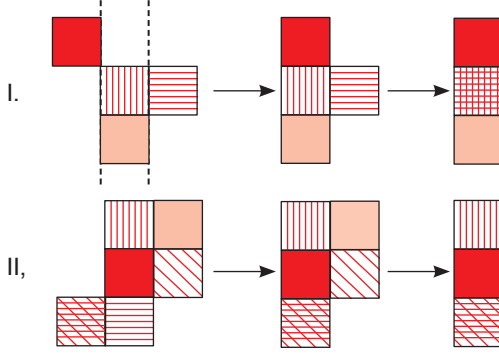
Cevap: E

33.



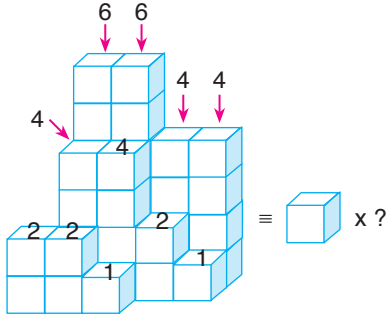
Cevap: C

34.



Cevap: A

35.

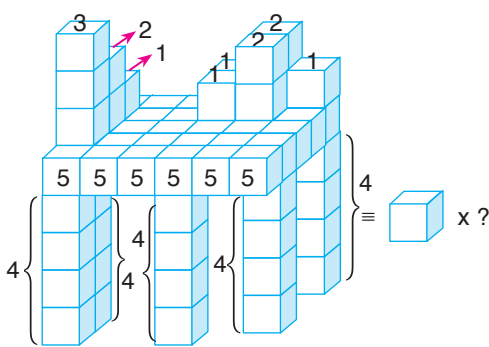


$$2.6 + 4.4 + 3.2 + 2.1$$

$$12 + 16 + 6 + 2 = 36$$

Cevap: D

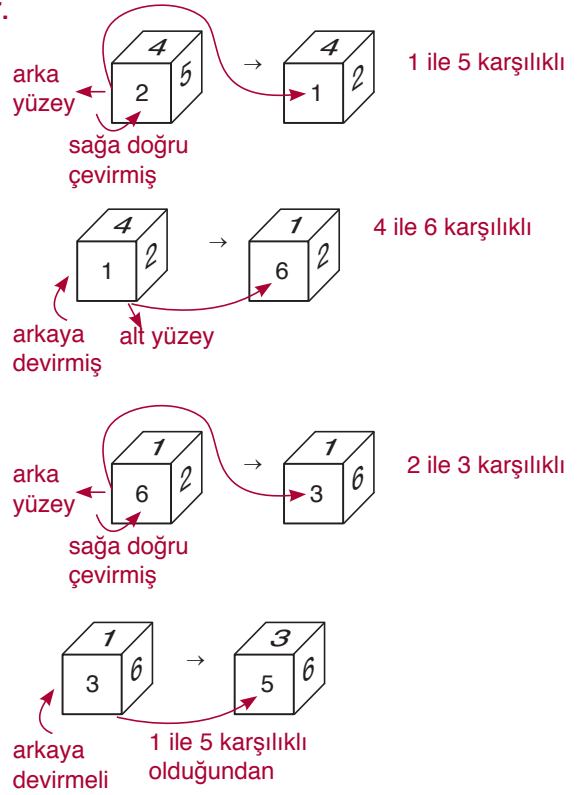
36.



$$5.4 + 6.5 + 3 + 2 + 1 + 1 + 1 + 2 + 2 + 1 = 63$$

Cevap: C

37.



Cevap: A

38. I.



II.

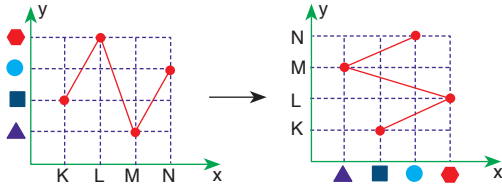


III.



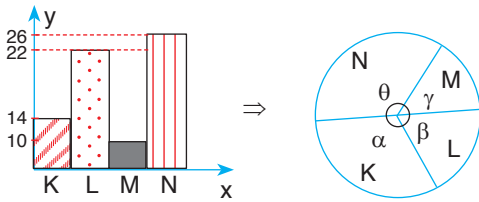
Cevap: E

39.



