

## ÇÖZÜMLER


1. I.  $\frac{4.9}{3} = 12$

II.  $\frac{12.14}{3} = 56$

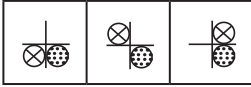
III.  $\frac{8.K}{3} = 40$

$$K = \frac{120}{8} = 15$$

Cevap: E

2.  → sabit duruyor

 → saat yönünde bir adım ilerlemekte



Cevap: B

3.  $\frac{463-3}{2} = 230$

$$\frac{399-3}{2} = 198$$

$$\frac{230-6}{2} = 112$$

$$\frac{198-6}{2} = 96$$

$$\frac{112-12}{2} = 50$$

$$\frac{96-12}{2} = 42$$

$$\frac{159-3}{2} = 78$$

$$\frac{78-6}{2} = 36$$

$$\frac{36-12}{2} = \textcircled{12} \text{ bulunur.}$$

Cevap: A

4.  $(6 \star 4) = \frac{x^2}{3y} = \frac{6^2}{3.4} = \frac{36}{12} = 3$

$$3 \bullet 4 = x + y^2 = 3 + 4^2 = 3 + 16 = 19$$

Cevap: E

5. 
$$\begin{array}{r|l} KL4 & KL \\ -KL & 10 \\ \hline 004 & \end{array}$$

$$a = 10, b = 4$$

$$\Rightarrow a + b = 10 + 4 = 14 \text{ bulunur.}$$

Cevap: E

6. 
$$\begin{array}{r} AAB \\ + AB \\ \hline CBC \end{array} \quad \begin{array}{r} A \\ - B \\ \hline 3 \end{array}$$

$$A - B = 3 \Rightarrow A = B + C$$

$$C = A + 1 \Rightarrow A = C - 1$$

$$2B = C \Rightarrow A = 8 - 1 = 7 \text{ bulunur.}$$

$$\begin{array}{l} \downarrow \downarrow \\ 4 \quad 8 \end{array}$$

Cevap: C

7.  → içindeki değerlerin karesi

 → içindeki değerlerin toplamının 2 katı

 → içindeki değerlerin toplamının yarısı

Cevap: A

$$\begin{array}{c} \text{1} \\ \text{4} \end{array} \rightarrow 2 \cdot \left( \frac{4^2 + 7}{2} + 1 \right) = 2 \cdot \left( \frac{25}{2} \right) = 25 \text{ bulunur.}$$

Cevap: B

8. I. 
$$\frac{(\text{Siyah üçgen})^3 - (\text{Gri üçgen})^2 + (\text{Siyah x Gri üçgen})}{\text{Şekildeki üçgen} + (\text{Boş üçgen} - \text{Siyah üçgen})}$$

II. 
$$\frac{2^3 - 1^2 + 2 \cdot 1}{8 + (5 - 2)} = \frac{8 - 1 + 2}{8 + 3} = \frac{9}{11}$$



$$\frac{4^3 - 3^2 + 4 \cdot 3}{16 + (9 - 4)} = \frac{64 - 9 + 12}{16 + 5} = \frac{67}{21}$$

Cevap: B

9. Sondaki K harfinden

$$K = 2, \quad Ç = 1$$

$$\text{KAÇAK} \rightarrow 24142 \rightarrow A = 4 \quad V = 5$$

$$\text{ÇATAK} \rightarrow 14942 \text{ olur.}$$

O halde

$$\text{KAŞIK} \rightarrow 24782 \text{ olur.}$$

Cevap: D

10. Ç harfine dikkat edildiğinde

$$Ç = 9 \text{ olduğu görülür.}$$

$$\text{ÇEKİÇ} \rightarrow 96589$$

$$E = 6, \quad K = 5, \quad İ = 8$$

$$\text{AKÇAM} \rightarrow 75971 \text{ bulunur.}$$

Cevap: A

11. Tabloya göre (çarpma) işlemi yapılmakta

$$\left. \begin{array}{l} 2.a = 6 \\ 6.a = 18 \end{array} \right\} \Rightarrow a = 3$$

