

TEST - 1 ÇÖZÜMLER

$$\begin{array}{cccccc}
 1, & 3, & 7, & 15, & 31, & 63, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +2 & +4 & +8 & +16 & +32 & +64 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 2^1 & 2^2 & 2^3 & 2^4 & 2^5 & 2^6 &
 \end{array}$$

$$\Rightarrow x = 63 + 64 = 127$$

Cevap: C

$$\begin{array}{cccccc}
 3, & 10, & 24, & 45, & 73 & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +7 & +14 & +21 & +28 & +35 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 7.1 & 7.2 & 7.3 & 7.4 & 7.5 &
 \end{array}$$

$$\Rightarrow x = 73 + 35 = 108$$

Cevap: B

$$\begin{array}{cccccc}
 6, & 11, & 9, & 14, & 12, & 17, & x, & y \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +5 & -2 & +5 & -2 & +5 & -2 & +5 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 & & & & & & &
 \end{array}$$

$$\Rightarrow x = 17 - 2 = 15$$

$$y = x + 5 = 15 + 5 = 20$$

$$\Rightarrow x + y = 15 + 20 = 35$$

Cevap: D

$$\begin{array}{cccccc}
 5, & 1, & 7, & 3, & 21, & 17, & 119, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 -4 & \times 7 & -4 & \times 7 & -4 & \times 7 & -4 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 & & & & & & &
 \end{array}$$

$$\Rightarrow x = 119 - 4 = 115$$

Cevap: A

$$\begin{array}{cccccc}
 3, & 4, & 4, & 6, & 12, & 15, & 45, & 49, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +1 & \times 1 & +2 & \times 2 & +3 & \times 3 & +4 & \times 4 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 & & & & & & & &
 \end{array}$$

$$\Rightarrow x = 49 \times 4 = 196$$

Cevap: D

$$\begin{array}{cccccc}
 187, & 183, & 61, & 57, & 19, & 15, & 5, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 -4 & \times \frac{1}{3} & -4 & \times \frac{1}{3} & -4 & \times \frac{1}{3} & -4 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 & & & & & & &
 \end{array}$$

$$\Rightarrow x = 5 - 4 = 1$$

Cevap: B

$$\begin{array}{cccccc}
 1, & 2, & 5, & 14, & 41, & 122, & 365, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +3^0 & +3^1 & +3^2 & +3^3 & +3^4 & +3^5 & +3^6 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 & & & & & & &
 \end{array}$$

$$\Rightarrow x = 365 + 3^6 = 365 + 729 = 1094$$

Cevap: D

$$\begin{array}{cccccc}
 3, & 8, & 11, & 19, & 30, & 49, & 79, & x \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\
 3+8 & & 11+19 & & 30+49 & & 49+79 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 8+11 & & 19+30 & & 49+79 & & &
 \end{array}$$

$$\Rightarrow x = 49 + 79 = 128$$

Cevap: B

$$\begin{array}{cccccc}
 211, & 174, & 142, & 115, & 93, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 -37 & -32 & -27 & -22 & -17 & \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 -5 & -5 & -5 & -5 & &
 \end{array}$$

$$\Rightarrow x = 93 - 17 = 76$$

Cevap: A

$$\begin{array}{cccccc}
 17, & 19, & 24, & 32, & 43, & 57, & x \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +2 & +5 & +8 & +11 & +14 & +17 & \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \\
 +3 & +3 & +3 & +3 & +3 & &
 \end{array}$$

$$\Rightarrow x = 57 + 17 = 74$$

Cevap: D

TEST - 1 ÇÖZÜMLER

$$11. \quad 3, \quad 15, \quad 10, \quad 40, \quad 36, \quad 108, \quad 105, \quad x$$

$$\quad \quad \quad \xrightarrow{x5} \quad \xrightarrow{-5} \quad \xrightarrow{x4} \quad \xrightarrow{-4} \quad \xrightarrow{x3} \quad \xrightarrow{-3} \quad \xrightarrow{x2}$$

