

Bu teste cevaplayacağınız toplam soru sayısı 80'dir.

$$\begin{aligned} 1. \quad & \frac{\frac{2}{3} - \frac{5}{4}}{\frac{1}{2} - \frac{2}{3}} = \frac{\frac{2}{3} - \frac{1}{4}}{\frac{1}{2} - \frac{4}{3}} = \frac{\frac{8-3}{12}}{\frac{3-8}{6}} \\ & = \frac{5}{12} \cdot \frac{6}{-5} = -\frac{1}{2} \end{aligned}$$

Cevap: A

$$\begin{aligned} 2. \quad & a + \frac{1}{b + \frac{1}{c}} = 2 + \frac{2}{7} = 2 + \frac{1}{\frac{7}{2}} \\ & = 2 + \frac{1}{3 + \frac{1}{2}} \Rightarrow a = 2 \\ & \qquad b = 3 \\ & \qquad c = 2 \\ & \Rightarrow a + b + c = 7 \end{aligned}$$

Cevap: C

$$\begin{aligned} 3. \quad & \frac{0,75}{0,025} - \left( \frac{0,12}{0,3} + \frac{0,15}{0,5} \right) : \frac{0,05}{1,5} \\ & \frac{0,750}{0,025} - \left( \frac{0,12}{0,30} + \frac{0,15}{0,50} \right) : \frac{0,05}{1,50} \\ & \frac{750}{25} - \left( \frac{12}{30} + \frac{15}{50} \right) : \frac{5}{150} \\ & 30 - \left( \frac{4}{10} + \frac{3}{10} \right) \cdot \frac{150}{5} \end{aligned}$$

$$30 - \frac{7}{10} \cdot 30 = 30 - 7 \cdot 3 = 9$$

Cevap: B

$$4. \quad a = \frac{103}{100} \not\rightarrow -3$$

$$b = \frac{173}{170} \not\rightarrow -3 \Rightarrow c < b < a$$

$$c = \frac{258}{255} \not\rightarrow -3$$

Cevap: E

$$\begin{aligned} 5. \quad & \frac{1}{2} + \frac{2}{3} + \frac{3}{2} + \frac{4}{3} + \frac{5}{2} + \frac{6}{3} + \dots + \frac{23}{2} + \frac{24}{3} = \\ & \frac{1}{2} + \frac{3}{2} + \dots + \frac{23}{2} + \frac{2}{3} + \frac{4}{3} + \dots + \frac{24}{3} \\ & \frac{1+3+\dots+23}{2} + \frac{2+4+\dots+24}{3} \\ & \frac{12^2}{2} + \frac{12 \cdot 13}{3} = 72 + 52 = 124 \end{aligned}$$

Cevap: B

$$6. \quad -4 \mid \frac{2x}{3} - \frac{y}{4} = 1$$

$$3 \mid \frac{3x}{2} - \frac{y}{3} = 5$$

$$\frac{9x}{2} - \frac{8x}{3} = 15 - 4$$

$$\frac{27x - 16x}{6} = 11$$

$$\frac{11x}{6} = \frac{1}{11} \Rightarrow x = 6$$

Cevap: C

TASARIM EĞİTİM YAYINLARI

$$7. \quad 2a + 5b = 18$$

$$+2 \mid \quad c - a = 3 \Rightarrow -\frac{1}{2} - a = 3$$

$$2c + 5b = 24$$

$$a = \frac{-7}{2}$$

$$+ \quad b - 2c = 6 \Rightarrow 5 - 2c = 6$$

$$6b = 30$$

$$2c = -1$$

$$b = 5$$

$$c = \frac{-1}{2}$$

$$\Rightarrow a + b + c = -\frac{7}{2} + 5 - \frac{1}{2} = 5 - 4 = 1$$

Cevap: D

8.  $\begin{array}{r} a+b=7 \\ \begin{array}{r} 3 \\ 4 \end{array} \Rightarrow a < b < c \\ b+c=10 \quad \begin{array}{r} 3 \\ 4 \end{array} \quad \begin{array}{r} 6 \\ 6 \end{array} \\ \Rightarrow a.b.c = 3.4.6 = 72 \end{array}$