$$3.b = 12 \Rightarrow b = 4$$

$$4.c = 20 \Rightarrow c = 5$$

$$\text{O halde } \frac{a+b+c}{2} = \frac{3+4+5}{2} = 6 \text{ bulunur.}$$

Cevap: D

12. I. satırda



O halde



Cevap: D

$$13. \alpha = \left| \frac{11 \cdot \text{dakika} - 60 \cdot \text{saat}}{2} \right|$$

$$\alpha = \left| \frac{11 \cdot 20 - 60 \cdot 3}{2} \right|$$

$$\alpha = \left| \frac{220 - 180}{2} \right| = 20$$

Cevap: B

$$14. \alpha = \left| \frac{11 \cdot 30 - 60 \cdot 13}{2} \right| = 225$$

Cevap: A

$$15. \text{I} \rightarrow (7 \cdot 9) + 4 = 63 + 4 = 67$$

$$\text{II} \rightarrow (3 \cdot 5) + 1 = 15 + 1 = 16$$

$$\text{III} \rightarrow (5 \cdot 8) + 2 = 40 + 2 = 42 \text{ bulunur.}$$

Cevap: D

$$16. \begin{array}{ccccccc} 129 & & 128 & & 63 & & 20 & & \textcircled{5} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 129 - 128 & & \frac{128}{2} - 1 & & \frac{63 - 3}{3} & & \frac{20}{4} & & = 5 \end{array}$$

Birincide tersten aynı işlemle

$$\begin{array}{ccccccc} 3 & & 12 & & 39 & & 80 & & 81 \\ \leftarrow & \leftarrow & \leftarrow & \leftarrow & \leftarrow & \leftarrow & \leftarrow & \leftarrow & \leftarrow \\ \frac{12}{4} & & \frac{39 - 3}{3} & & \frac{80}{2} - 1 & & 81 - 80 & & \end{array}$$

Cevap: A

$$\begin{aligned}
 17. \quad 17 \star 23 &= (1 + 7) \cdot [2 \cdot (2 + 3)] \\
 &= 8 \cdot 10 = 80 \\
 35 \star 17 &= (3 + 5) \cdot (2 \cdot (1 + 7)) \\
 &= 8 \cdot 16 = 128 \\
 25 \star 36 &= (2 + 5) \cdot (2 \cdot (3 + 6)) \\
 &= 7 \cdot 18 = 126 \\
 88 \star 21 &= (8 + 8) \cdot (2 \cdot (2 + 1)) \\
 &= 16 \cdot 6 = 96
 \end{aligned}$$

Cevap: D

$$\begin{aligned}
 18. \quad \text{I. tablodan} \\
 a + c &= 30 \\
 \text{II. tablodan} \\
 a \times b &= 112 \\
 + \quad b \times c &= 128 \\
 \hline
 a \cdot b + b \cdot c &= 240 \\
 b(a + c) &= 240 \\
 \underbrace{30}_{30} & \\
 b &= 8
 \end{aligned}$$

$$\begin{array}{ccc}
 \text{I.} & \text{II.} & \text{III.} \\
 \begin{array}{c} \diagup \quad \diagdown \\ 64 \quad \quad \quad \\ \diagdown \quad \diagup \\ 7 \quad \quad \quad 8 \\ \diagup \quad \diagdown \\ \quad \quad \quad 8 \end{array} & \begin{array}{c} \diagup \quad \diagdown \\ 76 \quad \quad \quad \\ \diagdown \quad \diagup \\ 3 \quad \quad \quad 4 \\ \diagup \quad \diagdown \\ \quad \quad \quad 64 \end{array} & \begin{array}{c} \diagup \quad \diagdown \\ 49 \quad \quad \quad \\ \diagdown \quad \diagup \\ 5 \quad \quad \quad 7 \\ \diagup \quad \diagdown \\ \quad \quad \quad ? \end{array} \\
 (7 \cdot 8) + 8 = 64 & (3 \cdot 4) + 64 = 76 & (5 \cdot 7) + ? = 49 \\
 & & ? = 14
 \end{array}$$