$$\Rightarrow x = 105 \times 2 = 210$$

Cevap: A

$$12. \quad 7, \quad 8, \quad 12, \quad 21, \quad 37, \quad 62, \quad 98, \quad x$$

$$\quad \quad \quad \xrightarrow{+1^2} \quad \xrightarrow{+2^2} \quad \xrightarrow{+3^2} \quad \xrightarrow{+4^2} \quad \xrightarrow{+5^2} \quad \xrightarrow{+6^2} \quad \xrightarrow{+7^2}$$

$$\Rightarrow x = 98 + 7^2 = 98 + 49 = 147$$

Cevap: B

$$13. \quad 2, \quad 6, \quad 15, \quad 34, \quad 73, \quad 152, \quad 311, \quad x$$

$$\quad \quad \quad \xrightarrow{(+4)} \quad \xrightarrow{(+9)} \quad \xrightarrow{(+19)} \quad \xrightarrow{(+39)} \quad \xrightarrow{(+79)} \quad \xrightarrow{(+159)}$$

$$\quad \quad \quad \xrightarrow{+5.1} \quad \xrightarrow{+5.2} \quad \xrightarrow{+5.4} \quad \xrightarrow{+5.8} \quad \xrightarrow{+5.16} \quad \xrightarrow{+5.32}$$

$$\Rightarrow x = 311 + 5.32 = 311.160 = 471$$

Cevap: E

$$14. \quad 8, \quad 9, \quad 7, \quad 21, \quad 25, \quad 20, \quad 120, \quad x$$

$$\quad \quad \quad \xrightarrow{+1} \quad \xrightarrow{-2} \quad \xrightarrow{x3} \quad \xrightarrow{+4} \quad \xrightarrow{-5} \quad \xrightarrow{x6} \quad \xrightarrow{+7}$$

$$\Rightarrow x = 120 + 7 = 127$$

Cevap: B

$$15. \quad 3, \quad 5, \quad 9, \quad 17, \quad 33, \quad 65, \quad x$$

$$\quad \quad \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$

$$\quad \quad \quad 2.(5) - 1 \quad 2.(17) - 1 \quad 2.(65) - 1$$

$$\quad \quad \quad \downarrow \quad \downarrow \quad \downarrow$$

$$\quad \quad \quad 2.(3) - 1 \quad 2.(9) - 1 \quad 2.(33) - 1$$

$$\Rightarrow x = 2.65 - 1 = 129$$

Cevap: D

$$16. \quad 3, \quad 10, \quad 31, \quad 94, \quad 283, \quad 850, \quad x$$

$$\quad \quad \quad \xrightarrow{+7.3^0} \quad \xrightarrow{+7.3^1} \quad \xrightarrow{+7.3^2} \quad \xrightarrow{+7.3^3} \quad \xrightarrow{+7.3^4} \quad \xrightarrow{+7.3^5}$$

$$\quad \quad \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$

$$\quad \quad \quad +7 \quad +21 \quad +63 \quad +189 \quad +567 \quad +1701$$

$$\Rightarrow x = 850 + 1701 = 2551$$

Cevap: C

$$17. \quad 3, \quad 7, \quad 17, \quad 43, \quad 113, \quad x$$

$$\quad \quad \quad \xrightarrow{3(3)-2} \quad \xrightarrow{3(7)-2^2} \quad \xrightarrow{3(17)-2^3} \quad \xrightarrow{3(43)-2^4} \quad \xrightarrow{3(113)-2^5}$$

$$\Rightarrow x = 3.113 - 2^5 = 339 - 32 = 307$$

Cevap: B

$$18. \quad 3, \quad 3, \quad 6, \quad 18, \quad 72, \quad 360, \quad x$$

$$\quad \quad \quad \xrightarrow{x1} \quad \xrightarrow{x2} \quad \xrightarrow{x3} \quad \xrightarrow{x4} \quad \xrightarrow{x5} \quad \xrightarrow{x6}$$

$$\Rightarrow x = 360 \times 6 = 2160$$

Cevap: E

$$19. \quad 11, \quad 8, \quad 16, \quad x, \quad 26, \quad 23, \quad 46$$

$$\quad \quad \quad \xrightarrow{-3} \quad \xrightarrow{x2} \quad \xrightarrow{-3} \quad \xrightarrow{x2} \quad \xrightarrow{-3} \quad \xrightarrow{x2}$$

