

1.  $a \cdot b + ba = 121$   
 $10a + b + 10b + a = 121$   
 $11a + 11b = 121$   
 $11(a + b) = 121$   
 $a + b = 11 \quad (a > b)$   
 9 2  
 8 3  
 7 4 → 4 farklı sayı yazılabilir.  
 6 5

Cevap: E

2.  $\frac{mn + nm}{mm + nn} = \frac{10m + n + 10n + m}{10m + m + 10n + n} = \frac{11m + 11n}{11m + 11n} = 1$

Cevap: E

3.  $m4 - 4m = 52$   
 $10m + 4 - 4m = 52$   
 $6m = 48 \Rightarrow m = 8$

Cevap: B

4.  $mn + nm = 176$   
 $10m + n + 10n + m = 176$   
 $11m + 11n = 176$   
 $m + n = 16$   
 9 7 →  $m \cdot n = 9 \cdot 7 = 63$  en çok

Cevap: D

5. •  $a = 7 - b \Rightarrow a + b = 7$   
 •  $ab + ba = 10a + b + 10b + a = 11a + 11b$   
 $= 11(a + b)$   
 $= 11 \cdot 7$   
 $= 77$

Cevap: A

6.  $ab - mn$   
 $10a + b - 10m - n$   
 $10(a - m) + b - n \quad (n - b = 5 \Rightarrow b - n = -5)$   
 $\underbrace{2} \quad \underbrace{-5}$   
 $20 - 5 = 15$

Cevap: A

7.  $xy = 13x - 5y$   
 $10x + y = 13x - 5y$   
 $y + 5y = 13x - 10x$   
 $6y = 3x$   
 $2y = x$   
 1 2  
 2 4 → 4 farklı sayı yazılabilir.  
 3 6  
 4 8

Cevap: D

8.  $x = y + 4$        $z = 2y - 1$   
 5 1      1 1  
 6 2      3 2  
 7 3      5 3 → 3 farklı sayı yazılabilir.  
 8 4      7 4  
 9 5      9 5

Cevap: E

9.  $abc - cba = xy3$   
 $10a + 10b + c - 100c - 10b - a = xy3$   
 $99a - 99c = xy3$   
 $99(a - c) = xy3$   
 $\downarrow$   
 $7$   
 $693 = xy3 \Rightarrow x = 6$   
 $\quad \quad \quad + \quad y = 9$   
 $\quad \quad \quad \hline$   
 $\quad \quad \quad x + y = 15$

Cevap: A

10.  $xy - x = 41$   
 $+ \quad yx - y = 49$   
 $\hline$   
 $xy - x + yx - y = 90$   
 $10x + y - x + 10y + x - y = 90$   
 $10(x + y) = 90$   
 $x + y = 9$

Cevap: E

11.  $ab3 - ab = 426$   
 $100a + 10b + 3 - 10a - b = 426$   
 $90a + 9b = 423$   
 $\downarrow \quad \downarrow$   
 $4 \quad 7 \Rightarrow a.b = 4.7 = 28$  olur.

Cevap: B

12.  $aa.bb = 1452$   
 $11a.11b = 1452$   
 $121.a.b = 1452$   
 $a.b = 12$   
 $2 \quad 6$   
 $3 \quad 4$   
 $4 \quad 3 \rightarrow 4$  farklı sayı yazılabilir.  
 $6 \quad 2$

Cevap: C

13.  $(ab).x = (10a + b).x$   
 $= 10a.x + b.x = 770 + 44$   
 $\quad \quad \quad \underbrace{\quad}_{77} \quad \underbrace{\quad}_{44}$   
 $\quad \quad \quad \quad \quad \quad \quad = 814$

Cevap: B

14.  $ab6 = 3.(1ab)$   
 $100a + 10b + 6 = 3(100 + 10a + b)$   
 $100a + 10b + 6 = 300 + 30a + 3b$   
 $70a + 7b = 294$   
 $\downarrow \quad \downarrow$   
 $4 \quad 2 \Rightarrow a.b = 4.2 = 8$  olur.

