

ÇÖZÜMLERİ

$$\begin{aligned}
 1. \quad & \frac{\left(\frac{3}{5}-4\right)+\left(\frac{1}{5}+4\right)}{\left(\frac{16}{15}+2\right)-\left(\frac{1}{15}+2\right)} \\
 & = \frac{\left(\frac{-17}{5}\right)+\left(\frac{21}{5}\right)}{\left(\frac{46}{15}\right)-\left(\frac{31}{15}\right)} \\
 & = \frac{\frac{4}{5}}{\frac{15}{15}} = \frac{4}{5} \text{ bulunur.}
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 2. \quad & \frac{0,81}{(0,3)^2-(0,3)} : \frac{0,027}{(0,3)^2} \\
 & = \frac{0,81}{0,09-0,3} : \frac{0,027}{0,09} \\
 & = \frac{0,81}{-0,21} \cdot \frac{0,09}{0,027} \\
 & = -\frac{81}{21} \cdot \frac{90}{27} \\
 & = -\frac{90}{7}
 \end{aligned}$$

Cevap: D

$$\begin{aligned}
 3. \quad & \frac{3^2 \cdot 9^4 \cdot 6^6}{54^5} = \frac{3^2 \cdot 3^8 \cdot 3^6 \cdot 2^6}{(3^3 \cdot 2)^5} \\
 & = \frac{3^{16} \cdot 2^6}{3^{15} \cdot 2^5} = 3 \cdot 2 = 6
 \end{aligned}$$

Cevap: E

$$\begin{aligned}
 4. \quad & (\sqrt{3^x+72})^2 = (3^x)^2 \\
 & 3^x+72 = 3^{2x} \\
 & 72 = 3^{2x}-3^x \\
 & 72 = 3^x \cdot \underbrace{(3^x-1)}_8 \\
 & \quad \quad \quad \downarrow \\
 & \quad \quad \quad 9 \\
 & 3^x = 9 \Rightarrow 3^x = 3^2 \\
 & \quad \quad \quad x = 2 \text{ bulunur.}
 \end{aligned}$$

Cevap: B

TASARI EĞİTİM YAYINLARI

$$\begin{aligned}
 5. \quad & \frac{2x^2-2}{3x^2-x-2} : \frac{5x^2+6x+1}{15x^2+13x+2} \\
 & = \frac{2(x^2-1)}{(x-1) \cdot (3x+2)} : \frac{(5x+1)(x+1)}{(5x+1) \cdot (3x+2)} \\
 & = \frac{2 \cdot \cancel{(x-1)} \cdot (x+1)}{(3x+2) \cdot \cancel{(x-1)}} \cdot \frac{(5x+1) \cdot \cancel{(3x+2)}}{(5x+1) \cdot (x+1)} \\
 & = 2 \text{ bulunur.}
 \end{aligned}$$

Cevap: E

$$\begin{aligned}
 6. \quad & \frac{(7+\sqrt{x}) \cdot (49-x)}{7-\sqrt{x}} = 64 \\
 & \frac{(7+\sqrt{x})(\cancel{7-\sqrt{x}})(7+\sqrt{x})}{(\cancel{7-\sqrt{x}})} = 64 \\
 & (7+\sqrt{x})^2 = 64 \\
 & 49+14\sqrt{x}+x = 64 \\
 & 14\sqrt{x}+x = 15 \text{ bulunur.}
 \end{aligned}$$

Cevap: B

7. i) $\frac{a-1}{b} = \frac{c}{a}$

$$\Rightarrow a.(a-1) = b.c$$

ii) $\frac{a}{c-2} = \frac{b+3}{a-1}$

$$\Rightarrow a.(a-1) = (c-2).(b+3)$$

i ve ii'den

$$b.c = (c-2).(b+3)$$

$$b.c = b.c + 3c - 2b - 6$$

$$6 = 3c - 2b \text{ bulunur.}$$

Cevap: C

8. a, b, c ardışık tek sayılar

$$a < b < c$$

$$a < a+2 < a+4$$

$$4a = 30(c-b)$$

$$4a = 30(\acute{x} + 4 - \acute{x} - 2)$$

$$4a = 30.2$$

$$a = 15 \text{ ve } b = 17, c = 19$$

$$a+b+c = 15+17+19 = 51 \text{ bulunur.}$$

Cevap: B

9. $A \ 4 \ B$ $B = 2$

$- \ C \ A \ 7$ $A = 5$

$\frac{\quad}{B \ 8 \ 5}$ $C = 2$

olmalı

$$5 \ 4 \ 2$$

$$- \ 2 \ 5 \ 7$$

$$\frac{\quad}{2 \ 8 \ 5}$$

$$A.B.C = 5.2.2 = 20 \text{ bulunur.}$$

Cevap: C

10. $a < 0$

$$a = 5b \Rightarrow \frac{a}{b} = \frac{5}{1}$$

$$b = \frac{c}{7} \Rightarrow \frac{b}{c} = \frac{1}{7}$$

$$a < 0 \text{ ise } a = -5, b = -1 \text{ ve } c = -7$$

$$c < a < b$$

Cevap: D

11.