Cevap: E

9. 
$$\begin{array}{c} 4^1 & x^1 \\ \uparrow & \uparrow \\ (2\ 3\ 1)_4 & = (6\ 3)_x \\ \downarrow & \downarrow \\ 4^2 & x^0 \end{array}$$

$$2 \cdot 4^2 + 3 \cdot 4^1 + 1 \cdot 4^0 = 6 \cdot x^1 + 3 \cdot x^0$$

$$32 + 12 + 1 = 6x + 3$$

$$45 = 6x + 3$$

$$42 = 6x$$

$$7 = x$$

Cevap: B

10. 
$$\frac{n! + (n-2)!}{(n-1)!} = \frac{21}{4}$$

$$\frac{n \cdot (n-1) \cdot (n-2)! + (n-2)!}{(n-1) \cdot (n-2)!} = \frac{21}{4}$$

$$\frac{(n-2)! \cdot (n^2 - n + 1)}{(n-2)! \cdot (n-1)} = \frac{21}{4}$$

$$\frac{n^2 - n + 1}{n-1} = \frac{21}{4} \Rightarrow n = 5$$

Cevap: D

11.  $(2-x)\left(x+\frac{1}{3}\right) \geq 0$

$$\begin{array}{r} -\frac{1}{3} \quad 2 \\ \hline -\bullet // / \# // / \bullet - \end{array}$$

ÇK:  $\left[-\frac{1}{3}, 2\right]$

$$\Rightarrow \min(x) = -\frac{1}{3}$$

Cevap: A

12. 
$$\begin{array}{r} \sqrt{16a^2} + \sqrt{9b^2} - |4a - 3b| \\ |4a| + |3b| - |4a - 3b| \\ - + - \\ -4a + 3b + 4a - 3b = 0 \end{array}$$

Cevap: D

13. •  $3^{2a} \cdot 3^{-1} = 5 \Rightarrow 3^{2a} = 5 \cdot 3 = 15$   
 •  $(81)^a = 3^{4a} = (3^{2a})^2 = 15^2 = 225$

Cevap: A

14. 
$$\left(\frac{3}{5}\right)^{-2} : \left(-\frac{2}{3}\right)^2 + (-4)^{-1}$$

$$\left(\frac{5}{3}\right)^2 \cdot \frac{4}{9} - \frac{1}{4}$$

$$\frac{25}{9} \cdot \frac{9}{4} - \frac{1}{4} = \frac{25}{4} - \frac{1}{4}$$

$$= \frac{24}{4} = 6$$

Cevap: A

15.  $\sqrt[3]{24 + \sqrt{11 - \sqrt[3]{6 + \sqrt[5]{32}}}} = 3$

$$\sqrt[3]{24 + \sqrt{11 - \sqrt[3]{6 + 2}}} = 3$$

$$\sqrt[3]{24 + \sqrt{11 - \sqrt[3]{8}}} = 3$$

$$\sqrt[3]{24 + \sqrt{11 - 2}} = 3$$

$$\sqrt[3]{24 + 3} = 3$$

$$\sqrt[3]{27} = 3 \Rightarrow x = 3$$

Cevap: B

16. 
$$\frac{5^8 - 1}{(5^4 + 1)(5^2 + 1)} = \frac{(5^4 - 1)(5 + 1)}{(5^4 + 1)(5^2 + 1)}$$

$$\frac{(5^2 - 1)(5^2 + 1)}{5^2 + 1} = 25 - 1 = 24$$

Cevap: E

17.  $\frac{(1-a)^3 \cdot (a+1)^2}{\left(1+\frac{1}{a}\right)^2 \cdot \left(1-\frac{1}{a}\right)^3}$

$$\frac{(1-a)^3 \cdot (a+1)^2}{\frac{(a+1)^2}{a^2} \cdot \frac{(a-1)^3}{a^3}} = \frac{-1}{\frac{1}{a^5}} = -a^5$$

Cevap: A

18.  $\frac{2x}{2a} = \frac{-5y}{-5b} = \frac{3z}{3c} = \frac{6}{7}$

$$\frac{\frac{72}{2x-5y+3z}}{\frac{2a-5b+3c}{24}} = \frac{6}{7}$$

$$\frac{\cancel{24}^{12}}{24+3c} = \frac{6}{7}$$

$$84 = 24 + 3c$$

$$60 = 3c$$

$$c = 20$$

19.  $\frac{3x-y}{2} = z$

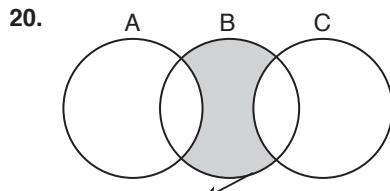
$$3y + z = 3x$$

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

$$6y + 3x - y = 6x$$

$$5y = 3x$$

$$\frac{5}{3} = \frac{x}{y}$$
 bulunur.