Cevap: E

15.  $abc - bca = 7(ab + ba)$   
 $100a + 10b + c - 100b - 10c - a = 7(11a + 11b)$   
 $99a - 90b - 9c = 77a + 77b$   
 $22a = 167b + 9c$   
 $8 \quad 1 \quad 1$

Cevap: B

16.  $ab = 3(a + b)$   
 $+ \quad \quad \quad ba = x(a + b)$   
 $\hline$   
 $11(a + b) = (3 + x)(a + b)$   
 $3 + x = 11 \Rightarrow x = 8$

Cevap: B

$$\begin{aligned}
1. \quad M - N &= 7xy3 - 3y \times 7 \\
&= 7000 + 100x + 10y + 3 - 3000 - 100y - 10x - 7 \\
&= 3996 + 90x - 90y \\
&= 3996 + 90(x - y) \\
&\quad \quad \quad 3 \\
&= 3996 + 270 \\
&= 4266
\end{aligned}$$

Cevap: A

$$\begin{aligned}
2. \quad (abc).x &= (100a + 10b + c).x \\
&= 100a.x + 10bx + cx \\
&= 10. \underbrace{10ax}_{17,2} + \underbrace{10b.x}_{3,2} + \underbrace{cx}_{5} \\
&= 172 + 32 + 5 \\
&= 209
\end{aligned}$$

Cevap: B

$$\begin{aligned}
3. \quad abc + 400 - 30 - 2 &= 2(abc) + 123 \\
abc + 368 &= 2(abc) + 123 \\
245 &= 2(abc) - abc \\
245 &= abc \\
\Rightarrow a + b + c &= 2 + 4 + 5 = 11
\end{aligned}$$

Cevap: A

$$\begin{aligned}
4. \quad abc4 &= 3(abc) + 1544 \\
10(abc) + 4 &= 3(abc) + 1544 \\
10(abc) - 3(abc) &= 1544 - 4 \\
7(abc) &= 1540 \\
abc &= 220 \\
\Rightarrow a + b + c &= 2 + 2 + 0 = 4
\end{aligned}$$

Cevap: B

$$\begin{aligned}
5. \quad xyz &= 316 - (x + y + z) \\
100x + 10y + z &= 316 - x - y - z \\
101x + 11y + 2z &= 316 \\
\downarrow \quad \downarrow \quad \downarrow \\
3 \quad 1 \quad 1 &\rightarrow x + y + z = 3 + 1 + 1 = 5
\end{aligned}$$

Cevap: C

$$\begin{aligned}
6. \quad 4x \ 21 &< 4730 \\
\downarrow \\
7, 6, 5, \cancel{4}, 3, \cancel{2}, \cancel{1}, 0 &\rightarrow 5 \text{ farklı değeri vardır.}
\end{aligned}$$

Cevap: D

$$\begin{aligned}
7. \quad \frac{ab5 + ba3 - 8}{ab + ba} \\
&= \frac{100a + 10b + 5 + 100b + 10a + 3 - 8}{10a + b + 10b + a} \\
&= \frac{110a + 110b}{11a + 11b} = \frac{110(a+b)}{11(a+b)} = 10
\end{aligned}$$

Cevap: C

$$\begin{aligned}
8. \quad \square(abc) &= |abc - cba| \\
&= |99 - (a - c)| \\
&= 99|a - c| \\
&\quad \quad \quad \searrow \text{simetrik fark a ve c ile ilgili}
\end{aligned}$$

$$\square(abc) = \square(abc + 50) \text{ olabilmesi için}$$

$$\begin{array}{r}
abc \\
+ \quad \square \\
\hline
abc \\
50 \\
\hline
\end{array}$$

$\rightarrow$  b ile 5'in toplamından elde gelmemiş, elde gelirse a 1 artar ve a - c değişir.

O halde b = 5 olamaz.

Cevap: A

9.  $x = y^z$

- $x = 1$  ve  $y = 1$  için  $z = 0, 1, \dots, 9$  olabilir.

$$1 = 1^0, 1 = 1^1, 1 = 1^2, \dots, 1 = 1^9$$

10 farklı sayı buradan gelir.

- $x = 1$  ve  $z = 0$  için  $y = 1, 2, \dots, 9$  olabilir.

$$1 = 2^0, 1 = 3^0, \dots, 1 = 9^0$$

8 farklı sayı buradan gelir.

- $2 = 2^1, 3 = 3^1, 4 = 4^1, \dots, 9 = 9^1$

8 farklı sayı buradan gelir.

- $4 = 2^2, 9 = 3^2, 8 = 2^3$

3 farklı sayı buradan gelir.

O halde  $10 + 8 + 8 + 3 = 29$  farklı sayı yazılabilir.