$$\frac{\sqrt{3}}{3-a} - \frac{1}{\sqrt{3}+\sqrt{a}} = \sqrt{a}$$

$$\frac{\sqrt{3}}{(\sqrt{3}-\sqrt{a})(\sqrt{3}+\sqrt{a})} - \frac{1}{\sqrt{3}+\sqrt{a}} = \sqrt{a}$$

$$\frac{\sqrt{3}-\sqrt{3}+\sqrt{a}}{(\sqrt{3}-\sqrt{a})(\sqrt{3}+\sqrt{a})} = \frac{\sqrt{a}}{1}$$

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

$$3-a = 1$$

$$2 = a \text{ olur.}$$

Cevap: B

12. $\frac{3^6 - 5^4}{18^2 - 8^2}$

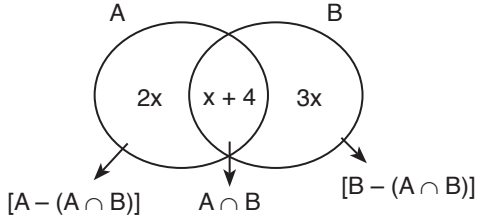
$$= \frac{(3^3)^2 - (5^2)^2}{18^2 - 8^2} = \frac{(27)^2 - (25)^2}{18^2 - 8^2}$$

$$= \frac{(27-25).(27+25)}{(18-8)(18+8)}$$

$$= \frac{2.52}{10.26} = \frac{2}{5} \text{ bulunur.}$$

Cevap: B

13.



$$n(A \cup B) = 64$$

$$2x + x + 4 + 3x = 64$$

$$6x + 4 = 64$$

$$6x = 60$$

$$x = 10$$

O halde

$$n(B) = x + 4 + 3x$$

$$= 4x + 4$$

$$= 40 + 4$$

$$= 44$$

Cevap: E

$$14. \frac{x}{y} = \frac{5}{7} \Rightarrow x = 5k \text{ ve } y = 7k$$

$$3.(5k) - 2.7k = 6$$

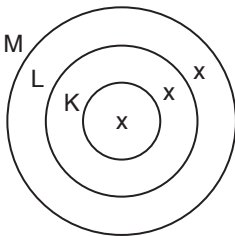
$$15k - 14k = 6$$

$$k = 6$$

$$\text{O halde } x + y = 5k + 7k = 12k = 12.6 \\ = 72 \text{ olur.}$$

Cevap: E

$$15. K \subset L \subset M$$



$$n(M \setminus L) = n(L \setminus K) = n(K) \\ = x$$

$$S(M) = x + x + x = 51$$

$$3x = 51$$

$$x = 17$$

O halde

$$S(L) = 2x = 2.17 = 34 \text{ bulunur.}$$

Cevap: D

$$16. \frac{1-x}{a+1} - 2 = -3$$

$$\frac{1-x}{a+1} = -1 \Rightarrow 1-x = -a-1$$

$$a+2 = x$$

$$\frac{3-2(a+2)}{2} = 3a$$

$$6a = 3 - 2a - 4$$

$$8a = -1$$

$$a = -\frac{1}{8} \text{ bulunur.}$$

Cevap: A

TASARI EĞİTİM YAYINLARI

17.

$$\frac{P(x-1)}{10} \Big| \frac{x-5}{B(x)}$$

$$P(x-1) = (x-5).B(x) + 10$$

0 olması için

$$x - 5 = 0$$

$$x = 5 \text{ için}$$

$$P(4) = 10 \text{ olur.}$$

$$P(3x-2) = x^3 - 2x^2 + ax + 6$$

$$3x - 2 = 4$$

$$3x = 6$$

$$x = 2 \text{ için}$$

$$P(4) = 2^3 - 2.2^2 + a.2 + 6$$

$$P(4) = 8 - 8 + 2a + 6$$

$$10 = 2a + 6$$

$$4 = 2a \Rightarrow a = 2 \text{ bulunur.}$$

Cevap: B

$$18. x^2 - 20x + m - 2 = 0$$

$$x_1 + x_2 = -\frac{b}{a} = -\frac{(-20)}{1} = 20$$

$$\frac{x_1}{2} = \frac{x_2}{3} = k \Rightarrow x_1 = 2k, x_2 = 3k$$

$$\bullet 2k + 3k = 20$$

$$5k = 20$$

$$k = 4 \text{ o halde } x_1 = 8 \text{ ve } x_2 = 12$$

$$* x_1 \cdot x_2 = \frac{c}{a} = \frac{m-2}{1} = m-2$$

$$\downarrow \quad \downarrow$$

$$8 \cdot 12 = m - 2$$

$$96 = m - 2$$

$$\boxed{98 = m} \text{ bulunur.}$$

Cevap: E

$$19. |a| - a = 24 \Rightarrow |a| = 24 + a$$

$$a = 24 + a \text{ ve } a = -24 - a$$

$$0 \neq 24 \quad 2a = -24$$

$$a = -12$$

$$* |b - a| = -b$$

$$|b + 12| = -b$$

$$b + 12 = -b \text{ ve } b + 12 = b$$

$$2b = -12 \quad 12 \neq 0$$

$$b = -6$$

$$\text{O halde } a \cdot b = (-12) \cdot (-6)$$

$$= 72 \text{ bulunur.}$$

Cevap: E

$$20. x - y = 4 \text{ ve } z - m = -8$$

$$\begin{array}{c} \overbrace{xz + ym - yz - xm - y + z - z + m} \\ \downarrow \\ \underbrace{} \end{array}$$