Cevap: E

40.



$$\left. \begin{array}{l} K = 14 \\ L = 22 \\ M = 10 \\ N = 26 \end{array} \right\} \xrightarrow{t} 72 \xrightarrow{\times 5} 360^\circ$$

$$\Rightarrow K = 14.5 = 70^\circ = \alpha$$

$$L = 22.5 = 110^\circ = \beta$$

$$K = 14.5 = 70^\circ = \alpha$$

$$M = 10.5 = 50^\circ = \gamma$$

$$N = 26.5 = 130^\circ = \theta$$

Cevap: C

$$41. \left(\frac{7}{52} - \frac{3}{13} \right) \cdot \left(\frac{1}{(24)} + \frac{3}{24} + \frac{1}{12} \right)$$

$$= \left(\frac{7}{13} - \frac{3}{13} \right) \cdot \left(\frac{24+3+12}{24} \right)$$

$$= \frac{4}{13} \cdot \frac{39}{24}$$

$$= \frac{1}{2} \text{ bulunur.}$$

Cevap: B

42.

$$3^{x+1} - 3^x + 3^{x-1} = 21$$

$$3^x \left(3 - 1 + \frac{1}{3} \right) = 21$$

$$3^x \cdot \frac{7}{3} = 21$$

$$3^x \cdot 7 = 3 \cdot 21$$

$$3^x = 3 \cdot 3$$

$$3^x = 3^2$$

$$\Rightarrow x = 2$$

Cevap: D

43.

$$\frac{10^2 (1+10+10^2)}{10^{-4} (10^2+10^2+1)} = 10^2 \cdot 10^4$$

$$= 10^6$$

Cevap: C

44.

$$\frac{1}{1+5^x} + \frac{1}{1+\frac{1}{5^x}} = \frac{1}{1+5^x} + \frac{1}{\frac{5^x+1}{5^x}}$$

$$= \frac{1}{1+5^x} + \frac{5^x}{5^x+1}$$

$$= \frac{1+5^x}{1+5^x}$$

$$= 1$$

Cevap: E

45.

$$\frac{\frac{3\sqrt{10}}{2} + \frac{6}{\sqrt{10}}}{\frac{\sqrt{2}}{\sqrt{5}} + \frac{\sqrt{5}}{\sqrt{2}}} = \frac{\frac{3\sqrt{10}}{2} + \frac{6\sqrt{10}}{10}}{\frac{\sqrt{10}}{5} + \frac{\sqrt{10}}{2}}$$

$$= \frac{\frac{15\sqrt{10} + 6\sqrt{10}}{10}}{\frac{2\sqrt{10} + 5\sqrt{10}}{10}}$$

$$= \frac{21\sqrt{10}}{10} \cdot \frac{10}{7\sqrt{10}}$$

$$= 3 \text{ bulunur.}$$

Cevap: D

46. $K = 8$, $L = 6$ ve $M = 4$ seçilirse

$$K.K = LM \Rightarrow 8.8 = 64$$

$$K.L = MK \Rightarrow 8.6 = 48$$

$$\Rightarrow K + L + M = 8 + 6 + 4 = 18 \text{ olur.}$$

Cevap: C

47. $\begin{array}{r} K \\ \hline y \\ \hline M \end{array} \Rightarrow \text{i) } K = y.M + y - 1$

$$\begin{array}{r} L \\ \hline y \\ \hline M+1 \end{array} \Rightarrow \text{ii) } L = y(M+1) = yM + y$$

$$\Rightarrow \text{i) } K = y.M + y - 1$$

$$\downarrow$$

$$K = L - 1 \text{ ve } L = K + 1$$

$$\text{O halde } K + L = K + K + 1 = 2K + 1 \text{ olur.}$$

$$\downarrow$$

$$K+1$$

48. $5^x = 8$ $5^{\otimes} = 2^{\otimes}$

$$25 = 2^y \Rightarrow 5^{\otimes} = 2^{\otimes}$$

$$\Rightarrow \frac{x}{2} \approx \frac{3}{y}$$

$$xy = 6$$

Cevap: D

49. $\frac{x^2}{x} - \frac{4x}{x} - \frac{1}{x} = \frac{0}{x}$

$$x - 4 - \frac{1}{x} = 0$$

$$x - \frac{1}{x} = 4$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = 4^2$$

$$x^2 - 2 \cdot x \cdot \frac{1}{x} + \frac{1}{x^2} = 16$$

$$x^2 - 2 + \frac{1}{x^2} = 16$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 18$$