Cevap: B

10.  $abc + 540 = bac$

$$540 = bac - abc$$

$$540 = 100b + 10a + c - 100a - 10b - c$$

$$540 = 90b - 90a$$

$$6 = b - a$$

$$9 \quad 3 \quad \rightarrow \quad 8 \text{ farklı } c$$

$$8 \quad 2 \quad \rightarrow \quad 8 \text{ farklı } c$$

$$7 \quad 1 \quad \rightarrow \quad + \quad 8 \text{ farklı } c$$

24 sayı yazılır.

Cevap: C

11. 4 eşit sayıda aynı değişiklik yapıp toplamları 2376 artıyorsa, bir tanesi  $2376 : 4 = 594$  artar.

$$\Rightarrow abc + 594 = cba$$

$$594 = cba - abc$$

$$594 = 100c + 10b + a - 100a - 10b - c$$

$$594 = 99c - 99a$$

$$594 = 99(c - a)$$

$$6 = c - a$$

$$7 \quad 1 \quad \rightarrow \text{en az}$$

b de en az 0 seçilebilir.

O halde toplam  $a + b + c = 1 + 0 + 7 = 8$  olur.

Cevap: B

12.  $\Delta(ABCD) = A + B.C + D = 3$

$$1 \quad 0 \quad 3 \quad 2$$

$$4$$

$$5$$

$$\vdots$$

$$9$$

↳ 7 farklı sayı

$$7.2.2 = 28 \text{ farklı sayı}$$

↓

B ile C

A ile D yer değiştirebilir.

yer değiştirebilir.

Cevap: B

13.  $aabb \mid aa$

$$109$$

$$aabb = 109(aa)$$

$$aa00 + bb = 109(aa)$$

$$100(aa) + bb = 109(aa)$$

$$bb = 109(aa) - 100(aa)$$

$$bb = 9(aa)$$

$$11b = 9.11a$$

$$b = 9.a$$

Cevap: E

14.  $3 \overline{a} 4 \rightarrow 4 + a = 13$

$$\begin{array}{r} 3 \overline{a} 4 \\ + \quad 2 \overline{a} \\ \hline 4 \overline{2} 3 \end{array}$$

$$a = 9$$

Cevap: A

$$1. \quad \frac{ab-a}{ba+a} = \frac{1}{2}$$

$$\frac{10a+b-a}{10b+a+a} = \frac{1}{2}$$

$$\frac{9a+b}{10b+2a} \times \frac{1}{2}$$

$$18a + 2b = 10b + 2a$$

$$16a = 8b$$

$$b = 2a$$

$$\downarrow \quad \downarrow$$

$$8 \quad 4 \Rightarrow ab = 48 \text{ en çok}$$

Cevap: D

$$2. \quad \bullet \quad a - b > c \rightarrow a > b + c$$

$$\bullet \quad a > b + c$$

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

$$9 > 8 + 0 \rightarrow \quad \frac{980}{880} \quad \text{en fazla}$$

$$1 > 0 + 0 \rightarrow \quad \frac{100}{880} \quad \text{en az}$$

Cevap: E

$$3. \quad 3a = 2b$$

$$\downarrow \quad \downarrow$$

$$2 \quad 3 \quad \rightarrow \quad c < 3 \Rightarrow c = 0, 1, 2$$

$$4 \quad 6 \quad \rightarrow \quad c < 6 \Rightarrow c = 0, 1, 2, 3, 4, 5$$

$$6 \quad 9 \quad \rightarrow \quad c < 9 \Rightarrow c = 0, 1, 2, 3, 4, 5, 6, 7, 8$$

$$\downarrow$$

18 farklı durum

Cevap: D

$$4. \quad A \cdot B \cdot C \cdot D = 72$$

$$1 \cdot 2 \cdot 4 \cdot 9 \rightarrow 1 + 2 + 4 + 9 = 16$$

Cevap: C

$$5. \quad \frac{xy}{yx} \times \frac{3}{8}$$

$$8(xy) = 3(yx)$$

$$8(10x + y) = 3(10y + x)$$

$$80x + 8y = 30y + 3x$$

$$77x = 22y \rightarrow 7x = 2y$$

$$\Rightarrow x + y = 2 + 7 = 9$$

Cevap: C

$$6. \quad \frac{xy}{y} - \frac{yx}{x} = 15$$

$$x = 8 \text{ ve } y = 4 \text{ için}$$

$$\frac{84}{4} - \frac{48}{8} = 21 - 6 = 15$$

$$\Rightarrow x + y = 8 + 4 = 12 \text{ olabilir.}$$

Cevap: A

$$7. \quad \begin{array}{l} xy = a.(x+y) \\ + \quad yx = b.(x+y) \\ \hline 11(x+y) = (a+b)(x+y) \end{array}$$