$$= z(x - y) + m(y - x) + (x - y) + (m - z)$$

$$= \underbrace{(x - y)}_4 \underbrace{(z - m)}_{-8} + \underbrace{(x - y)}_4 + \underbrace{(m - z)}_8$$

$$= -32 + 4 + 8$$

$$= -20 \text{ bulunur.}$$

Cevap: C

$$21. |x - y + 2| + \sqrt{4x^2 + 4xy + y^2} = 0$$

$$|x - y + 2| + \sqrt{(2x + y)^2} = 0$$

$$\underbrace{|x - y + 2|}_0 + \underbrace{|2x + y|}_0 = 0$$

$$x - y + 2 = 0 \text{ ve } 2x + y = 0$$

$$x - y = -2$$

$$\text{O halde } x - y = -2$$

$$+ 2x + y = 0$$

$$3x = -2 \Rightarrow x = -\frac{2}{3}$$

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

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

$$\frac{4}{3} = y$$

$$\text{buradan } x + y = -\frac{2}{3} + \frac{4}{3} = \frac{2}{3}$$

Cevap: A

$$22. \frac{n!(n+4)!}{(n+3)!(n-1)!} = 77$$

$$\frac{n \cdot \cancel{(n-1)!} \cdot (n+4) \cdot \cancel{(n+3)!}}{(n+3)!(n-1)!} = 77$$

$$n \cdot (n+4) = 77$$

$$\downarrow$$

$$7 \text{ olur.}$$

Cevap: C

$$23. A = 35 + 42 + 49 + \dots + 119$$

$$A = \frac{(119 + 35)(119 - 35 + 7)}{2 \cdot 7} = \frac{154 \cdot 91}{14}$$

$$A = 1001$$

$$B = 7 + 14 + 21 + \dots + 112$$

$$B = \frac{(112 + 7)(112 - 7 + 7)}{2 \cdot 7} = \frac{119 \cdot 112}{14}$$

$$B = 952$$

$$A - B = 1001 - 952$$

$$= 49 \text{ bulunur.}$$

Cevap: A

24. $f(x) = 38 - x$

$f(1) = 38 - 1 = 37$

$f(2) = 38 - 2 = 36$

$f(3) = 38 - 3 = 35$

 \vdots

$f(73) = 38 - 73 = -35$

$f(74) = 38 - 74 = -36$

O halde

$$= 37 + 36 + 35 + 34 + \dots - 34 - 35 - 36$$

$$= 37 \text{ bulunur.}$$

Cevap: D

26. $f(x + 3) = 3x + 6$

$h(x - 3) = 2x + 1$

$g^{-1}(2x + 1) = x - 3$

$x = 3$ için

$g^{-1}(7) = 0$

$\Rightarrow (f \circ g^{-1})(7) = f(g^{-1}(7)) = f(0)$

$f(0)$ için $x = -3$ alınır.

$f(0) = -9 + 6$

$= -3$ bulunur.

Cevap: A

27. $P(x) = x^3(x - 2a)^2$

$P(3a) = (3a)^3 \cdot (3a - 2a)^2$

$-\frac{27}{4} = 27a^3 \cdot a^2$

$-\frac{27}{4} = 27a^5 \Rightarrow a^5 = -\frac{1}{4}$

* $P(4a) = (4a)^3 \cdot (4a - 2a)^2$

$= 64a^3 \cdot 4a^2$

$= 256a^5$

$= 256 \cdot \left(-\frac{1}{4}\right)$

$= -64$ bulunur.

Cevap: B

25. $\frac{\sqrt{9x^2 + 9x} + \sqrt{x + 1}}{9x - 1} = 1$

$\frac{3\sqrt{x} \cdot \sqrt{x + 1} + \sqrt{x + 1}}{9x - 1} = 1$

$\frac{\sqrt{x + 1}(3\sqrt{x} + 1)}{(3\sqrt{x} + 1)(3\sqrt{x} - 1)} = 1$

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

$x + 1 = 9x + 1 - 6\sqrt{x}$

$6\sqrt{x} = 8x$

$\sqrt{x} = \frac{8x}{6} = \frac{4x}{3}$

$x = \frac{16x^2}{9}$

$\frac{9}{16} = x$ olur.

Cevap: D

28. $\frac{5x + 3}{3x^2 - 2x - 1} = \frac{A}{x - 1} + \frac{B}{3x + 1}$

$\frac{5x + 3}{(3x + 1)(x - 1)} = \frac{3xA + A + Bx - B}{(3x + 1)(x - 1)}$

$5x + 3 = x \cdot (3A + B) + A - B$

$3A + B = 5$

$+ A - B = 3$

$4A = 8$

$A = 2$

* $2 - B = 3 \Rightarrow B = -1$

O halde

$A + B = 2 - 1 = 1$ bulunur.

