

1.

+	a	b	c
a			
b	20	c	54
c			

$c - a = ?$

Tabloya göre

$b + a = 20$

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

$b + c = 54$

i) $b + 2b = 54$

$3b = 54$

$b = 18 \Rightarrow c = 2b = 2 \cdot 18 = 36$

ii) $b + a = 20$

$18 + a = 20$

$a = 2$

O halde $c - a = 36 - 2 = 34$ bulunur.

3.

+	a	b	c
a			12
b	15		
c		a	

Tablodan; $a + c = 12$, $b + a = 15$, $c + b = a$

$$\begin{array}{r} a + c = 12 \\ + \quad b + a = 15 \\ \hline 2a + b + c = 27 \\ \quad \quad \quad \underbrace{\hspace{2cm}}_a \\ 3a = 27 \\ a = 9 \text{ bulunur.} \end{array}$$

Cevap: C

Cevap: A

TASARI EĞİTİM YAYINLARI

2.

+	a	b	c
a			
b		20	3a
c	b		

$a, b, c \in \mathbb{Z}^+ \Rightarrow a = ?$

Toplam tablosundan,

i) $c + a = b$

$c + a = 10$

ii) $b + b = 20$

$2b = 20$

$b = 10$

iii) $b + c = 3a$

$10 + c = 3a$

$3a - c = 10$

• $3a - c = 10$

$+ \quad a + c = 10$

$\hline 4a = 20$

$a = 5 \text{ bulunur.}$

Cevap: D

4.

x	a	b
a	a+12	
b		6a+1

$b = ?$

Tablodan

$a \cdot a = a + 12$

$a^2 = a + 12$

$a^2 - a = 12$

$a(a - 1) = 12$

↓

4

3

$b \cdot b = 6a + 1$

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

$b^2 = 24 + 1 = 25$

$b = 5$

Cevap: B

5.

X	a	b	c	d
a		6.d		
b				
c	3.a		9.a	12
d				

$$a + b + c + d = ?$$

$$\begin{aligned} \text{i) } a \cdot c &= 3 \cdot a \\ c &= 3 \end{aligned}$$

$$\begin{aligned} \text{ii) } c \cdot c &= 9a \\ c^2 &= 9 \cdot a \\ 3^2 &= 9 \cdot a \Rightarrow a = 1 \end{aligned}$$

$$\begin{aligned} \text{iii) } c \cdot d &= 12 \\ 3 \cdot d &= 12 \\ d &= 4 \end{aligned}$$

$$\begin{aligned} \text{iv) } a \cdot b &= 6 \cdot d \\ 1 \cdot b &= 6 \cdot 4 \\ b &= 24 \end{aligned}$$

$$a + b + c + d = 1 + 24 + 3 + 4 = 32$$

Cevap: E

6. $a \times c = a \cdot c$

x	a	b	c
a		c	
b			36.a
c	25.b		

$$\begin{aligned} a, b, c > 0 \\ a + b + c &= ? \end{aligned}$$

$$a \cdot b = c$$

$$b \cdot c = 36 \cdot a$$

$$x \quad c \cdot a = 25 \cdot b$$

$$\hline a^2 \cdot b^2 \cdot c^2 = 36 \cdot 25 \cdot a \cdot b \cdot c$$

$$a \cdot b \cdot c = 36 \cdot 25$$

$$36 \cdot a$$

$$a^2 = 25 \Rightarrow a = 5$$

$$\text{i) } 5 \cdot b = c$$

$$\text{ii) } b \cdot 5 \cdot b = 36 \cdot 5$$

$$b^2 = 36 \Rightarrow b = 6$$

$$\text{iii) } c = 5 \cdot 6 = 30$$

O halde;

$$a + b + c = 5 + 6 + 30 = 41$$

Cevap: B

7.