Cevap: D

50. $\frac{\frac{m+1}{m}}{\frac{m^2-1}{m}} \cdot \left(\frac{m-1}{m}\right)$

$$= \frac{m+1}{m} \cdot \frac{m}{m^2-1} \cdot \frac{m-1}{m}$$

$$= \frac{\cancel{m+1}}{\cancel{m}} \cdot \frac{\cancel{m}}{(\cancel{m-1})(m+1)} \cdot \frac{\cancel{m-1}}{\cancel{m}}$$

$$= \frac{1}{m}$$

Cevap: B

51. $\frac{m^2}{m-n} - \frac{n^2}{m-n} = \frac{m^2-n^2}{m-n}$

$$\frac{(m-n)(m+n)}{m-n} = m+n$$

Cevap: E

52. $\frac{(\cancel{a-1})(a+1)}{(a+3)(\cancel{a-1})} \cdot \frac{(\cancel{a+3})(a+2)}{a(a+2)} = \frac{a+1}{a}$

Cevap: D

53. $m^3 + \frac{1}{m^3} = \left(m + \frac{1}{m}\right) \cdot \left(m^2 - m \cdot \frac{1}{m} + \frac{1}{m^2}\right)$

$$= 1 \cdot \left(m^2 + \frac{1}{m^2} - 1\right)$$

$$= 1 \cdot (-1 - 1)$$

$$= -2$$

$$\Rightarrow \left(m + \frac{1}{m} = 1\right)^2 \Rightarrow m^2 + 2 + \frac{1}{m^2} = 1$$

$$m^2 + \frac{1}{m^2} = -1$$

Cevap: C

54. $\sqrt{\left(\frac{1}{7}\right)^2 + \left(\frac{2}{3}\right)^2} - 2 \cdot \frac{1}{7} \cdot \frac{2}{3}$

$$\sqrt{\left(\frac{2}{3} - \frac{1}{7}\right)^2} = \frac{2}{3} - \frac{1}{7}$$

$$= \frac{11}{21}$$

Cevap: C

$$55. \frac{16^x \cdot 3^x}{\sqrt{(3^x)^2}} = 4$$

$$\frac{16^x \cdot 3^x}{3^x} = 4$$

$$4^{2x} = 4^1 \Rightarrow 2x = 1$$

$$x = \frac{1}{2}$$

Cevap: D

$$56. \frac{\sqrt{(2x-y)^2} + \sqrt[4]{y^4}}{\sqrt[3]{x^3}} = \frac{\overline{|2x-y|} + \overline{|y|}}{x}$$

$$= \frac{-2x + y - y}{x}$$

$$= \frac{-2x}{x} = -2$$

Cevap: A

$$57. \left(\frac{1}{x+\sqrt{y}} + \frac{1}{x-\sqrt{y}} \right) \cdot \frac{x^2-y}{\frac{\sqrt{x}}{\sqrt{y}}}$$

$$\frac{x-\sqrt{y}+x+\sqrt{y}}{x^2-y} \cdot \frac{x^2-y}{\frac{\sqrt{xy}}{2}}$$

$$\frac{2x}{\frac{\sqrt{xy}}{y}} = \frac{2xy}{\sqrt{xy}} = \frac{2xy\sqrt{xy}}{xy}$$

$$= 2\sqrt{xy}$$

Cevap: A

$$58. \frac{3}{x} = \frac{4}{y} \Rightarrow x = 3k$$

$$y = 4k$$

$$2x^{3k} + y^{4k} = 30 \Rightarrow 6k + 4k = 30$$

$$10k = 30$$

$$k = 3$$

$$\Rightarrow x = 3 \cdot 3 = 9$$

Cevap: B

$$59. \frac{1}{a} - \frac{6}{b} = -2$$

$$- \frac{1}{a} - \frac{3}{b} = 7$$

$$- \frac{3}{b} = -9$$

$$-3 = -9b$$

$$\frac{1}{3} = b$$

Cevap: C

$$60. \frac{xy+1}{y} = 2 \Rightarrow xy+1=2y$$

$$\frac{xy+1}{x} = 4 \Rightarrow xy+1=4x$$

$$\Rightarrow 2y = 4x \Rightarrow y = 2x$$

$$\text{O halde } \frac{x}{y} = \frac{x}{2x} = \frac{1}{2}$$

Cevap: E

$$61. \frac{x+y}{x} = 4 \Rightarrow x+y=4x$$

$$y = 3x$$

$$\text{O halde } \frac{x+y}{y} = \frac{x+3x}{3x} = \frac{4x}{3x} = \frac{4}{3}$$