$$\Rightarrow x = 16 - 3 = 13$$

Cevap: B

$$20. \quad 1, \quad 3, \quad 9, \quad 11, \quad x, \quad 35, \quad 105, \quad 107, \quad y$$

$$\quad \quad \quad \xrightarrow{+2} \quad \xrightarrow{x3} \quad \xrightarrow{+2} \quad \xrightarrow{x3} \quad \xrightarrow{+2} \quad \xrightarrow{x3} \quad \xrightarrow{+2} \quad \xrightarrow{x3}$$

$$\Rightarrow x = 11 \times 3 = 33$$

$$y = 107 \times 3 = 321$$

Cevap: A

TEST - 2 ÇÖZÜMLER

$$1. \quad 4, \quad 10, \quad 17, \quad x, \quad 34, \quad 44, \quad 55$$

$$\quad \quad \quad \xrightarrow{+6} \quad \xrightarrow{+7} \quad \xrightarrow{+8} \quad \xrightarrow{+9} \quad \xrightarrow{+10} \quad \xrightarrow{+11}$$

$$\Rightarrow x = 17 + 8 = 25$$

Cevap: A

$$2. \quad 11, \quad 3, \quad 13, \quad 32, \quad 15, \quad ab, \quad 35$$

$$\quad \quad \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$

$$\quad \quad \quad \textcircled{3} \quad \quad \quad \textcircled{5} \quad \quad \quad \textcircled{7}$$

$$1+1=\textcircled{2} \quad 1+3=\textcircled{4} \quad 1+5=\textcircled{6} \quad 3+5=\textcircled{8}$$

$$\Rightarrow a + b = 7 \Rightarrow ab = 25$$

Cevap: C

$$3. \quad a_1 \quad a_2 \quad a_3 \quad a_4 \quad a_5 \quad a_6 \quad a_7 \quad a_8$$

$$2 \quad 3 \quad 5 \quad 8 \quad x \quad 21 \quad 34 \quad 55$$

$$\Rightarrow a_n = a_{n-1} + a_{n-2}$$

$$a_3 = a_2 + a_1 = 3 + 2 = 5$$

$$a_4 = a_3 + a_2 = 5 + 3 = 8$$

$$a_5 = a_4 + a_3 = 8 + 5 = 13 = x$$

Cevap: C

$$4. \quad 1, \quad 4, \quad 0, \quad 5, \quad 20, \quad 16, \quad x, \quad 84, \quad 80, \quad 85$$

$$\quad \quad \quad \xrightarrow{\times 4} \quad \xrightarrow{-4} \quad \xrightarrow{+5} \quad \xrightarrow{\times 4} \quad \xrightarrow{-4} \quad \xrightarrow{+5} \quad \xrightarrow{\times 4} \quad \xrightarrow{-4} \quad \xrightarrow{+5}$$

$$\Rightarrow x = 16 + 5 = 21$$

Cevap: E

$$5. \quad 2, \quad 36, \quad 2\sqrt{2}, \quad 100, \quad 2\sqrt{3}, \quad 196, \quad x$$

$$\quad \quad \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$

$$\quad \quad \quad \sqrt{4} \quad \textcircled{6^2} \quad \sqrt{8} \quad \textcircled{10^2} \quad \sqrt{12} \quad \textcircled{14^2} \quad \sqrt{16}$$

$$\Rightarrow x = \sqrt{16} = 4$$

Cevap: B

$$6. \quad \boxed{4}7 \xrightarrow{\frac{4}{2} \cdot 7 = 14} 14$$

$$\boxed{4}9 \xrightarrow{\frac{4}{2} \cdot 9 = 18} 18$$

$$\boxed{2}3 \xrightarrow{\frac{2}{2} \cdot 3} 3$$

$$\boxed{2}9 \xrightarrow{\frac{2}{2} \cdot 9 = 9} 9$$

Cevap: B

$$7. \quad \boxed{3} \xrightarrow{\boxed{3} \cdot 4 + 1} 13 \quad 13 \quad \boxed{5} \xrightarrow{\boxed{5} \cdot 4 + 1} 21 \quad 23$$