$$(B - A) \cap (B - C)$$

Cevap: C

Cevap: A

Cevap: E

21.  $|x+1| \cdot |3x-3| = 9$   
 $|x+1| \cdot 3|x-1| = 9$   
 $|x+1|(x-1)| = 3$   
 $|x^2-1| = 3$   
 $x^2-1=3$  ve  $x^2-1=-3$   
 $x^2-1=3$  ve  $x^2-1=-3$   
 $x^2=4$        $x^2=-2$  olamaz.

Cevap: C

22.  $(gogof)(2) = g(gof(2))$   
 $f(2) = x+1 = 2+1 = 3$  olduğundan  
 $\Rightarrow g(3))$   
 $g(3) = f(3) = 3+1 = 4$   
 $g(4) = g(x-1) + f(x+1) = g(3) + f(5)$   
 $= 4+5+1$   
 $= 10$  bulunur.

Cevap: B

TASARI EĞİTİM YAYINLARI

23.  $f(2x+1) = \frac{4x^2}{2} - \frac{x}{2} - \frac{7}{2}$   
 $f(5) = 16 - 2 - 7 = 7$   
 $f \circ f^{-1}(f(5)) = f(f(5)) = 7$

Cevap: A

24.  $\frac{x+B}{x^2+4x} = \frac{2}{x+4} + \frac{A}{x+4}$   
 $x+B = 2x+8+Ax$   
 $1.x+B = (A+2)x+8$   
 $\Rightarrow A+2=1 \Rightarrow A=-1$   
 $B=8$   
 $\Rightarrow a+b=-1+8=7$

Cevap: D

25.  $x_1^2 \cdot x_2 + x_2^2 \cdot x_1 = 12$

$$x_1 x_2 (x_1 + x_2) = 12$$

$$4.(-a - 1) = 12$$

$$-a - 1 = 3$$

$$-a = 4$$

$$a = -4$$

Cevap: B

26.  $P(x) = (x^2 - 9)Q(x) + 2x$

$$\begin{array}{r} (x^2 - 9)Q(x) + 2x \\ - (x^2 - 9).Q(x) \\ \hline 2x \\ - 2x + 6 \\ \hline -6 \end{array}$$

Cevap: E

27.  $\sum_{k=3}^{12} (k-3) = \sum_{k=3-2}^{12-2} (k+2)(k+2-3)$

$$\sum_{k=1}^{10} (k+2)(k-1) = \sum_{k=1}^{10} k^2 + k - 2$$

$$= \frac{10 \cdot 11 \cdot 21}{6} + \frac{10 \cdot 11}{2} - 2 \cdot 10$$

$$= 385 + 55 - 20$$

$$= 420$$

Cevap: C

28.  $k = 1 \quad a_2' = \frac{1}{1} \cdot a_1$

$$k = 2 \quad a_3' = \frac{1}{2} \cdot a_2'$$

$$k = 3 \quad a_4' = \frac{1}{3} \cdot a_3'$$

$$x \quad a_4 = 1 \cdot \frac{1}{2} \cdot \frac{1}{3} \cdot 3$$

$$\underline{\hspace{10em}}$$

$$a_4 = \frac{1}{2}$$

Cevap: B

29.  $P(5x - 1) = x^2 + 3x - 5$

$$5x - 1 = 9$$

$$5x = 10$$

$$x = 2$$

$x$  yerine 2 yazalım.

$$P(9) = 2^2 + 3 \cdot 2 - 5$$

$$= 4 + 6 - 5$$

$P(9) = 5$  bulunur.

Cevap: E

30.  $\begin{array}{r} A & 4 & B \\ + & 4 & A & B \\ \hline C & B & 4 \end{array}$

$B = 7, A = 2, C = 6$  olup

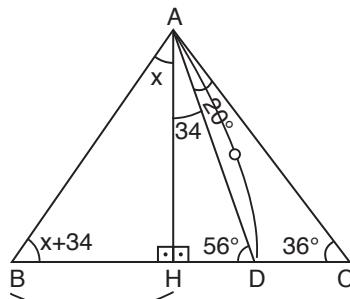
$$\begin{array}{r} 2 & 4 & 7 \\ + & 4 & 2 & 7 \\ \hline 6 & 7 & 4 \end{array}$$

$A \cdot B \cdot C = 2 \cdot 7 \cdot 6 = 84$  olur.