Cevap: D

$$62. 3^1 \equiv 3 \pmod{5}$$

$$3^2 \equiv 4 \pmod{5}$$

$$3^3 \equiv 2 \pmod{5}$$

$$3^4 \equiv 1 \pmod{5}$$

$$3^2 \equiv 4 \text{ olur. } \begin{array}{r} 4007 \overline{) 5} \\ - \\ \hline 2 \end{array}$$

Cevap: E

63. $x > 0$

I. $\frac{1}{x} + \frac{1}{y} < \frac{1}{x} \Rightarrow \frac{1}{y} < 0$

II. $\frac{1}{x} < \frac{1}{x} + z \Rightarrow 0 < z$

III. $0 < \frac{1}{x} + z < 1$ olduğundan

↓

$0 < z < 1$ olduğundan

Cevap: C

64. $a - b + c = 0$

I. $a - c = 4$
 $b + c = 28$

$a + b = 32$

II. $- / a - c = 4$
 $b + c = 28$

$-a + c = -4$

+ $b + c = 28$

$b - a + 2c = 24$

$a - b + c = 0$

+ $b - a + 2c = 24$

$3c = 24 \Rightarrow c = 8$

$a - c = 24 \Rightarrow a = 12$

$b + c = 28 \Rightarrow b = 20$

O halde $a + b + c = ?$

$12 + 20 + 8 = 40$ bulunur.

Cevap: E

65. $b < 0 < a$

$|3a - 3b| - |b| = 7$

Burada $b < 0$ bu nedenle $|b| = -b$ Aynı şekilde $3a > 3b$ dolayısıyla

$|3a - 3b| = 3a - 3b$

Bu durumda $3a - 3b - (-b) = 7 \Rightarrow 3a - 2b = 7$

İkinci eşitlikten

$|3b - 3a| - |a| = 6$

$b < 0 < a$ bu nedenle $3b - 3a = -(3b - 3a)$

$a = a$ 'dır. $= 3a - 3b$

$3a - 3b - a = 6 \Rightarrow 2a - 3b = 6$

$3 / 3a - 2b = 7$

$-2 / 2a - 3b = 6$

$9a - 6b = 21$

+ $-4a + 6b = -12$

$5a = 9$

$a = \frac{9}{5}$

$2 \cdot \frac{9}{5} - 3b = 6$

$\frac{18}{5} - 6 = 3b$

$-\frac{12}{5} = 3b \Rightarrow b = -\frac{4}{5}$

O halde $a \cdot b = \frac{9}{5} \cdot \left(-\frac{4}{5}\right) = -\frac{36}{25}$ olur.

Cevap: A

66. $s(A \cup B \cup C \cup D) = s(A) + s(B) +$

$s(C) + s(D) - s(A \cap B) - s(B \cap C) - s(C \cap D) - s(D \cap A)$

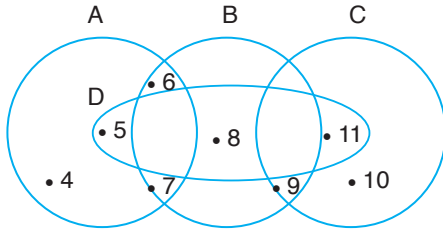
$= 8 + 8 + 8 + 8 - 3 - 3 - 3 - 3$

$= 32 - 12$

$= 20$ bulunur.

Cevap: B

67.



$$a = 4 \quad b = 8 \text{ ve} \quad c = 10$$

O halde $a + b - c = 4 + 8 - 10 = 2$ bulunur.