Cevap: C

29. $a.b = 21$
 $b.c = 20$
 $a.c = 19$

Bu tarz sorularda sonucu büyük olan işlemde olmayan sayı küçük

* sonucu küçük olan işlemde olmayan sayı büyüktür.

$$21 > 20 > 19$$

$$b > a > c \text{ olur.}$$

Cevap: E

30. $2x + y = 20$
 $-2/ \quad x + 2z = 28$

$$\begin{array}{r} 2x + y = 20 \\ + \quad -2x - 4z = -56 \\ \hline y - 4z = -36 \end{array}$$

$$\begin{array}{r} * \quad y + z = 14 \\ + \quad -1/ y - 4z = -36 \\ \hline y + z = 14 \\ + \quad -y + 4z = 36 \\ \hline 5z = 50 \Rightarrow z = 10 \end{array}$$

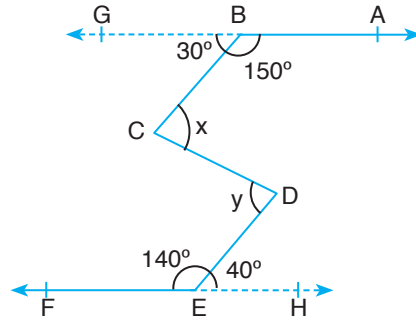
$$* \quad y + 10 = 14 \Rightarrow y = 4$$

$$\begin{array}{r} * \quad 2x + 4 = 20 \\ 2x = 16 \\ x = 8 \end{array}$$

O halde $y < x < z$ olur.

Cevap: D

31.



[BA ve [EF şekildeki gibi uzatılırsa

$m(\widehat{GBC}) = 30^\circ$ ve $m(\widehat{HED}) = 40^\circ$ olur.

$m(\widehat{GBC}) + m(\widehat{CDE}) = m(\widehat{BCD}) + m(\widehat{DEH})$

$$30^\circ + y = x + 40^\circ \Rightarrow y - x = 10^\circ$$

$$x + y = 90$$

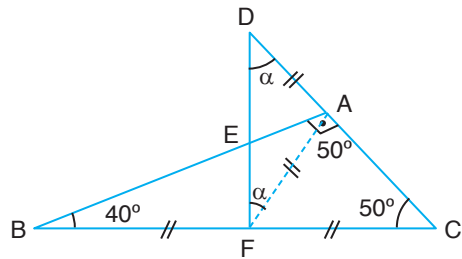
$$+ \quad y - x = 10$$

$$2y = 100 \Rightarrow y = 50 \text{ ve } x = 40^\circ \text{ bulunur.}$$

Cevap: C

TASARI EĞİTİM YAYINLARI

32.



A ve F noktaları birleştirilirse

$|BF| = |FC| = |AF|$ elde edilir. (Muhteşem üçlü)

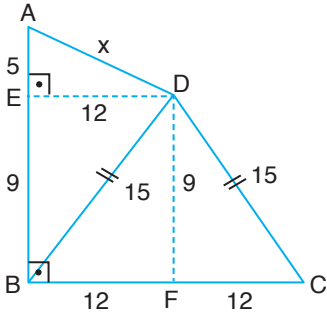
$m(\widehat{ABC}) = 40^\circ \Rightarrow m(\widehat{ACB}) = m(\widehat{CAF}) = 50^\circ$

\widehat{ADF} de $\alpha + \alpha = 50$

$$2\alpha = 50 \Rightarrow \alpha = 25^\circ \text{ olur.}$$

Cevap: B

33.



[DE] ve [DF] çizilirse [DE] BDC ikizkenar üçgeni kenarortayı olur.

$$|DE| = 9 \text{ br} \quad (9 - 12 - 15 \text{ dik üçgen})$$

$$|DE| = |FB| = 9 \text{ br}$$

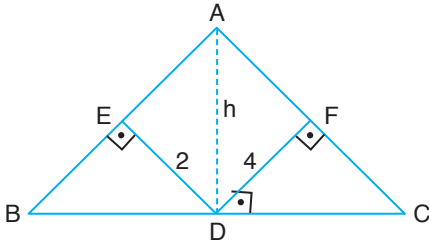
$$|BE| = |FD| = 12 \text{ br olur.}$$

\widehat{DFA} üçgeni 5 - 12 - 13

O halde $|AD| = 13 \text{ br}$ bulunur.

Cevap: E

34.



$|DE|$ ve $|DF|$ uzunluklarının toplamı eşkenar üçgenin yüksekliğine eşittir. $h = 2 + 4 = 6 \text{ br}$

$$h = \frac{a\sqrt{3}}{2} = 6 \Rightarrow a\sqrt{3} = 12$$

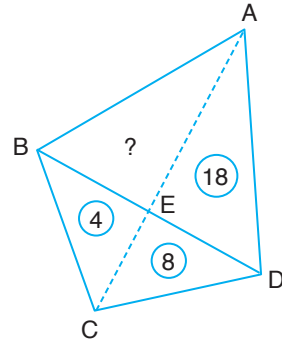
$$a = \frac{12}{\sqrt{3}} = 4\sqrt{3} \text{ br}$$

O halde

$$\begin{aligned} A(ABC) &= \frac{a^2\sqrt{3}}{4} = \frac{(4\sqrt{3})^2 \cdot \sqrt{3}}{4} \\ &= \frac{48\sqrt{3}}{4} = 12\sqrt{3} \text{ br}^2 \end{aligned}$$