Cevap: E

TASARI EĞİTİM YAYINLARI

31.



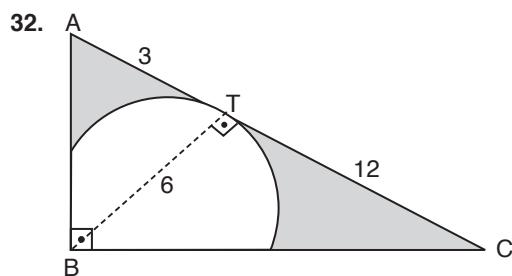
$$90 + x + 34 + x = 180$$

$$2x = 180 - 124$$

$$2x = 56$$

$$x = 28$$

Cevap: B



$|BT|$  çizilirse yarıçap teğete dik olduğundan

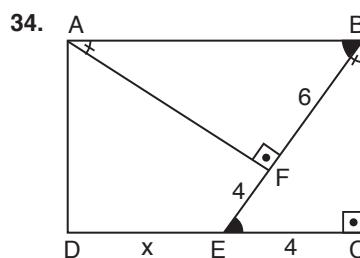
$$[BT] \perp [AC]$$

$$|BT|^2 = 3 \cdot 12 = 36$$

$$|BT| = 6 \text{ cm}$$

$$\begin{aligned} \text{Taralı Alan} &= \frac{6 \cdot 15}{2} - \frac{\pi \cdot 6^2}{4} \\ &= 45 - 9\pi \text{ cm}^2 \end{aligned}$$

Cevap: B



$$m(\widehat{BAF}) = m(\widehat{EBC})$$

$$m(\widehat{ABF}) = m(\widehat{BEC})$$

AFB üçgeni ile BCE üçgeni benzer üçgendir.

$$\frac{|AB|}{|BE|} = \frac{|BF|}{|CE|}$$

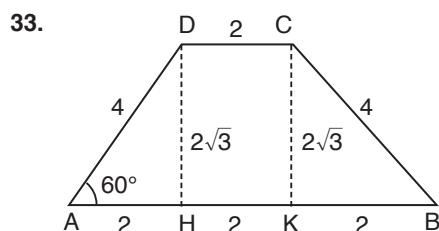
$$\frac{|AB|}{6+4} = \frac{6}{4}$$

$$|AB| = \frac{60}{4} = 15$$

$$x + 4 = 15 \Rightarrow x = 11 \text{ cm olur.}$$

Cevap: C

TASARIM EĞİTİM YAYINLARI



Yamuklarda paralel olmayan kenarların ardışık açıları bütün olduğundan

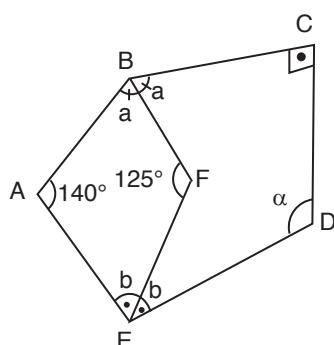
$$m(\widehat{ADC}) = 60^\circ$$

$$|AH| = |HK| = |KC| = \frac{6-2}{2} = 2 \text{ br}$$

(30°, 60°, 90°) üçgeninden  $|DH| = |KC| = 2\sqrt{3}$

$$A(ABCD) = \frac{(6+2) \cdot 2\sqrt{3}}{2} = 8\sqrt{3} \text{ br}^2$$

Cevap: D



$$140^\circ + 125^\circ + a + b = 360^\circ$$

$$a + b = 95^\circ$$

ABCDE beşgeninin iç açılar toplam

$$(n-2) \cdot 180^\circ = (5-2) \cdot 180^\circ = 540^\circ \text{ olduğundan}$$

$$140^\circ + 2(a+b) + 90^\circ + \alpha = 540^\circ$$

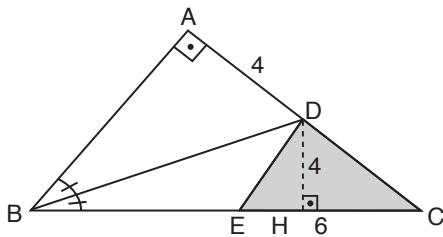
$$140^\circ + 190^\circ + 90^\circ + \alpha = 540^\circ$$

$$\alpha = 120^\circ \text{ bulunur}$$

Cevap: D

*Diğer Sayfaya Geçiniz.*

36.