Cevap: B

68.

$$f(x) = 4x - 8 \text{ ve } g(x) = 2x$$

$$(f \circ g)(a) = 4 \cdot f(a)$$

$$f(g(a)) = 4 \cdot f(a)$$

$$g(a) = 2a \text{ olur.}$$

$$f(2a) = 4 \cdot f(a)$$

$$4 \cdot 2a - 8 = 4 \cdot (4a - 8)$$

$$8a - 8 = 16a - 32$$

$$24 = 8a$$

$$3 = a \text{ bulunur.}$$

Cevap: C

69.

$$(x^5 - 6x^3 + 5x^2 + 1)(4x^3 - 3x^2 - 6)$$

$$= \dots\dots -6x^5 + 18x^5 + 20x^5 + \dots\dots$$

$$\dots\dots + 32x^5 + \dots\dots$$

Cevap: B

70.

$$ax^4 + bx^3 + cx^2 + dx + e$$

$$= (x^2 - 3x + 2)(x^2 + x - 3)$$

$$ax^4 + bx^3 + cx^2 + dx + e$$

$$= x^4 + x^3 - 3x^2 - 3x^3 - 3x^2 + 9x + 2x^2 + 2x - 6$$

$$ax^4 + bx^3 + (x^2 + dx + e$$

$$= x^4 + -2x^3 - 4x^2 + 11x - 6$$

$$a = 1, b = -2, c = -4, d = 11, e = -6$$

$$(b + d) - (a + c + e) = (-2 + 11) - (1 - 4 - 6)$$

$$= 9 + 9 = 18$$

Cevap: A

$$71. \quad mx^2 + (m+1)x + 2 - m = 0$$

$$x_1 + x_2 - x_1 \cdot x_2 = \frac{1}{2}$$

$$\downarrow \quad \downarrow$$

$$-\frac{(m+1)}{m} - \frac{2-m}{m} = \frac{1}{2}$$

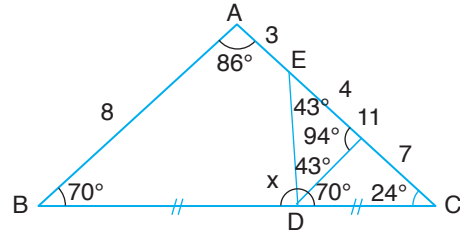
$$-\frac{m-1-2+m}{m} = \frac{1}{2}$$

$$-\frac{3}{m} = \frac{1}{2}$$

$$m = -6 \text{ bulunur.}$$

Cevap: A

72.



[BC]'nin ortası olan D noktasından [AB]'ye [DF] paralelini çizelim. $|AF| = |FC|$ olur.

[DF] // [AB] $\Rightarrow |DF| = 4$ cm olur.

DEF ikizkenar üçgen ve $m(\widehat{EDF}) = 43^\circ$ dir.

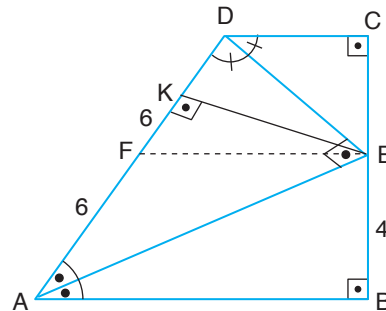
O halde

$$x + 43^\circ + 70^\circ = 180^\circ$$

$$x = 67^\circ \text{ bulunur.}$$

Cevap: B

73.



[DE] ve [AE] açıortay olduklarından

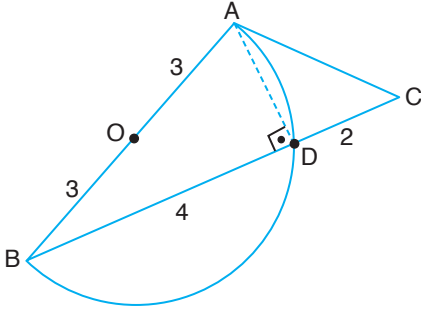
$$|EK| = |EC| = |EB| = 4 \text{ br } m(\widehat{AED}) = 90^\circ$$

$$A(ABCD) = 2 \cdot A(AED)$$

$$= 2 \cdot \frac{12 \cdot 4}{2} = 48 \text{ br}^2 \text{ olur.}$$

Cevap: D

74.



[AD] ⊥ [BC]

ABD dik üçgeninden $|AD|^2 + |BD|^2 = |AB|^2$

$$|AD|^2 + |BD|^2 = |AB|^2$$

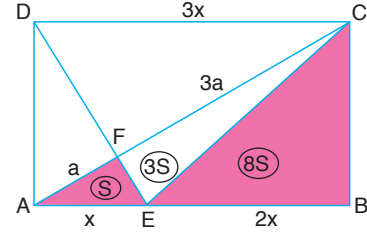
$$|AD| = 2\sqrt{5} \text{ cm}$$

$$|AD|^2 + |DC|^2 = |AC|^2$$

$$|AC| = 2\sqrt{6} \text{ cm}$$

Cevap: B

76.