Cevap: C

35.



$$A(BCE) \cdot A(EAD) = A(CED) \cdot A(AEB)$$

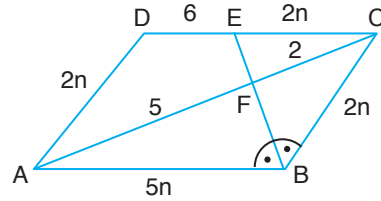
$$4 \cdot 18 = 8 \cdot A(AEB)$$

$$9 = A(AEB) \text{ olur.}$$

Cevap: B

TASARI EĞİTİM YAYINLARI

36.



$$m(\widehat{ABE}) = m(\widehat{BEC}) \text{ iç ters açıdır.}$$

$$F \text{ noktasına göre } FEC \sim FBA$$

$$6 + 2n = 5n \Rightarrow 3n = 6$$

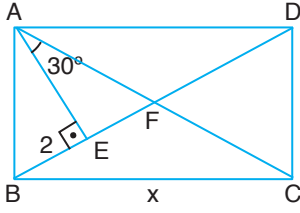
$$n = 2 \text{ br}$$

$$|AB| = 10 \text{ br ve } |BC| = 4 \text{ br}$$

$$\text{Ç}(ABCD) = 2 \cdot (10 + 4) = 28 \text{ br olur.}$$

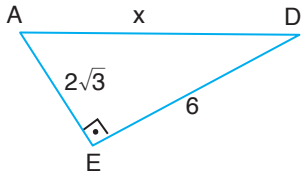
Cevap: E

37.



$|EF| = a$ olsun $|AF| = 2a$ olur.

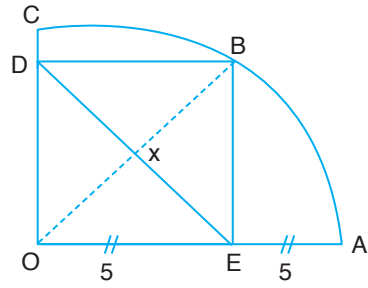
$|BF| = |AF| \Rightarrow 2a = a + 2 \Rightarrow a = 2$ br



AED üçgeninde
 $x^2 = (2\sqrt{3})^2 + (6)^2$
 $x^2 = 12 + 36 = 48$
 $x = 4\sqrt{3}$ br olur.

Cevap: C

39.



Çeyrek çemberde

$|OA| = 10$ cm'dir. (yarıçapı)

OEBC dikdörtgeninde

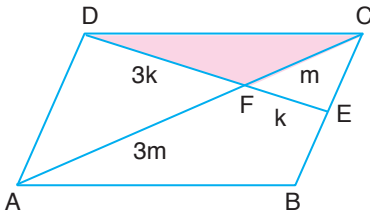
[OB] köşegen çizilir ise

$|OB|$ yarıçap yani $|OB| = 10$ cm bulunur.

Bu durumda $|OB| = |DE| = 10$ cm

Cevap: C

38.



$|DF| = 3|EF| \Rightarrow |DF| = 3k$ ve $|EF| = k$ olsun

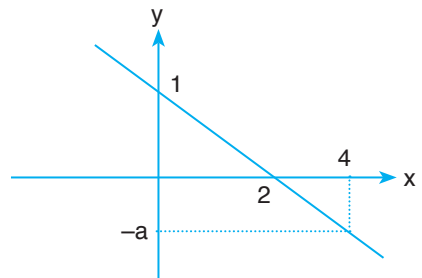
$|FC| = m$ ve $|AF| = 3m$

$$A(DAC) = \frac{(ABCD)}{2} = 32 \text{ cm}^2$$

$$A(DFC) = 32 \cdot \frac{1}{4} = 8 \text{ cm}^2$$

Cevap: A

40.



Soruda istenen a değeri d doğrusu üzerinde apsisi 4 olan noktanın ordinatıdır. d doğrusu eksenleri $A(0,1)$ ve $B(2,0)$ noktalarında kestiğine göre

$$\frac{x}{2} + \frac{y}{1} = 1 \Rightarrow x + 2y = 2$$

$$x \text{ yerine } 4 \text{ konulursa } 4 + 2y = 2$$

$$2y = -2$$

$$y = -1 \text{ bulunur.}$$

Cevap: D

41. I. II.

$\triangle = 3$

$\star = 7$
 $\bigcirc = 1$
 $\square = 5$

$\Rightarrow \star \triangle \square \bigcirc = 73841$

Cevap: A

42. I. II. A = 1

S = 8
 N = 7

$\Rightarrow \text{SABINA} = 812671$

Cevap: D

43. I. 27-7 20.2 40-7 33.2 66

II. 20+7 27.2 54+7 61.2 122

III. 21.2 42-6 36.2 72-6 66

IV. 14.2 28+6 34.2 68+6 74

Cevap: C

44. $3 \bullet 5 = 2.3^2 + 3.5 = 33$
 $6 \blacktriangle 3 = 3.6 - 3^2 = 9$
 $33 \blacktriangle 9 = 3.33 - 9^2$
 $= 99 - 81$
 $= 18$

Cevap: C

45. $21 \quad 28$
 $a + b = 49$
 $28 \quad 16$
 $b + c = 44$
 $+ \quad -/a + c = 37$

$2b = 56 \Rightarrow b = 28$
 $\Rightarrow a - c = 21 - 16 = 5$

Cevap: C

46. $b + c = 28$ $a \cdot b = 108$
 $+ \quad a \cdot c = 144$

$ab + ac = 252$
 $a(b + c) = 252$
 $a \cdot 28 = 252$
 $a = 9$

Cevap: C

47. I.

II.

