

1. $2\Delta + \square + \nabla = 3$
 $\Delta - \square - \nabla = 0$
 $\Delta + 2\square + \nabla = 0$
 $\Delta = a, \square = b, \nabla = c$

$$\begin{array}{r} -/ \quad 2a + b + c = 3 \\ \quad \quad a - b - c = 0 \\ \hline \quad \quad a + 2b + c = 0 \\ \quad -2a - b - c = -3 \\ \quad \quad a - b - c = 0 \\ + \quad a + 2b + c = 0 \\ \hline \quad \quad \quad -c = -3 \\ \quad \quad \quad c = 3 \end{array}$$

* $2a + b + 3 = 3$
 $a - b - 3 = 0$
 $\hline 2a + b = 0$
+ $a - b = 3$
 $\hline 3a = 3$
 $a = 1$

* $2.1 + b + 3 = 3$
 $b = -2$

a.b.c = 1.(-2).3 = -6 bulunur.

2. $\begin{array}{cccccc} 8 & 2 & 7 & 4 & 1 & = 1674 \\ \vee & & \downarrow & \vee & & \\ \text{çarp} & & & \text{çarp} & & \\ & & \text{aynen} & & & \\ & & \text{al} & & & \end{array}$

$\begin{array}{cccccc} 4 & 5 & 0 & 9 & 1 \\ \vee & & \downarrow & \vee & & \\ 20 & 0 & 9 & & & \text{bulunur.} \end{array}$

3. $f(1) = 2, f(2) = 6, f(3) = 12, f(4) = 20$
 $f(n) = n^2 + n$
 $f(1) = 1^2 + 1 = 2$
 $f(2) = 2^2 + 2 = 6$
 $f(3) = 3^2 + 3 = 12$
 $f(4) = 4^2 + 4 = 20$

Cevap: D

4. $\begin{array}{r} A \ B \ 7 \\ - \ C \ C \ C \\ \hline C \ A \ 6 \end{array}$

C = 1 A = 2 ve B = 3 olur.

$$\begin{array}{r} 2 \ 3 \ 7 \\ - \ 1 \ 1 \ 1 \\ \hline 1 \ 2 \ 6 \end{array}$$

A + B = 2 + 3 = 5 bulunur.

Cevap: A

Cevap: C

5. $\begin{array}{r} 895 \rightarrow 11 \\ \downarrow \\ (8 + 9 + 5) : 2 = 11 \end{array}, \quad \begin{array}{r} 592 \rightarrow 8 \\ \downarrow \\ (5 + 9 + 2) : 2 = 8 \end{array}$

O halde
 $(723) \rightarrow ?$

\downarrow
 $(7 + 2 + 3) : 2 = 6$ bulunur.

Cevap: E

6. $56 \times 19 \Rightarrow 73$
farklarını al çıkan sonucun tersini yaz.
 $(56 - 19) = 37$ tersi 73
 $53 \times 31 = (53 - 31) = 22$
 $92 \times 71 = (92 - 71) = 21$ tersi 12

O halde
 $67 \times 23 = (67 - 23) = 44$ tersi yine kendisi

Cevap: D

Cevap: C

7. $6 * 3 * 5 = 18 \ 30 \ 33$

I. $6 \times 3 = 18$

II. $6 \times 5 = 30$

III. $(6 \times 3) + 3 \times 5 = 33$

* $5 * 4 * 3 = 20 \ 15 \ 32$

$5 \times 4 = 20$

$5 \times 3 = 15$

$(5 \times 4) + (4 \times 3) = 20 + 12 = 32$

O halde

$8 * 2 * 9 = ?$

$8 \times 2 = 18$

$8 \times 9 = 72$

$(8 \times 2) + (2 \times 9) = 16 + 18 = 34$

187234

Cevap: C

8. $6 \ 3 \ 7 \ 3 \rightarrow 2 \ 1 \ 1 \ 8$

$7.3 = 21$

$6.3 = 18$

$4 \ 7 \ 2 \ 8 \rightarrow 1 \ 6 \ 2 \ 8$

$2.8 = 16$

$4.7 = 28$

O halde

$3 \ 4 \ 9 \ 6 \rightarrow 5 \ 4 \ 1 \ 2$

$9.6 = 54$

$3.4 = 12$

Cevap: B

9. $7 \oplus 5 = (12) (35) (2)$

I. $7 + 5 = 12$

II. $7.5 = 35$

III. $7 - 5 = 2$

$8 \oplus 3 = (11) (24) (5)$

I. $8 + 3 = 11$

II. $8.3 = 24$

III. $8 - 3 = 5$

O halde

$9 \oplus 6 = ?$

I. $9 + 6 = 15$

II. $9.6 = 54$

III. $9 - 6 = 3$

15543 bulunur.