$$a + b = 11$$

Cevap: A

8.  $2 \boxed{mn} = 3 \boxed{nm}$   
 $2(m+n) = 3(n-m)$   
 $2m+2n = 3n-3m$   
 $2m+3m = 3n-2n$   
 $5m = n$   
 $\Rightarrow \frac{m}{n} = \frac{m}{5m} = \frac{1}{5}$

Cevap: A

9.  $a7b \cdot x = (a3b + 40)x$   
 $= a3b \cdot x + 40 \cdot x$   
 Sonuç  $40 \cdot x$  artar.

Cevap: D

10.  $xyz = 9 \cdot yz - 120$   
 $100x + yz = 9 \cdot yz - 120$   
 $100x = 8 \cdot yz - 120$   
 $\begin{array}{r} 2 \quad 10 \\ 4 \quad 65 \\ 6 \quad 90 \end{array} \rightarrow \text{En büyük } 690$   
 ve rakamları toplamı  $6 + 9 + 0 = 15$  olur.

Cevap: C

11.  $\begin{array}{r} m \ n \ 0 \ n = 9 \\ + \ m \ 0 \ n \ m = 3 \\ \hline 7 \ 0 \ 0 \ 2 \end{array} \Rightarrow \begin{array}{r} 3 \ 9 \ 0 \ 9 \\ + \ 3 \ 0 \ 9 \ 3 \\ \hline 7 \ 0 \ 0 \ 2 \end{array}$   
 $\Rightarrow n - m = 9 - 3 = 6$  olur.

Cevap: C

12.  $(mn)^2 - (nm)^2 = 792$   
 $(mn - nm)(mn + nm) = 792$   
 $9(m-n) \cdot 11(m+n) = 792$   
 $99(m-n)(m+n) = 792$   
 $(m-n)(m+n) = 8$   
 $\begin{array}{r} 2 \quad 4 \\ m-n = 2 \quad \rightarrow 3+n=4 \\ + \ m+n = 4 \quad \quad \quad n=1 \\ \hline 2m = 6 \\ m = 3 \end{array}$   
 $\Rightarrow m \cdot n = 3 \cdot 1 = 3$  olur.

Cevap: B

13.  $a + b = c$   
 $1 + 2 = 3 \rightarrow 123, 213$   
 $1 + 3 = 4 \rightarrow 134, 314$   
 $3 + 4 = 7 \rightarrow 347, 437$   
 $\downarrow$   
 6 farklı sayı yazılabilir.

Cevap: B

14.  $xy = 11x + \frac{y}{3}$   
 $10x + y = 11x + \frac{y}{3}$   
 $y - \frac{y}{3} = 11x - 10x \Rightarrow \frac{2y}{3} = x$   
 $2y = 3x \Rightarrow y = 3k$   
 $x = 2k$   
 $xy \Rightarrow 23 + 46 + 69 = 138$  olur.

Cevap: A

1. Caner = ab

Gökhan = ba

ab = ba + 63

ab - ba = 63

10a + b - 10b - a = 63

9a - 9b = 63 ⇒ a - b = 7

8 1

9 2 → En fazla 29 olur.

Cevap: C

2. a = b . c

8 4 . 2 → 842 en çok

6 2 . 3 →  $\begin{array}{r} 623 \\ + \\ \hline 1465 \end{array}$  en az

Cevap: A

3. a.c = 4b - d

a.c + d = 4b

5.1 + 3 = 4.2 ⇒ a + b + c + d

5 + 2 + 3 + 1 = 11 olur.

Cevap: D

4.  $\overbrace{A235} + \overbrace{B348} = 10990$

235A = 8B34 = 10990

$\begin{array}{r} 235A \\ + 8B34 \\ \hline 10990 \end{array}$  → A + 4 = 10  
A = 6

$\begin{array}{r} 10990 \\ \hline 3 + B = 9 \\ B = 6 \end{array}$

⇒ A + B = 6 + 6 = 12 olur.