Açıortayın [AC] kenarını kestiği noktadan [BC] kena-  
rına dik çizersek [BD] açıortay olduğundan açıortay  
üzerindeki herhangi bir noktadan açının kenarlarına  
çizilen dik uzunluklar eşittir.

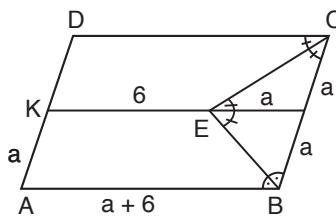
$$|AD| = |DH| = 4 \text{ cm}$$

O halde

$$A(DEC) = \frac{|EC| \cdot |DH|}{2} = \frac{6 \cdot 4}{2}$$

= 12 cm<sup>2</sup> bulunur.

38.



$$2(2a + a + 6) = 36$$

$$6a + 12 = 36$$

$$6a = 24$$

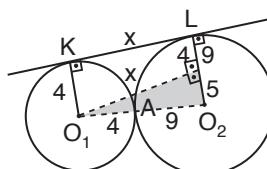
$$a = 4$$

$$\Rightarrow |AK| = a = 4$$

Cevap: C

Cevap: B

39.



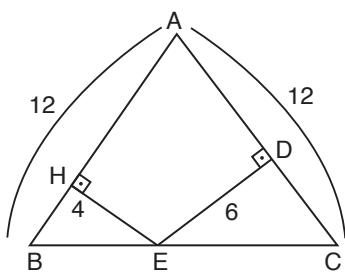
$$x^2 + 5^2 = 13^2$$

$$x = 12$$

Cevap: B

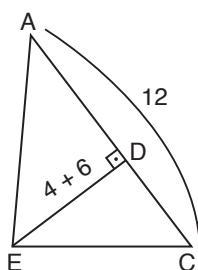
TASARI EĞİTİM YAYINLARI

37.



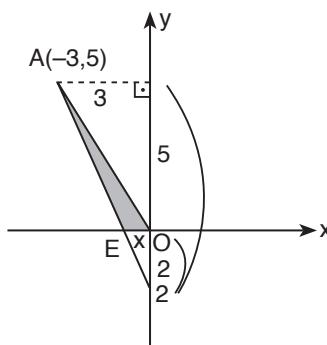
$$\Rightarrow \text{Alan} = \frac{12 \cdot 10}{2}$$

$$= 60$$



Cevap: C

40.



$$\frac{2}{7} = \frac{x}{3}$$

$$x = \frac{6}{7}$$

$$\Rightarrow \text{Alan} = \frac{x \cdot 5}{2} = \frac{\frac{6}{7} \cdot 5}{2} = \frac{15}{7}$$

Cevap: A

41.

(5 katının bir fazlası)

Cevap: E

42. I.  $75 \xrightarrow{-3} 72 \xrightarrow{\div 3} 24 \xrightarrow{-3} 21 \xrightarrow{\div 3} 7 \xrightarrow{-3} 4$   
 II.  $42 \xrightarrow{+3} 45 \xrightarrow{\div 3} 15 \xrightarrow{+3} 18 \xrightarrow{\div 3} 6 \xrightarrow{+3} 9$   
 III.  $84 \xrightarrow{-3} 81 \xrightarrow{\div 3} 27 \xrightarrow{-3} 24 \xrightarrow{\div 3} 8 \xrightarrow{-3} 5$   
 IV.  $60 \xrightarrow{+3} 63 \xrightarrow{\div 3} 21 \xrightarrow{+3} 24 \xrightarrow{\div 3} 8 \xrightarrow{+3} 11$

Cevap: C

43. En sondaki harften L = 2  
 $248312 \rightarrow \text{LETKİL}$   
 $E = 4, T = 8, K = 3, 1 = 1$  olur.  
 $312843 \rightarrow \text{KİLTEK}$