$$\quad \quad \quad \xrightarrow{\boxed{3} \cdot 5 - 2} \quad \quad \quad \xrightarrow{\boxed{5} \cdot 5 - 2}$$

$$\boxed{9} \xrightarrow{\boxed{9} \cdot 4 + 1} 37 \quad x \quad \boxed{11} \xrightarrow{\boxed{11} \cdot 4 + 1} y \quad 53$$

$$\quad \quad \quad \xrightarrow{\boxed{9} \cdot 5 - 2} \quad \quad \quad \xrightarrow{\boxed{11} \cdot 5 - 2}$$

$$x = 43 \quad y = 45$$

Cevap: C

$$8. \quad 5 + 4 - 1 = 8$$

$$7 + 3 - 3 = 7$$

$$3 + 11 - 1 = 13$$

$$1 + 5 - 7 = -1$$

Cevap: B

TEST - 2 ÇÖZÜMLER

9. $3 \xrightarrow{+5} 8 \xrightarrow{\times 5} 40 \xrightarrow{-5} 35$
 $3 \xrightarrow{+7} 10 \xrightarrow{\times 7} 70 \xrightarrow{-7} 63$
 $3 \xrightarrow{+9} 12 \xrightarrow{\times 9} 108 \xrightarrow{-9} 99$
 $3 \xrightarrow{+11} x \xrightarrow{\times 11} y \xrightarrow{-11} z$
 $\Rightarrow x = 3 + 11 = 14$
 $y = x \cdot 11 = 14 \cdot 11 = 154$
 $z = y - 11 = 154 - 11 = 143$

Cevap: E

10. $12 \quad 9 \quad 54 \rightarrow \frac{12}{2} \cdot 9 = 54$
 $14 \quad 8 \quad 56 \rightarrow \frac{14}{2} \cdot 8 = 56$
 $x \quad 3 \quad 42 \rightarrow \frac{x}{2} \cdot 3 = 42$
 $\Rightarrow \frac{x}{2} \cdot 3 = \frac{14}{2} \cdot 3 \rightarrow x = 28$

Cevap: B

11. $3 \quad 7 \quad 3 \quad 24 \rightarrow 3 \cdot 7 + 3 = 24$
 $5 \quad 1 \quad 8 \quad 13 \rightarrow 5 \cdot 1 + 8 = 13$
 $7 \quad 2 \quad 1 \quad x \rightarrow 7 \cdot 2 + 1 = x$
 $\Rightarrow x = 7 \cdot 2 + 1 = 15$

Cevap: D

12. $4 \quad 2 \quad 8 \quad 16$
 $\quad \quad \quad \downarrow \quad \downarrow$
 $\quad \quad \quad 4.2 \quad 2.8$
 $5 \quad 3 \quad 15 \quad 45$
 $\quad \quad \quad \downarrow \quad \downarrow$
 $\quad \quad \quad 5.3 \quad 3.15$
 $1 \quad 3 \quad 3 \quad 9$
 $\quad \quad \quad \downarrow \quad \downarrow$
 $\quad \quad \quad 1.3 \quad 3.3$
 $2 \quad 3 \quad x \quad y$
 $\quad \quad \quad \downarrow \quad \downarrow$
 $\quad \quad \quad 2.3 \quad 3.x$
 $\Rightarrow x = 2 \cdot 3 = 6$
 $y = 3 \cdot x = 3 \cdot 6 = 18$

Cevap: B

TASARI EĞİTİM YAYINLARI

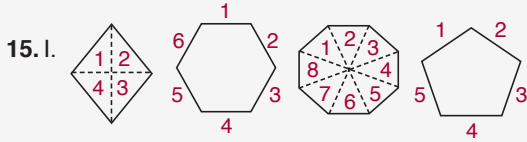
13. $2 \quad 4 \quad 5 \quad 1 \rightarrow (2 + 4), (5 + 1) \rightarrow 6,6$
 $7 \quad 1 \quad 4 \quad 3 \rightarrow (7 + 1), (4 + 3) \rightarrow 8,7$
 $3 \quad 0 \quad 0 \quad 5 \rightarrow (3 + 0), (0 + 5) \rightarrow 3,5$