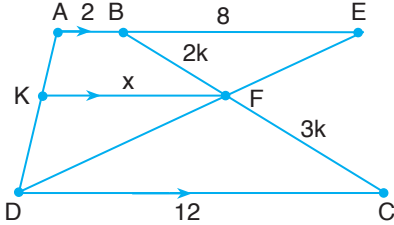


$$24S = 32 \rightarrow S = \frac{32}{24} = \frac{4}{3}$$

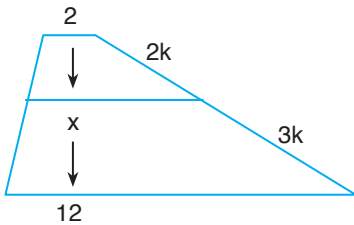
$$\text{Taralı alanların toplamı} = 9S = 9 \cdot \frac{4}{3} = 12$$

Cevap: E

75.



$$\frac{|BF|}{|FC|} = \frac{8}{12} = \frac{2}{3}$$



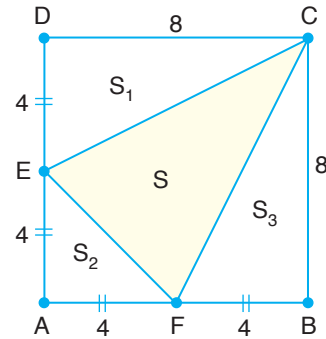
$$\frac{x-2}{12-x} = \frac{2}{3} \Rightarrow 3x-6=24-2x$$

$$5x=30$$

$$x=6$$

Cevap: C

77.



$$\text{Taralı alan} = 8^2 - (S_1 + S_2 + S_3)$$

$$= 64 - \left(\frac{4 \cdot 8}{2} + \frac{4 \cdot 4}{2} + \frac{8 \cdot 4}{2} \right)$$

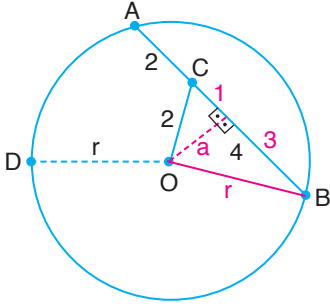
$$= 64 - (16 + 8 + 16)$$

$$= 64 - 40$$

$$= 24$$

Cevap: C

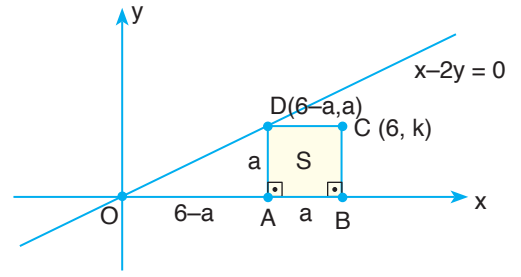
78.



- $a^2 + 1^2 = 2^2$
 $a^2 + 1 = 4$
 $a^2 = 3 \Rightarrow a = \sqrt{3}$
- $a^2 + 3^2 = r^2$
 $(\sqrt{3})^2 + 3^2 = r^2$
 $3 + 9 = r^2$
 $r^2 = 12 \Rightarrow r = 2\sqrt{3}$

Cevap: D

80.

D noktası $x - 2y = 0$

Doğrusu üzerinde ise

$$6 - a - 2a = 0$$

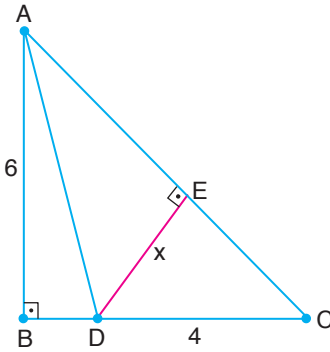
$$3a = 6$$

$$a = 2$$

$$\Rightarrow S = a^2 = 2^2 = 4$$

Cevap: B

79.



$$A(ADC) = \frac{4 \cdot 6}{2} = \frac{8 \cdot x}{2}$$

$$12 = 4x$$

$$3 = x$$

Cevap: E