Cevap: B

44.  $a^2 \bullet b^3 = 2a + 3b$

$$a \blacksquare \frac{b}{3} = 4a + 3b$$

$$(4 \blacksquare 1) = 4.4 + 3.3 = 16 + 9$$

$$\begin{array}{r} \downarrow \\ a \end{array} \quad \begin{array}{r} \downarrow \\ b \end{array} \quad = 25$$

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

$$b = 3$$

$$25 \bullet 27 = 2.5 + 3.3$$

$$\begin{array}{r} \swarrow \\ a^2 = 25 \end{array} \quad \begin{array}{r} \searrow \\ b^3 = 27 \end{array}$$

$$= 10 + 9$$

$$= 19$$

$$a = 5 \quad b = 3$$

Cevap: E

45. I.

II.

$$\Rightarrow M = \leq$$

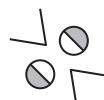
$$N = \times$$

Cevap: E



46.

Cevap: A



47.

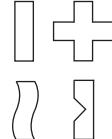
Cevap: E

48. → yerinde duruyor.

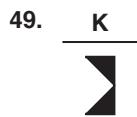
→ saat yönünde bir ilerliyor.

→ saat yönünde bir ilerliyor.

→ saat yönünde bir ilerliyor.



Cevap: C



Cevap: C

50.  $\alpha = \left| \frac{11.\text{dk} - 60.\text{saat}}{2} \right|$

$$\alpha = \left| \frac{11.30 - 60.1}{2} \right|$$

$\alpha = 135^\circ$  dar açı

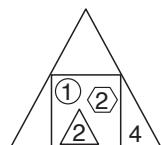
$$\alpha = 360 - 135 = 225$$

51.  $\bigcirc \rightarrow$  içinin karesi

$\bigcirclearrowleft \rightarrow$  içinin 6 katı

$\triangle \rightarrow$  içinin 3 katı

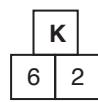
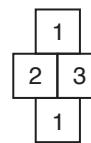
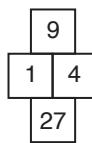
$\square \rightarrow$  içindekilerin toplamı



$$\begin{aligned} &\rightarrow 3((1^2 + 6.2 + 2.3) + 4) \\ &\rightarrow 3.(1 + 12 + 6) + 4 \\ &\rightarrow 3.(23) \\ &\rightarrow 69 \end{aligned}$$

Cevap: D

52.



$$\begin{array}{lll} (4 - 1)^2 = 9 & (3 - 1)^2 = 1 & K = (6 - 2)^2 = 16 \\ (4 - 1)^3 = 27 & (3 - 1)^3 = 1 & L = (6 - 2)^3 = 64 \end{array}$$

Cevap: D

53. I. tablo

$$a + a = \frac{a^2}{4} \quad a + c = 11$$

$$8a = a^2 \quad 8 + c = 11$$

$$8a = a \quad c = 3$$

II. tablo

$$b.c = 45$$

$$b = 15$$

$$a + b + c = 8 + 15 + 3 = 26$$

Cevap: D

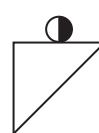
Cevap: A

TASARI EĞİTİM YAYINLARI

54.



Cevap: E



Cevap: A

56.

|   |    |   |   |
|---|----|---|---|
| ★ | 6  | 5 | 4 |
| 4 | 16 | 4 | 1 |
| 2 | 16 | 8 | 4 |
| 3 | 27 | 9 | 3 |

→ I. satır

→ II. satır

→ III. satır

$$\begin{aligned} 4^{6-4} &= 4^2 = 16 \\ 4^{5-4} &= 4^1 = 4 \\ 4^{4-4} &= 4^0 = 1 \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{I. satır}$$

$$\begin{aligned} 2^{6-2} &= 2^4 = 16 \\ 2^{5-2} &= 2^3 = 8 \\ 2^{4-2} &= 2^2 = 4 \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{II. satır}$$

$$\begin{aligned} 3^{6-3} &= 3^3 = 27 \\ 3^{5-3} &= 3^2 = 9 \\ 3^{4-3} &= 3^1 = 3 \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{III. satır}$$

$$K = 1 \quad \text{ve} \quad L = 9$$

$$57. \quad A = 15 - 8 = 7$$

$$B = 15.9 = 135 \text{ olur.}$$

$$\begin{aligned} 58. \quad a + b &= 50 \\ b + c &= 30 \\ + \quad a + c &= 44 \\ \hline 2(a + b + c) &= 124 \\ a + b + c &= 62 \text{ bulunur.} \end{aligned}$$