Cevap: A

$$\begin{aligned}
 20. \quad & \begin{array}{c} \overbrace{9992} \\ 9+9+9+2 \end{array} \rightarrow \begin{array}{c} \overbrace{29} \\ 2+9 \end{array} \rightarrow \begin{array}{c} \overbrace{11} \\ 1+1 \end{array} \rightarrow 2 \\
 \text{O halde} \\
 & \begin{array}{c} \overbrace{2494} \\ 2+4+9+4 \end{array} \rightarrow \begin{array}{c} \overbrace{19} \\ 1+9 \end{array} \rightarrow \begin{array}{c} \overbrace{10} \\ 1+0 \end{array} \rightarrow 1 \\
 x = 10 \text{ ve } y = 1 \text{ bulunur.}
 \end{aligned}$$

Cevap: C

$$21. \quad \bullet \rightarrow a, \quad \blacktriangle \rightarrow b, \quad \blacksquare \rightarrow c$$

$$\begin{array}{l}
 \text{I.} \quad a + 2b = 2c \\
 \text{II.} \quad + \quad a + c = 3b \\
 \hline
 2a + 2b + c = 3b + 2c \\
 2a = b + c
 \end{array}$$

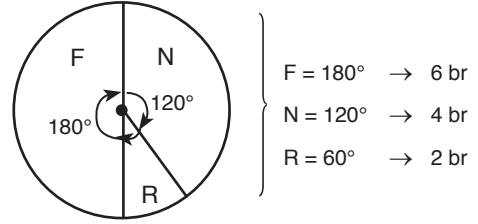
$$2a = ? \quad \blacktriangle \blacksquare \text{ olur.}$$

Cevap: C



Cevap: B

$$\begin{array}{l}
 23. \quad \text{I. grafikten} \\
 90^\circ \rightarrow 3 \text{ br} \\
 270^\circ \rightarrow 9 \text{ br} \\
 \left. \begin{array}{l} 90^\circ \rightarrow 3 \text{ br} \\ 270^\circ \rightarrow 9 \text{ br} \end{array} \right\} 30^\circ \rightarrow 1 \text{ br} \\
 \text{O halde}
 \end{array}$$



Cevap: E

$$\begin{array}{l}
 24. \quad \text{I. grafikte} \\
 K \rightarrow 3, \quad L \rightarrow 1, \quad M \rightarrow 2 \\
 \text{II. grafikte} \\
 X \rightarrow 3, \quad Y \rightarrow 1, \quad Z \rightarrow 2 \\
 \text{III. grafikte} \\
 L + Y \rightarrow 1 + 1 \rightarrow 2 \\
 K + X \rightarrow 3 + 3 \rightarrow 6 \\
 M + Z \rightarrow 2 + 2 \rightarrow 4
 \end{array}$$

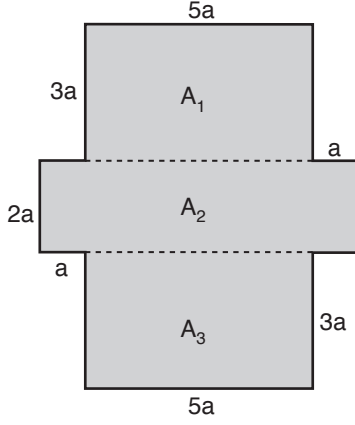
$$\begin{array}{r}
 12 \text{ br} \quad 360^\circ \text{ ise} \\
 4 \text{ br} \quad \quad ? \\
 \hline
 ? = 120^\circ
 \end{array}$$

Cevap: E

25. Şekildeki küp sayısı 17'dir.

Cevap: E

26.



$$A_1 = 3a \cdot 5a = 15a^2$$

$$A_2 = 2a \cdot 7a = 14a^2$$

$$A_3 = 3a \cdot 5a = 15a^2$$

$$\text{Taralı Alan} = 44a^2$$

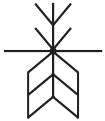
27.  $(-1)^2 \rightarrow 1$

$(-2)^2 \rightarrow 4$

$(-3)^2 \rightarrow 9$

$(-4)^2 = 16$

28. Oluşması gereken şekil



Eklenmesi gereken şekil



Cevap: E

Cevap: A

Cevap: A

29. I.  $a \star b = 2 = 2(a \square b) + 1$

II.  $a \square b = a + (a \bullet b)$

III.  $a \bullet b = a^2 + b^2$

$a \square b = a + a^2 + b^2$

$a \star b = 2(a + a^2 + b^2) + 1$

$2 \star 3 = 2(2 + 2^2 + 3^2) + 1$

$= 2 \cdot (2 + 4 + 9) + 1$

$= 30 + 1 = 31$  bulunur.