Cevap: B

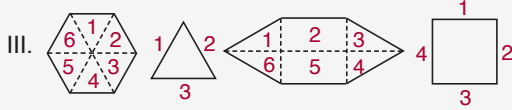
14. I. $3 \quad 3 \quad 1 \quad x \quad -1 \quad -3 \quad -7$
 $\quad \quad \quad \curvearrowright \quad \curvearrowright \quad \curvearrowright \quad \curvearrowright \quad \curvearrowright$
 $\quad \quad \quad x1 \quad -2 \quad x2 \quad -3 \quad x3 \quad -4$
 II. $-5 \quad -5 \quad -3 \quad y \quad -3 \quad -9 \quad -5$
 $\quad \quad \quad \curvearrowright \quad \curvearrowright \quad \curvearrowright \quad \curvearrowright \quad \curvearrowright$
 $\quad \quad \quad x1 \quad +2 \quad x2 \quad +3 \quad x3 \quad +4$
 $\Rightarrow x = 1 \times 2 = 2$
 $y = -3 \times 2 = -6$

Cevap: E

TEST - 2 ÇÖZÜMLER



II. 4^2 , $\sqrt{6}$, 8^2 , $\sqrt{5}$



IV. $6^2 = 36$, $\sqrt{3}$, $6^2 = 36$, $\sqrt{4} = 2$

Cevap: E

16. 71 (70) 69 $\rightarrow (70) = \frac{71 + 69}{2}$

213 (x) 137 $\rightarrow (x) = \frac{213 + 137}{2}$

$\Rightarrow (x) = \frac{213 + 137}{2} = \frac{350}{2} = 175$

Cevap: B

17. 111 (20) 71 $\rightarrow (20) = \frac{111 - 71}{2}$

119 (x) 73 $\rightarrow (x) = \frac{119 - 73}{2}$

$\Rightarrow (x) = \frac{119 - 73}{2} = \frac{46}{2} = 23$

Cevap: C

18. 28 (80) 17 $\rightarrow (80) = (2 + 8) \cdot (1 + 7)$

41 (x) 23 $\rightarrow (x) = (4 + 1) \cdot (2 + 3)$

$\Rightarrow (x) = (4 + 1) \cdot (2 + 3) = 5 \cdot 5 = 25$

Cevap: A

19. 7 (169) 6 $\rightarrow (169) = (7 + 6)^2$

11 (x) 3 $\rightarrow (x) = (11 + 3)^2$

$\Rightarrow (x) = (11 + 3)^2 = 14^2 = 196$

Cevap: E

20. 147 (13) 113 $\rightarrow (13) = \frac{147 + 113}{20}$

121 (x) 119 $\rightarrow (x) = \frac{121 + 119}{20}$

$\Rightarrow (x) = \frac{121 + 119}{20} = \frac{240}{20} = 12$

Cevap: A

TEST - 3 ÇÖZÜMLER

$$1. \quad 2160, 360, x, 18, 6, 3$$

$$\begin{array}{cccccc} & \xrightarrow{x \frac{1}{6}} & \xrightarrow{x \frac{1}{5}} & \xrightarrow{x \frac{1}{4}} & \xrightarrow{x \frac{1}{3}} & \xrightarrow{x \frac{1}{2}} \\ & & & & & \end{array}$$

$$\Rightarrow x = 360 = \frac{1}{5} = 72$$

Cevap: D

$$2. \quad 11, 22, x, 5, 10, -2, -1$$

$$\begin{array}{cccccc} & \xrightarrow{\times 2} & \xrightarrow{-12} & \xrightarrow{x \frac{1}{2}} & \xrightarrow{\times 2} & \xrightarrow{-12} & \xrightarrow{x \frac{1}{2}} \\ & & & & & & \end{array}$$