III.

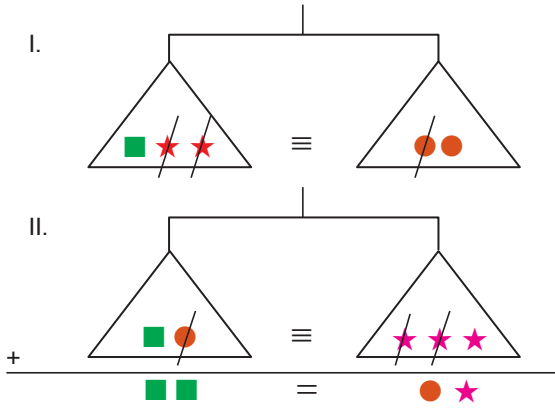
Cevap: C

48. $5 + \frac{3}{8} = \frac{43}{8}$

$$\left(\text{Taralı Bölge} + \frac{\text{Taralı olmayan bölge}}{\text{Tüm bölüm sayısı}} \right)$$

Cevap: E

49.



II. Yol

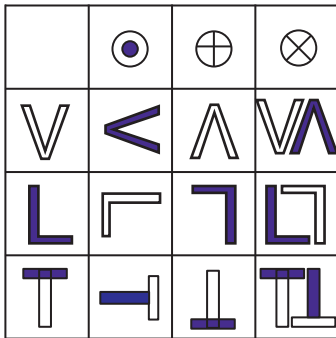
■ → a, ★ → b, ● → c

I. $a + 2b = 2c$

II. $a + c = 3b$

$$\begin{array}{r} + \\ 2a + 2b + c = 2c + 3b \\ 2a = b + c \text{ olur.} \end{array}$$

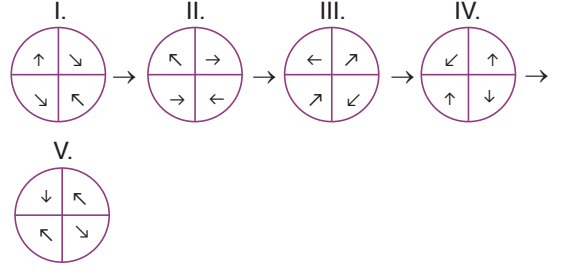
50.



Cevap: B

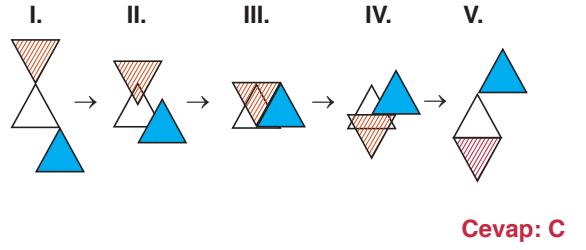
Cevap: D

51.



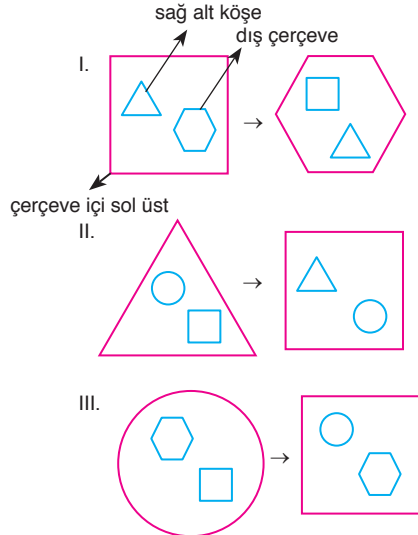
Cevap: C

52.



Cevap: C

53.

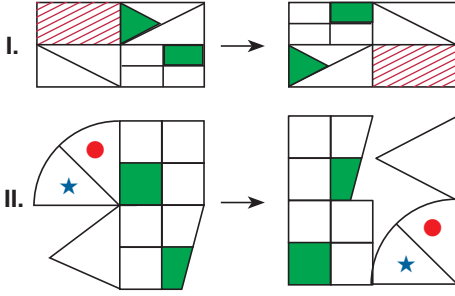


Cevap: E

54.

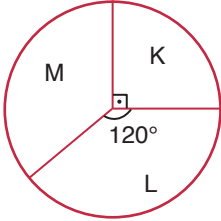
1	2
3	4

1 → 4 ile yer değiştiriyor.
2 → 3 ile yer değiştiriyor.