Cevap: B

30. I  $\rightarrow$

II  $\rightarrow$

III  $\rightarrow$

IV  $\rightarrow$

Cevap: D

31. I. ve II. şekilden

M - N

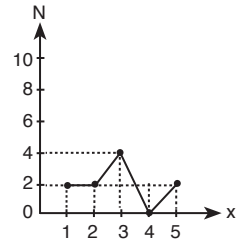
1  $\rightarrow$  2

2  $\rightarrow$  2

3  $\rightarrow$  4

4  $\rightarrow$  0

5  $\rightarrow$  2



Cevap: D

32. 1  $\rightarrow$  2

3  $\rightarrow$  5

4  $\rightarrow$  6 karşılıklı



Cevap: D

33. Örnek ifadeye göre

$$\begin{aligned} \bullet b = 3 & \quad \bullet a^2 + b^2 = 34 \\ & \quad a^2 + 3^2 = 34 \Rightarrow a^2 = 25 \\ & \quad a = 5 \end{aligned}$$

$$\begin{aligned} \bullet a^2 - c^2 = 9 \\ 5^2 - c^2 = 9 \Rightarrow c^2 = 25 - 9 = 16 \\ c = 4 \end{aligned}$$

$$\bullet d = 2$$

$$K = \frac{a+b+c}{d^2} = \frac{5+3+4}{2^2} = \frac{12}{4} = 3$$

Cevap: C

34. • b = 4

$$\begin{aligned} \bullet a^2 + b^2 = 80 \\ a^2 + 4^2 = 80 \\ a^2 = 80 - 16 = 64 \\ a = 8 \end{aligned}$$

$$\begin{aligned} \bullet a^2 - c^2 = 28 \\ 64 - c^2 = 28 \\ 36 = c^2 \\ 6 = c \end{aligned}$$

$$\bullet \frac{a+b+c}{d^2} = 2$$

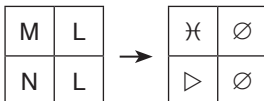
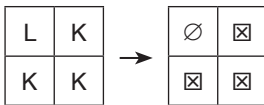
$$\frac{8+4+6}{d^2} = 2$$

$$\frac{18}{d^2} = 2$$

$$d^2 = 9 \Rightarrow d = 3$$

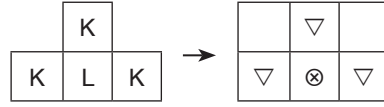
Cevap: C

35.



Cevap: A

36.



Cevap: D

37. Örnek şekilden

$$\begin{aligned} a = 3, \quad a^2b = 18, \quad \frac{d+b}{2} = 4 \\ 9 \cdot b = 18 \quad d + 2 = 8 \\ b = 2 \quad d = 6 \end{aligned}$$

$$a + 2c = 3c - 1$$

$$3 + 2c = 3c - 1$$

$$4 = c$$

$$\frac{a \cdot c}{d \cdot b} = \frac{3 \cdot 4}{2 \cdot 6} = 1$$

Cevap: A

38. • a + 2c = 10

$$\bullet \frac{a}{2} = b \Rightarrow a = 2b$$

$$\bullet \frac{d+b}{2} = c$$

$$d + b = 2c$$

$$\bullet 2a = c$$

$$\blacklozenge a + 2.2a = 10$$

$$5a = 10$$

$$a = 2$$

$$c = 2a = 4, \quad 2 = 2b$$

$$1 = b$$

$$6 + 1 = 2 \cdot 4$$

$$d = 8 - 1 = 7$$

Cevap: E

39. •  $a^2 \cdot b = 16b$

$a^2 = 16$

$a = 4$

•  $\frac{-b}{2} = b - c$

$c = \frac{3b}{2}$

$2c = 3b$

◆  $5b = 4 + 3b$

$2b = 4$

$b = 2$

$a + b + c + d = 4 + 2 + 3 + 6$

$= 15$

•  $5b = a + 2c$

$5b = 4 + 2c$

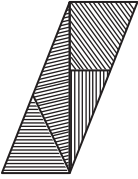
•  $2b = \frac{d+b}{2}$

$8 = d + 2$

$d = 6$

Cevap: C

40.



Cevap: E