$$\Rightarrow x = 22 - 12 = 10$$

Cevap: B

$$3. \quad 5, 7, x, 11, 7, 15, 8, y, 9$$

$$\begin{array}{cccccc} & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} \\ & \xrightarrow{+1} & \xrightarrow{+1} & \xrightarrow{+1} & \xrightarrow{+1} & \xrightarrow{+1} \\ & & & & & \end{array}$$

$$\Rightarrow x = 5 + 1 = 6$$

$$y = 15 + 4 = 19$$

Cevap: E

$$4. \quad 7, 12, 19, 30, 47, 74, 117, x$$

$$\begin{array}{cccccc} & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 7 + 12 - 0 & 19 + 30 - 2 & 47 + 74 - 4 & & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & 12 + 19 - 1 & 30 + 47 - 3 & 74 + 117 - 5 & & \end{array}$$

$$\Rightarrow x = 74 + 117 - 5 = 186$$

Cevap: E

$$5. \quad 8, 7, 12, 15, 16, 23, 20, 31, x, y$$

$$\begin{array}{cccccc} & \xrightarrow{+8} & \xrightarrow{+8} & \xrightarrow{+8} & \xrightarrow{+8} & \xrightarrow{+8} \\ & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} \\ & & & & & \end{array}$$

$$\Rightarrow x = 20 + 4 = 24$$

$$y = 31 + 8 = 39$$

Cevap: A

$$6. \quad 13, 11, 13, 13, 17, 17, 25, 19, 37, x, y$$

$$\begin{array}{cccccc} & \xrightarrow{+2} & \xrightarrow{+4} & \xrightarrow{+2} & \xrightarrow{+4} & \xrightarrow{+4} \\ & \xrightarrow{+0} & \xrightarrow{+4} & \xrightarrow{+8} & \xrightarrow{+12} & \xrightarrow{+16} \\ & & & & & \end{array}$$

$$\Rightarrow x = 19 + 4 = 23$$

$$y = 37 + 16 = 53$$

Cevap: C

$$7. \quad 5, 5, 10, 13, 25, 29, 50, 53, 85, 85, x, y$$

$$\begin{array}{cccccc} & \uparrow +8 & \uparrow +16 & \uparrow +24 & \uparrow +32 & \uparrow +40 \\ & \xrightarrow{+8.1} & \xrightarrow{+8.2} & \xrightarrow{+8.3} & \xrightarrow{+8.4} & \xrightarrow{+8.5} \\ & \downarrow +5 & \downarrow +15 & \downarrow +25 & \downarrow +35 & \downarrow +45 \\ & & & & & \end{array}$$

$$\Rightarrow x = 85 + 45 = 130$$

$$y = 85 + 40 = 125$$

Cevap: C

$$8. \quad 12 - 6 = \textcircled{6} \quad 48 - 38 = \textcircled{10}$$

$$\begin{array}{ccccc} & \uparrow & & \uparrow & \\ \text{I:} & \begin{array}{|c|c|c|c|c|} \hline x & 12 & 24 & 48 & 96 \\ \hline \end{array} & & & & \\ \text{II:} & \begin{array}{|c|c|c|c|c|} \hline 3 & 6 & y & 38 & 84 \\ \hline \end{array} & & & & \\ & \downarrow & & \downarrow & \downarrow & \\ & x - 3 = \textcircled{4} & & 24 - y = \textcircled{8} & 96 - 84 = \textcircled{12} & \\ & x = 7 & & y = 16 & & \end{array}$$

Cevap: D

$$9. \quad \begin{array}{|c|c|c|c|c|} \hline 3 & 9 & 27 & 81 & 243 \\ \hline 15 & 36 & x & 162 & y \\ \hline \end{array}$$

$$\begin{array}{ccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3.(5) & 9.(4) & 27.(3) & 81.(2) & 243.(1) \end{array}$$

$$\Rightarrow x = 27.3 = 81$$

$$y = 243.1 = 243$$

Cevap: C

TEST - 3 ÇÖZÜMLER

10.

x	14	22	42	74
24	y	30	84	82

$x + (8) = 24$ $14 \times (2)$ $22 + (8)$ $42 \times (2)$ $74 + (8)$
 $\Rightarrow x + 8 = 24$, $x = 16$
 $14 \times 2 = y$, $y = 28$

Cevap: B

11.