Cevap: B

55. I.

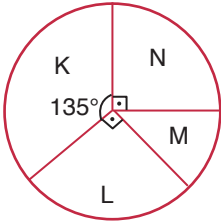


$$\Rightarrow K = 3k$$

$$L = 4k$$

$$M = 5k$$

II.



$$\Rightarrow K = 135 = 3k$$

$$L = 90 = 2k$$

$$M = 45 = k$$

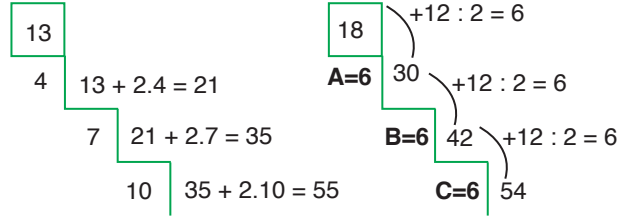
$$N = 90 = 2k$$

Cevap: C

56. $7 \cdot 3 + 15 = 36$
 $4 \cdot 2 + 7 = 15$
 $4 \cdot A + 19 = 39$
 $\Rightarrow 4A = 20$
 $A = 5$

Cevap: C

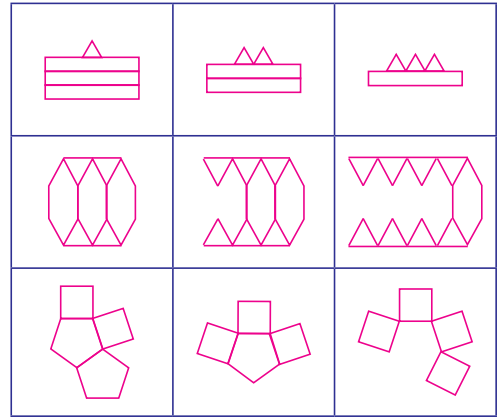
57.



$$A + B + C = 6 + 6 + 6 = 18 \text{ olur.}$$

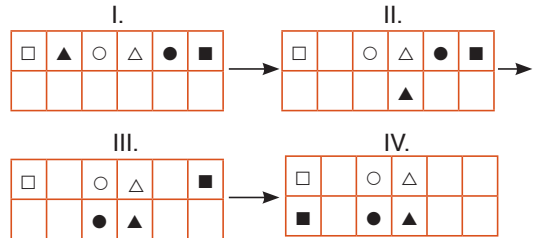
Cevap: B

58.



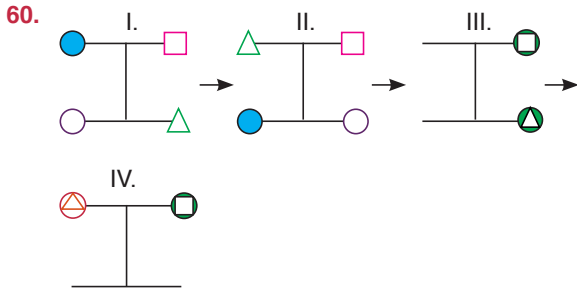
Cevap: A

59.

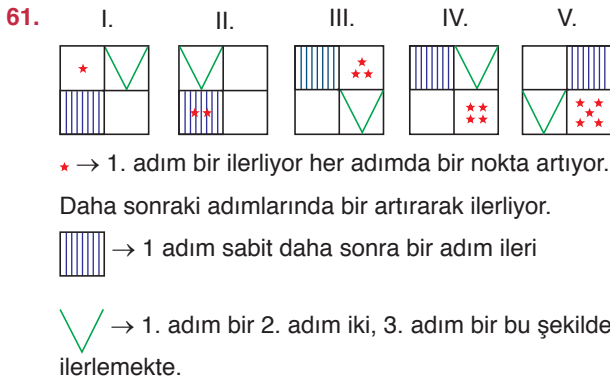


! Siyah şekil eşdeğeri olanı buluyor ve altına iniyor.

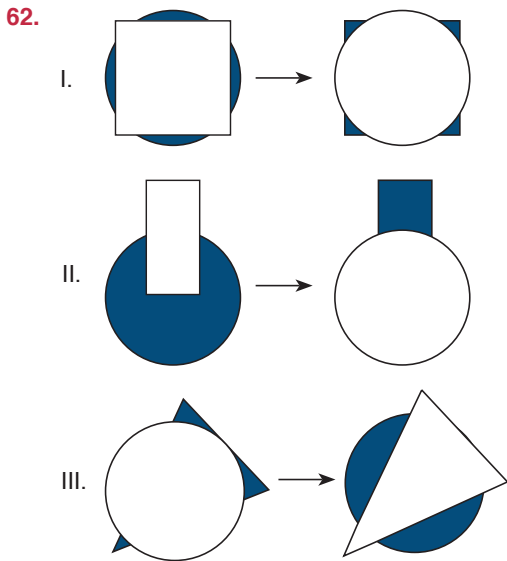
Cevap: D



Cevap: D

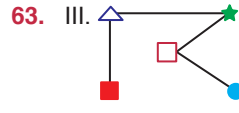


Cevap: E

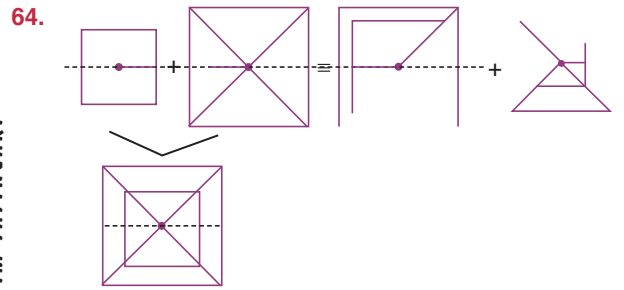


(Alttaki şekil üste gelip üstteki şekil alta gitmekte renk değişimi olarak)