Cevap: A

10. $532 \ominus = (5 \times 3)(3 \times 2) = 156$

$826 \ominus = (8 \times 2)(2 \times 6) = 1612$

$178 \ominus = (1 \times 7)(7 \times 8) = 756$

$324 \ominus = (3 \times 2)(2 \times 4) = 68$

Cevap: C

11. $3 \Delta 2 \Rightarrow 7$

değerlerin çarpımının bir fazlası

$(3.2) + 1 = 7$

$5 \Delta 4 = 21$

$(5.4) + 1 = 21$

O halde

$10 \Delta 9 = ?$

$(10.9) + 1 = 91$ bulunur.

Cevap: B

12. $21 = (2.1)(2 + 1) = 23$

$56 = (5.6)(5 + 6) = 3011$

$72 = (7.2)(7 + 2) = 149$

$95 = (9.5)(9 + 5) = 4514$

Cevap: E

13. $o = a$, $\square = b$, $\Delta = c$

$$a - b = c$$

$$c + a = 11$$

$$c \cdot b = 15$$

$$\downarrow \downarrow$$

$$3 \ 5$$

O halde $a = 8$ bulunur.

$$\square - \Delta + o = b - c + a = 5 - 3 + 8 = 10$$

Cevap: D

14. $10 \begin{array}{|c} \leftarrow \\ \rightarrow \end{array} 5 \rightarrow 75$

$$\downarrow \quad \downarrow$$

$$10^2 - 5^2 = 100 - 25 = 75$$

$9 \begin{array}{|c} \leftarrow \\ \rightarrow \end{array} 1 \rightarrow 80$

$$\downarrow \quad \downarrow$$

$$9^2 - 1^2 = 81 - 1 = 80$$

O halde

$7 \begin{array}{|c} \leftarrow \\ \rightarrow \end{array} 2 \rightarrow ?$

$$\downarrow \quad \downarrow$$

$$7^2 - 2^2 = 49 - 4 = 45$$

15. $\Delta(1 \ 5 \ 1) \rightarrow 274$

$$\begin{array}{ccc} \downarrow +1 & \downarrow +2 & \downarrow +3 \\ 2 & 7 & 4 \end{array}$$

$\Delta(1 \ 0 \ 0) \rightarrow 223$

$$\begin{array}{ccc} \downarrow +1 & \downarrow +2 & \downarrow +3 \\ 2 & 2 & 2 \end{array}$$

O halde

$$\Delta(5 \ 2 \ 0) \rightarrow \underline{643}$$

$$\begin{array}{ccc} +1 & +2 & +3 \end{array}$$

16. $123 \rightarrow 4 \rightarrow 1^2 + 3 = 4$

$234 \rightarrow 12 \rightarrow 2^3 + 4 = 12$

$345 \rightarrow 86 \rightarrow 3^4 + 5 = 86$

$426 \rightarrow X \rightarrow 4^2 + 6 = 22$

$X = 22$

Cevap: D

17. $\sphericalangle = a$ $\nabla = b$ $\triangle = c$

$$a + b = 3a \Rightarrow b = 2a$$

$$2c + b = 2b + 2a$$

$$2c = b + 2a$$

$$2c + a = ?$$

$$= b + 2a + a = 2b + a$$

Cevap: E

18. I. $148 \rightarrow 1 + 4.8 = 33$

II. $252 \rightarrow 2 + 5.2 = 12$

III. $324 \rightarrow 3 + 2.4 = 11$

IV. $413 \rightarrow 4 + 1.3 = 7$

V. $452 \rightarrow 4 + 5.2 = 14$

VI. $533 \rightarrow 5 + 3.3 = 14$

Cevap: D

Cevap: A

19. $157 \rightarrow 612$

$$\begin{array}{cc} \swarrow & \searrow \\ (1+5) & (5+7) \end{array} \text{ şeklinde}$$

$452 \rightarrow X = 97$

$$\begin{array}{cc} \swarrow & \searrow \\ (4+5) & (5+2) \end{array}$$

Cevap: B

Cevap: C

20. $2x - y + 4z = 33$

$$\begin{array}{r} -2/ \\ 3z + 2x + y = 24 \end{array}$$

$$4y + 3z + 3x = 28$$

$$\hline 2x - y + 4z = 33$$

$$-6z - 4x - 2y = -48$$

$$+ \quad 4y + 3z + 3x = 28$$

$$\hline x + y + z = 13$$

Cevap: E