	-10	-9	-8	-7	
	↘	↘	↘	↘	
63 x 2	63	53	44	x	29
	126	106	88	y	58
					29 x 2

$\Rightarrow x = 44 - 8 = 36$
 $y = 2 \cdot x = 2 \cdot 36 = 72$

Cevap: A

12.

	+3 ¹	+3 ²	+3 ³	+3 ⁴	
	↘	↘	↘	↘	
2.(4) - 3 = 5	4	7	16	43	x
	5	11	29	83	y

$2(7) - 3 = 11$ $2(43) - 3 = 83$
 $2(16) - 3 = 29$
 $\Rightarrow x = 43 + 3^4 = 43 + 81 = 124$
 $y = 2 \cdot (x) - 3 = 2 \cdot 124 - 3 = 245$

Cevap: D

13.

3	11	27	19	54	x
4	13	31	y	80	121

$13 - 11 = 2^1$ $y - 19 = 2^3$ $121 - x = 2^5$
 $4 - 3 = 2^0$ $31 - 27 = 2^2$ $26 - 54 = 2^4$
 $\Rightarrow 121 - x = 2^5$, $121 - x = 32$, $x = 89$
 $\Rightarrow y - 19 = 2^6$, $y - 19 = 64$, $y = 83$

Cevap: E

14.

	$x \frac{1}{7}$	$x \frac{1}{6}$	$x \frac{1}{5}$	$x \frac{1}{4}$	
	↘	↘	↘	↘	
14.	$\frac{3360}{35}$	$\frac{480}{28}$	$\frac{80}{22}$	$\frac{16}{17}$	$\frac{x}{y}$
	↘	↘	↘	↘	
	-7	-6	-5	-4	

$\Rightarrow x = 16 \times \frac{1}{4} = 4$
 $y = 17 - 4 = 13$

Cevap: E

15.

$\frac{6}{x^2}$	$\frac{12}{x^3}$	$\frac{36}{x^2}$	$\frac{72}{x^3}$	$\frac{x}{y}$
$\frac{36}{x^2}$	$\frac{18}{x^3}$	$\frac{6}{x^2}$	$\frac{3}{x^3}$	$\frac{y}{x}$

$\Rightarrow x = 72 \times 3 = 216$
 $y = 3 \cdot \frac{1}{3} = 1$

Cevap: D

TEST - 3 ÇÖZÜMLER

16. $\frac{212}{x \frac{1}{2}} \rightarrow 106 \xrightarrow{+4} 110 \xrightarrow{x \frac{1}{2}} 55 \xrightarrow{+4} x$

$\frac{77}{y} \xrightarrow{+11} 88 \xrightarrow{+13} 101 \xrightarrow{+15} 116 \xrightarrow{+17} y$

$\Rightarrow x = 55 + 4 = 59$
 $y = 116 + 17 = 133$

Cevap: A

17. $7.3 = 21$ $\left\{ \begin{array}{|c|c|c|c|c|} \hline 7 & 9 & x & 21 & 17 \\ \hline 21 & y & 33 & 63 & 51 \\ \hline 26 & 32 & 38 & z & 56 \\ \hline \end{array} \right. \begin{array}{l} 17.3 = 51 \\ 51+5 = 56 \end{array}$

$21+5 = 26$

$\Rightarrow 9.3 = y, y = 27$
 $x.3 = 33, x = 11$
 $63 + 5 = z, z = 68$

Cevap: C

18. $\begin{array}{cccccc} & \xrightarrow{x3} & \xrightarrow{-2} & \xrightarrow{x3} & \xrightarrow{-2} & \xrightarrow{x3} \\ 5 & 15 & 13 & 39 & 37 & 111 \\ & \xrightarrow{x4} & \xrightarrow{-3} & \xrightarrow{x4} & \xrightarrow{-3} & \xrightarrow{x4} \\ 3 & 12 & 9 & 36 & 33 & 132 \end{array} \Rightarrow \begin{array}{l} x3 \xrightarrow{+1} x4 \\ -2 \xrightarrow{-1} -3 \end{array}$