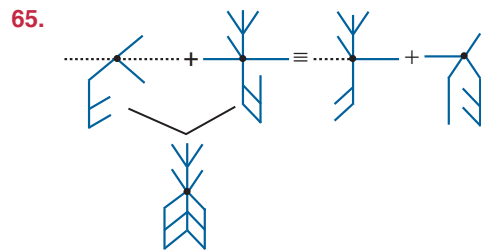
Cevap: E



Cevap: C

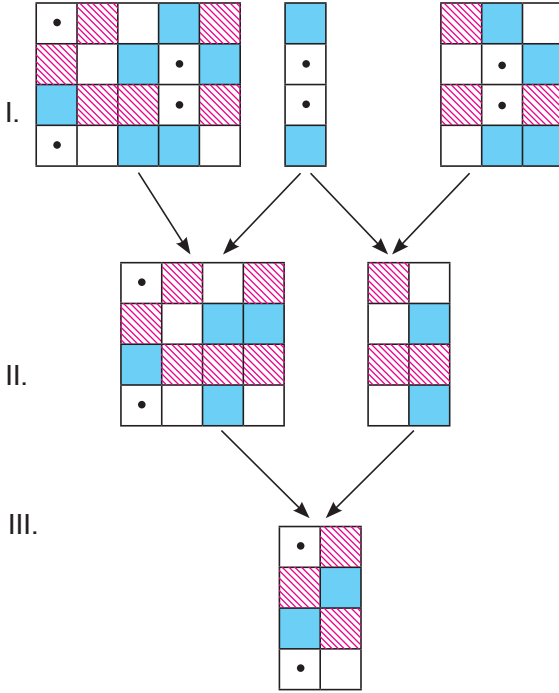


Cevap: D



Cevap: A

66.



Cevap: C

67. $c^2 + 4 = 13$ $a^c = 64$ $a - b = -1$
 $c^2 = 9$ $a^3 = 4^3$ $4 - b = -1$
 $c = 3$ $a = 4$ $5 = b$

Cevap: E

68.

$\bullet \# \triangle = \blacktriangle$
 $\odot \# \blacktriangle = \ominus$
 $[\blacktriangle \# ?] \# \odot = \blacktriangle$
 \triangle
 $\blacktriangle \# ? = \triangle \Rightarrow ? = \odot$

Cevap: A

69. $[(\bullet \# \heartsuit) \# \blacksquare] \# (\boxtimes \# \blacktriangle) = (\triangle \# \blacksquare) \# \heartsuit = \boxtimes$

Cevap: B

70. $[(\bullet \# \heartsuit) \# \blacksquare] \# (\blacktriangle \# \blacktriangle) = (\triangle \# \blacksquare) \# \star = \blacksquare$

Cevap: D

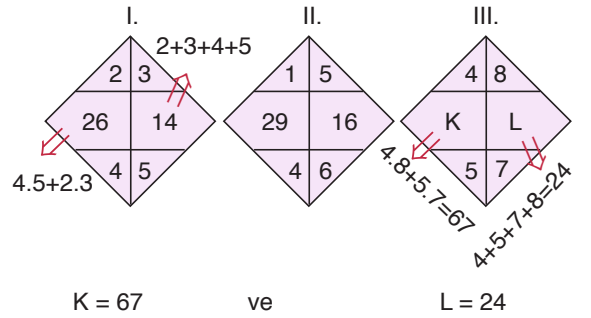
TASARI EĞİTİM YAYINLARI

71.

1 $\xrightarrow{+1!}$ 2
 2 $\xrightarrow{+2!}$ 4
 4 $\xrightarrow{+3!}$ 10
 10 $\xrightarrow{+4!}$ 34
 34 $\xrightarrow{+5!}$ 154
 154 $\xrightarrow{+6!}$ 874

Cevap: C

72.



Cevap: C

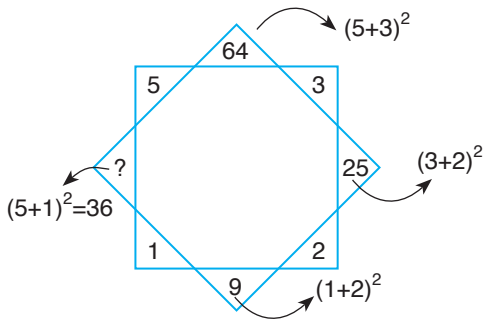
79.

$$\begin{aligned} 79 &= \textcircled{41} - \triangle 27 + \textcircled{83} - \triangle 18 \\ &= 14 + 65 = 79 \\ 39 &= \textcircled{58} - \triangle 44 + \textcircled{100} - \triangle K \Rightarrow \end{aligned}$$

$$\begin{aligned} 114 - K &= 39 \\ 75 &= K \end{aligned}$$

Cevap: D

80.



Cevap: D