Cevap: C

5. A = 4ab

B = ab<sup>2</sup>

C = a<sup>2</sup>b

ab<sup>2</sup> - a<sup>2</sup>b + 4ab = 462

$\cancel{100a} + ab + 2 - \cancel{100a} - \cancel{10b} + 400 + 10a + b = 462$

10a + 10b + 392 = 462

10a + 10b = 70

a + b = 7

Cevap: D

6. (xx)<sup>2</sup> - (yy)<sup>2</sup> = m(x<sup>2</sup> - y<sup>2</sup>)

(11x)<sup>2</sup> - (11y)<sup>2</sup> = m.(x<sup>2</sup> - y<sup>2</sup>)

121x<sup>2</sup> - 121y<sup>2</sup> = m.(x<sup>2</sup> - y<sup>2</sup>)

121(x<sup>2</sup> - y<sup>2</sup>) = m.(x<sup>2</sup> - y<sup>2</sup>)

m = 121

Cevap: A

7. xy - Harcama = yx

Harcama = xy - yx

= 10x + y - 10y - x

= 9(x - y)

9.(9 - 0) = 81 olamaz.

↳ y ≠ 0 olmalı.

Cevap: A

8. abc = 27(a + b + c)

bac = 36(a + b + c)

+ cab = x.(a + b + c)

$\frac{111(a + b + c) = (x + 27 + 36)(a + b + c)}{111 = x + 63}$

111 = x + 63

x = 111 - 63

x = 48

Cevap: C

9. Cem = y. (xy)

Hakan = x.(yx)

$$x.(yx) = y.(xy) - 48$$

$$y.(xy) - x.(yx) = 48$$

$$y(10x + y) - x(10y + x) = 48$$

$$10xy + y^2 - 10xy - x^2 = 48$$

$$y^2 - x^2 = 48$$

$$8^2 - 4^2 = 48$$

x ile y en fazla

4 ile 8 seçilebilir.

$$\Rightarrow xy + yx = 48 + 84 = 132 \text{ olur.}$$

Cevap: C

10. 394 ★ abc = 7

abc'den herhangi ikisi 3 ve 4 olmalı.

$$34c \Rightarrow c \in \{0, 1, 2, 5, 6, 7, 8\}$$

$$43c \Rightarrow c \in \{0, 1, 2, 5, 6, 7, 8\}$$

$$3b4 \Rightarrow b \in \{0, 1, 2, 5, 6, 7, 8\}$$

$$4b3 \Rightarrow b \in \{0, 1, 2, 5, 6, 7, 8\}$$

$$a34 \Rightarrow a \in \{1, 2, 5, 6, 7, 8\}$$

$$a43 \Rightarrow a \in \{1, 2, 5, 6, 7, 8\}$$

40 farklı sayı yazılabilir.

Cevap: B

11. Onlar basamağını 70 - 20 = 50 fazla görüyor.

$$(abc).(xy) + 1600 = (abc + 50)(xy)$$

$$abc.xy + 1600 = abc.xy + 50.xy$$

$$1600 = 50.xy$$

$$32 = xy$$

$$\Rightarrow x + y = 3 + 2 = 5 \text{ olur.}$$

Cevap: A

12.  $1 < a < b < 7$

↓ ↓

$$2 \ 3, 4, 5, 6 \rightarrow 4$$

$$3 \ 4, 5, 6 \rightarrow 3$$

$$4 \ 5, 6 \rightarrow 2$$

$$5 \ 6 \rightarrow + 1$$

10 farklı sayı yazılabilir.

Cevap: E



1.

$$\begin{array}{r}
 A \\
 B \\
 C \\
 + \\
 1 \quad 9 \quad 3 \quad 6 \\
 \hline
 \end{array}
 \begin{array}{l}
 \begin{array}{l}
 A \\
 B \\
 A
 \end{array} \rightarrow A = 6 \\
 \begin{array}{l}
 A \\
 B \\
 0 \\
 0
 \end{array} \\
 \begin{array}{l}
 A \\
 0 \\
 0
 \end{array}
 \end{array}$$

$$\begin{aligned}
 A + B &= 13 & A + B + C + 1 &= 19 \\
 6 + B &= 13 & \Rightarrow 6 + 7 + C + 1 &= 19 \\
 B &= 7 & C &= 5
 \end{aligned}$$