Cevap: A

Cevap: A

$$59. \quad \bullet \rightarrow a, \quad \blacktriangle \rightarrow b, \quad \star \rightarrow c$$

$$I \rightarrow 2a = 4b \Rightarrow a = 2b$$

$$a = 2k, \quad b = k$$

$$II \rightarrow 3c = a + 2b = 4k$$

$$III \rightarrow 2a + b = 4k + k = 5k = ?$$

seçeneklerden C

$$\blacktriangle \star \star \star \rightarrow b + 3c$$

↓

$$k + 4k = 5k$$

Cevap: C

$$60. \quad \frac{(Gri)^2 + (Siyah)^3 - (beyaz)^3}{(Tüm şekiller \times Gri) + (Siyah \times beyaz)}$$

$$II \rightarrow \frac{2^2 + 4^3 - 2^3}{8.2 + 4.2} = \frac{60}{24}$$

$$= \frac{15}{4}$$

$$III \rightarrow \frac{3^2 + 7^3 - 6^3}{16.3 + 7.6} = \frac{68}{45}$$

Cevap: C

TASARIM EĞİTİM YAYINLARI

61. ○ → içindeki

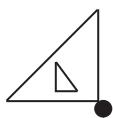
⌒ → içindekisinin yarısı

↙ → içindekisinin  $\frac{3}{4}$ 'ü

$$\begin{aligned} &\rightarrow \frac{3}{1} + \frac{3}{2} + \frac{4}{2} + \frac{15}{4} + \frac{18}{4} \\ &= \frac{12 + 6 + 8 + 15 + 18}{4} \\ &= \frac{59}{4} \end{aligned}$$

Cevap: C

62.



Cevap: E

63.



Üst üste toplanmış karedeki siyahlar beyaz beyazlar siyah olmaktadır.

Cevap: B

64.

$$\begin{array}{cc}
 \begin{array}{ccc}
 \boxed{40} & \xrightarrow{-4} & \boxed{36} \\
 \uparrow \div 2 & & \downarrow +6 \\
 \boxed{80} & & \boxed{42}
 \end{array} &
 \begin{array}{ccc}
 \boxed{19} & \xrightarrow{-4} & \boxed{15} \\
 \uparrow \div 2 & & \downarrow +6 \\
 \boxed{38} & \xrightarrow{-4} & \boxed{21}
 \end{array}
 \end{array}$$

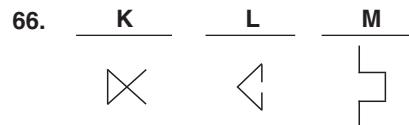
$$A - B = 36 - 19$$

= 17 bulunur.

Cevap: B

65.  $\triangle \rightarrow I$  $\square \rightarrow II$  $\square \rightarrow III$  $\circlearrowleft \rightarrow IV$ 

Cevap: C

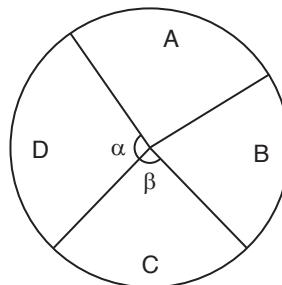


Cevap: A



Cevap: D

68.



$$A + B + C + D = 1$$

$$\frac{1}{3} + \frac{1}{5} + \alpha + \beta = 1$$

$$\alpha + \beta = 1 - \frac{8}{15}$$

$$\alpha + \beta = \frac{7}{15} = \frac{168}{360} \quad (24)$$

$$\alpha + \beta = 168$$

$$-1 / \quad \alpha - \beta = 32$$

$$2\beta = 136 \Rightarrow \beta = 68^\circ$$

Cevap: E

69. Üçgen içindeki sayının kendisi hariç tam bölenleri

$$27 \rightarrow 1, 9, 3$$

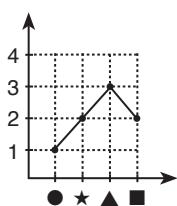
$$23 \rightarrow 1$$

$$10 \rightarrow 1, 5, 2$$

$$16 \rightarrow 1, 8, 4, 2$$

Cevap: D

70.