$\begin{array}{cccccc} & \xrightarrow{x4} & \xrightarrow{-1} & \xrightarrow{x4} & \xrightarrow{-1} & \xrightarrow{x4} \\ 1 & 4 & 3 & 12 & 11 & 44 \\ & \xrightarrow{+x} & \xrightarrow{-y} & \xrightarrow{+x} & \xrightarrow{-y} & \xrightarrow{+x} \\ ? & ? & ? & ? & ? & ? \end{array} \Rightarrow \begin{array}{l} x4 \xrightarrow{+1} x5 \\ -1 \xrightarrow{-1} -2 \end{array}$

D) $\begin{array}{cccccc} & \xrightarrow{x5} & \xrightarrow{-2} & \xrightarrow{x5} & \xrightarrow{-2} & \xrightarrow{x5} \\ 7 & 35 & 33 & 165 & 163 & 815 \end{array}$

Cevap: D

19. $\begin{array}{cccccc} & \xrightarrow{-7} & \xrightarrow{+5} & \xrightarrow{-7} & \xrightarrow{+5} & \xrightarrow{-7} \\ 21 & 14 & 19 & 12 & 17 & 10 \\ & \xrightarrow{+5} & \xrightarrow{-7} & \xrightarrow{+5} & \xrightarrow{-7} & \xrightarrow{+5} \\ 13 & 18 & 11 & 16 & 9 & 14 \end{array} \Rightarrow \begin{array}{l} -7 \xrightarrow{+5} \\ +5 \xrightarrow{-7} \end{array}$

$\begin{array}{cccccc} & \xrightarrow{-3} & \xrightarrow{+8} & \xrightarrow{-3} & \xrightarrow{+8} & \xrightarrow{-3} \\ 8 & 5 & 13 & 10 & 18 & 15 \\ & \xrightarrow{x} & \xrightarrow{y} & \xrightarrow{x} & \xrightarrow{y} & \xrightarrow{x} \\ ? & ? & ? & ? & ? & ? \end{array} \Rightarrow \begin{array}{l} -3 \xrightarrow{+8} \\ +8 \xrightarrow{-3} \end{array}$

$\Rightarrow x = +8, y = -3$

B) $\begin{array}{cccccc} & \xrightarrow{+8} & \xrightarrow{-3} & \xrightarrow{+8} & \xrightarrow{-3} & \xrightarrow{+8} \\ 7 & 15 & 12 & 20 & 17 & 25 \end{array}$

Cevap: B

20. $\begin{array}{cccccc} & \xrightarrow{x4} & \xrightarrow{+4} & \xrightarrow{x4} & \xrightarrow{+4} & \\ 1 & 4 & 8 & 32 & 36 & \\ & \xrightarrow{\div 4} & \xrightarrow{-4} & \xrightarrow{\div 4} & \xrightarrow{-4} & \\ 64 & 16 & 12 & 3 & -1 & \end{array} \Rightarrow \begin{array}{l} x4 \xrightarrow{+4} \\ \div 4 \xrightarrow{-4} \end{array}$

$\begin{array}{cccccc} & \xrightarrow{x5} & \xrightarrow{+5} & \xrightarrow{x5} & \xrightarrow{+5} & \\ 7 & 35 & 40 & 200 & 205 & \\ & \xrightarrow{x} & \xrightarrow{y} & \xrightarrow{x} & \xrightarrow{y} & \\ ? & ? & ? & ? & ? & \end{array} \Rightarrow \begin{array}{l} x5 \xrightarrow{+5} \\ x \xrightarrow{y} \end{array}$

$\Rightarrow x = \div 5, y = -5$

A) $\begin{array}{cccccc} & \xrightarrow{\div 5} & \xrightarrow{-3} & \xrightarrow{\div 5} & \xrightarrow{-3} & \\ 100 & 20 & 15 & 3 & -2 & \end{array}$

Cevap: A