B	+	A	-	2	= 16
x		x		+	
2	+	B	-	C	= 4
x		x		-	
E	-	8	+	D	= 3
64		640		1	

$$\begin{aligned} \bullet A + B - 2 &= 16 &\Rightarrow A + B &= 18 \\ B - C + 2 &= 4 &\Rightarrow B - C &= 2 \\ E + D - 8 &= 3 &\Rightarrow E + D &= 11 \\ C - D + 2 &= 1 &\Rightarrow C - D &= -1 \\ A \times B \times 8 &= 640 &\Rightarrow A \times B &= 80 \\ B \times 2 \times E &= 64 &\Rightarrow B \times E &= 32 \end{aligned}$$

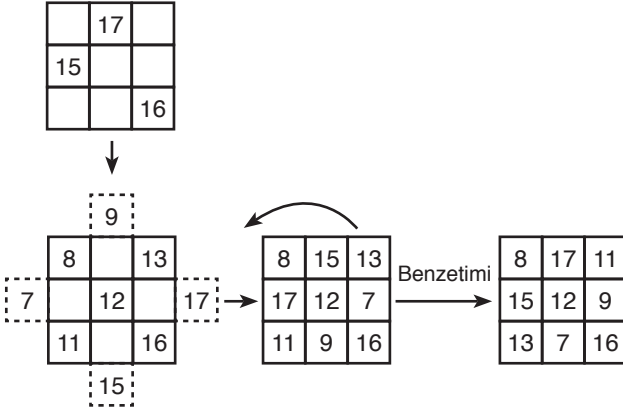
$$\begin{array}{cc} A \times B = 80 & B \times E = 32 \\ \downarrow \downarrow & \downarrow \downarrow \\ 10 \ 8 & 8 \ 4 \end{array}$$

$$A = 10, \quad B = 8, \quad C = 6, \quad D = 7, \quad E = 4$$

$$A - B + C + D - E = 10 - 8 + 6 + 7 - 4 = 11$$

Cevap: A

8.



Ortadaki sayı 12'dir veya sayıları topla

$$7 + 8 + 9 + 11 + 12 + 13 + 15 + 16 + 17 = 108$$

$$3'e \text{ böl } \frac{108}{3} = 36 \text{ (bir satır, sütun ve köşegen toplam)}$$

bir daha 3'e böl çıkan sonucu tam ortadaki sayı bulunur.

$$\frac{36}{3} = \textcircled{12} \text{ bulunur.}$$

Cevap: B

9.

+	● ●	△
●		● ● ●
△	■	

$$\begin{aligned} \bullet \text{●} + \text{△} &= \text{●●●} \Rightarrow \text{△} = \text{●●} \\ \text{△} + \text{●●} &= \text{■} \\ \text{△} + \text{△} + \text{■} &= \text{●●●●●●●●} \\ &\quad \quad \quad \text{■} \quad \text{△●●} \end{aligned}$$

Cevap: E

10.

+	● ●	■ ■
●		△ △ △
△	■	

$$\begin{aligned} \bullet \text{●} + \text{■ ■} &= \text{△ △ △} \\ \text{△} + \text{●●} &= \text{■} \\ \bullet \text{●} = x, \quad \text{■} &= y, \quad \text{△} = z \text{ olsun} \end{aligned}$$

$$x + 2y = 3z \quad \text{bize} \quad y + z = ?$$

$$z + 2x = y$$

Buradan

$$3z - 2y = x$$

$$2/ \quad y - z = 2x$$

$$3z - 2y = x$$

$$+ \quad 2y - 2z = 4x$$

$$z = 5x$$

$$3.5x - 2y = x$$

$$14x = 2y$$

$$7x = y$$

$$y + z = 7x + 5x = 12x \text{ yani 12 tane } \text{●} \text{ olacak}$$

Cevap: E

11.

x	a	b	c	d
a			18	
b	8			
c				36
d		16		

$$a \times b \times c \times d = ?$$

$$a.c = 18$$

$$a.b = 8$$

$$c.d = 36$$

$$d.b = 16$$

$$a^2.b^2.c^2.d^2 = 2^2.3^2.6^2.8^2$$

$$a.b.c.d = 2.3.6.8$$

$$= 288$$

Cevap: C

12.

+	2	2	1	1
	4	4	2	2
	3	0	1	5
	9	6	4	?

İlk iki satırdaki sayıları topla son satırdaki sayıdan çıkar

$$9 - (4 + 2) = 3 \text{ (3. satırdaki sayı)}$$

$$6 - (4 + 2) = 0$$

$$4 - (1 + 2) = 1$$

$$x - (1 + 2) = 5 \Rightarrow x = 8$$

Cevap: E

13.