Cevap: C

71.

$$\begin{array}{l}
 \begin{array}{ccc}
 3 = 17 - 14 & \leftarrow & 6 = 2 \cdot 3 = 6 \\
 2 = 13 + 1 & \leftarrow & \\
 \end{array} \\
 \\ 
 \begin{array}{ccc}
 15 = 27 - 12 & \leftarrow & 45 \\
 3 = 13 - 10 & \leftarrow & \\
 \end{array} \\
 \\ 
 \begin{array}{ccc}
 12 = 24 - 12 & \leftarrow & ? = 12 \cdot 5 = 60 \\
 5 = 13 - 8 & \leftarrow & \\
 \end{array}
 \end{array}$$

73. ● # ♡ = △

△ # ■ = ☒

☒ # ▲ = ♡

☒ # ♡ = ☒

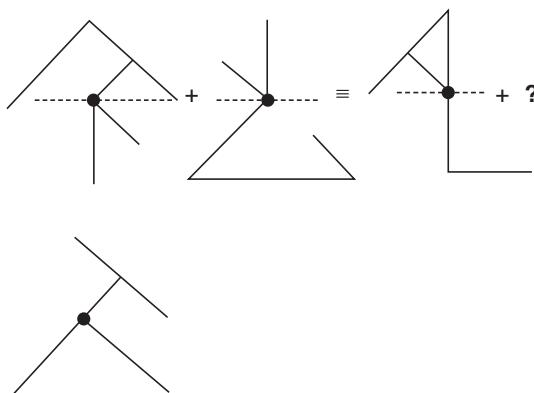
Cevap: B

74.



Cevap: C

72.



Cevap: B

75. Kurala göre

$$c = 14$$

$$\frac{d+c}{a+c} = \frac{10}{9}$$

$$d = 6$$

$$\frac{6+14}{a+14} = \frac{10}{9}$$

$$\frac{20}{a+14} = \frac{10}{9} = \frac{20}{18}$$

$$a + 14 = 18 \Rightarrow a = 4$$

Cevap: A

76.  $1 \quad | \quad 11 \rightarrow$  sol  $\rightarrow$  sağ 10 fazlası $4 \quad | \quad 8 \rightarrow$  sol  $\rightarrow$  sağ 2 katı $7 \quad | \quad 5 \rightarrow$  sol  $\rightarrow$  sağ 2 eksiği

$$4 \quad | \quad 14$$

$$6 \quad | \quad 12$$

$$8 \quad | \quad 6$$

$$2 \quad | \quad 12$$

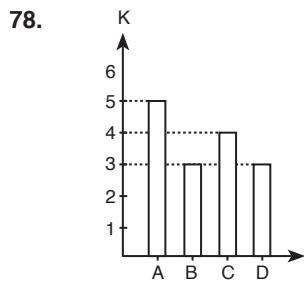
$$5 \quad | \quad 10$$

$$9 \quad | \quad 7$$

Cevap: E

77.  $1 \rightarrow 2$   
 $3 \rightarrow 6$   
 $4 \rightarrow 5$

Cevap: A

A

$$\begin{array}{r} K - L = 4 \\ K + L = 6 \\ \hline 2K = 10 \Rightarrow K = 5 \end{array}$$

B

$$\begin{array}{r} K - L = 2 \\ K + L = 4 \\ \hline 2K = 6 \Rightarrow K = 3 \end{array}$$

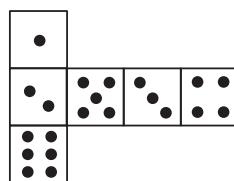
C

$$\begin{array}{r} K - L = 6 \\ K + L = 2 \\ \hline 2K = 8 \Rightarrow K = 4 \end{array}$$

D

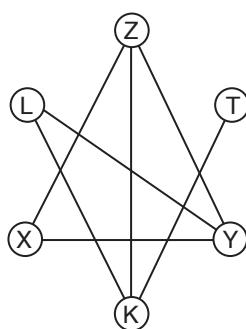
$$\begin{array}{r} K - L = 1 \\ K + L = 5 \\ \hline 2K = 10 \Rightarrow K = 3 \end{array}$$

79.  $1 \rightarrow 6$   
 $5 \rightarrow 4$   
 $3 \rightarrow 2$



Cevap: D

80.



Cevap: D

TASARI EĞİTİM YAYINLARI

Cevap: D