	7	10	9	6
Topla	5	1	3	7
	2	3	2	1
Çıkar	4	12	8	?

$$(I. \text{ satır} + III. \text{ satır}) - (IV. \text{ satır}) = III. \text{ satır}$$

$$(7 + 2) - 4 = 5$$

$$(10 + 3) - 12 = 1$$

$$(9 + 2) - 3 = 8$$

$$(6 + 1) - 7 = 0$$

Cevap: A

14.

X	a	b	c
a		24	
b			6
c	36		

$$a.b = 24, \quad b.c = 6, \quad c.a = 36$$

$$a.c.b^2 = 24.6$$

$$36$$

$$b^2 = 4 \Rightarrow b = 2, \quad c = 3 \text{ ve } a = 12 \text{ bulunur.}$$

Cevap: E

15.

+	a	b	c
a			
b		6-c	
c		5	2a-8

i) $b + b = 6 - c \Rightarrow 2b + c = 6$

ii) $b + c = 5$

iii) $c + c = 2a - 8 \Rightarrow 2c = 2a - 8$

$2(a - c) = 8$

$a - c = 4$

i ve ii'den

$2b + c = 6$

$-/ \quad b + c = 5$

$2b + c = 6$

$-b - c = -5$

$b = 1 \text{ ise } c = 4$

O halde $a - c = 4$ ise $a - 4 = 4$ $a = 8$ bulunur.

Cevap: D

16.

X	a	b	c
a		4c	
b			9a
c			

$a.b = 4c$

$x \quad b.c = 9a$

$\cancel{a}.b^2.\cancel{c} = 4\cancel{c}.9\cancel{a}$

$b^2 = 36$

$b = 6$

Cevap: B

17. Tablodan $x + y = 72$

$y + z = 4z \Rightarrow y = 3z$

$x + z = 2y \Rightarrow x + z = 6z$

$x = 5z$ olur.

$x + y = 72 \Rightarrow 5z + 3z = 72$

$8z = 72$

$z = 9$ ve $x = 45, y = 27$

Cevap: D

TASARI EĞİTİM YAYINLARI

18.

a^b			b^a
	a	b	
a + b			a.b

x			y
	2	3	
w			z

$a = 2 \quad b = 3$

$x = a^b = 2^3 = 8$

$y = b^a = 3^2 = 9$

$w = a + b = 2 + 3 = 5$

$z = a.b = 2.3 = 6$

$\frac{x+y}{w-z} = \frac{8+9}{5-6} = \frac{17}{-1} = -17$

Cevap: B

19.

+	a	b	c
a			10
b	2c-3		
c		3a-1	

a, b, c > 0

a.c + b = ?

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

$$a + c = 10 \dots\dots(i)$$

$$\begin{array}{r} -1/ \\ c + b = 3a - 1 \end{array}$$

$$\hline b + a = 2c - 3$$

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

$$\hline a - c = 2c - 3a - 2$$

$$4a - 3c = -2 \dots\dots(ii)$$

(i) ve (ii) den

$$3/ \quad a + c = 10$$

$$4a - 3c = -2$$

$$\hline 3a + 3c = 30$$

$$+ \quad 4a - 3c = -2$$

$$\hline 7a = 28 \Rightarrow a = 4$$

$$4 + c = 10 \Rightarrow c = 6$$

$$b + 4 = 2.6 - 3$$

$$b = 12 - 3 - 4$$

$$b = 5$$

$$a.c + b = 4.6 + 5$$

$$= 24 + 5$$

$$= 29 \text{ bulunur.}$$

Cevap: A

20.

6	4	2	8	40	$\Rightarrow (6 \times 4) + (2 \times 8) = 24 + 16 = 40$
1	5	7	4	33	$\Rightarrow (1 \times 5) + (7 \times 4) = 5 + 28 = 33$
4	3	6	2	A	$\Rightarrow (4 \times 3) + (6 \times 2) = 12 + 12 = \boxed{24 = A}$
1	7	6	5	37	$\Rightarrow (1 \times 7) + (6 \times 5) = 7 + 30 = 37$

Cevap: C