Cevap: D

2.

$$\begin{array}{r}
 x \quad y \\
 + \quad m \quad n \\
 \hline
 2
 \end{array}
 \Rightarrow
 \begin{array}{r}
 14+1 \\
 x \quad y \\
 + \quad m \quad n \\
 \hline
 15 \quad 2
 \end{array}$$

Cevap: C

3.

$$\begin{array}{r}
 A \\
 B \\
 + \\
 5 \quad y \quad z \\
 \hline
 \end{array}
 \begin{array}{l}
 \begin{array}{l}
 A \\
 A \\
 C
 \end{array} \rightarrow A + B + C = 1z = 17 \\
 \begin{array}{l}
 A \\
 B \\
 A
 \end{array} \\
 \begin{array}{l}
 C \\
 B \\
 A
 \end{array}
 \end{array}$$

$$\begin{aligned}
 A + B + C &= 1z = 17 & \Rightarrow z &= 7 \\
 1 + A + B &= y \\
 1 + 5 + 3 &= 9 \\
 \Rightarrow y + z &= 9 + 7 = 16
 \end{aligned}$$

Cevap: C

4.

$$\begin{array}{r}
 a \quad 2 \quad b \\
 + \quad c \quad c \quad 5 \\
 \hline
 6 \quad b \quad 1
 \end{array}$$

$$\begin{aligned}
 a + c &= 6 & b + 5 &= 11 \\
 a + 3 &= 6 & b &= 6 \\
 a &= 3 & 2 + c + 1 &= 6 \\
 & & c &= 3
 \end{aligned}$$

$$\Rightarrow a + b + c = 3 + 6 + 3 = 12 \text{ olur.}$$

Cevap: C

5.

$$\begin{array}{r}
 A \\
 B \\
 + \\
 6 \quad 5 \quad A \\
 \hline
 \end{array}
 \begin{array}{l}
 \begin{array}{l}
 A \\
 B \\
 C
 \end{array} \rightarrow C - 1 = A = 7 \\
 \begin{array}{l}
 C \\
 1 \\
 A
 \end{array} \\
 \begin{array}{l}
 1 \\
 1 \\
 7
 \end{array}
 \end{array}$$

$$\begin{aligned}
 C - 1 &= A = 7 & C &= 8 \\
 10 + B - C &= 5 \\
 10 + B - 8 &= 5 \\
 B + 2 &= 5 \\
 B &= 3
 \end{aligned}$$

$$AB + C = 73 + 8 = 81$$

Cevap: A

6.

$$x + 2x + 3x + \dots + nx = x(1 + 2 + \dots + n) = 9k$$

$$x \cdot \left( \frac{n(n+1)}{2} \right) = 9k \quad n = 8 \text{ olmalı en az}$$

9k olması yeterli

Cevap: C

$$7. \begin{array}{r} AB \\ + \quad CD \\ \hline KLM \end{array} \Rightarrow KLM = AB0 + CD$$

$$\begin{array}{r} AB \\ + \quad CD \\ \hline xy \end{array} \Rightarrow xy = AB + CD$$

$$\begin{aligned} KLM - xy &= AB0 + CD - AB - CD \\ &= 10(AB) - AB \\ &= 9(AB) \rightarrow 9\text{'un katı olmalıdır.} \end{aligned}$$

Cevap: A

$$8. \begin{array}{r} \dots abc \text{ olsun} \\ x \quad 4 \cdot \\ \hline 12 \dots \\ + \quad 972 \rightarrow 972 = 4 \cdot abc \\ \hline \dots \dots 243 = abc \end{array}$$

$$\Rightarrow \begin{array}{r} 243 \\ \times 4x \\ \hline 1215 \end{array} \rightarrow 243 \cdot x = 1215$$

5

$$\Rightarrow 243 + 45 = 288 \text{ olur.}$$

Cevap: A

$$9. \begin{array}{r} 1x \cdot y \rightarrow 2 \cdot y = a = 8 \\ x \quad 2x \\ \hline y \quad 0 \quad 2 \\ + \dots a \\ \hline x \quad 0 \quad 8 \quad 2 \end{array}$$

$$\rightarrow 0 + a = 8 \Rightarrow a = 8$$

$$\Rightarrow \begin{array}{r} 1x \quad 4 \\ \times \quad 2x \\ \hline 40 \quad 2 \end{array} \rightarrow \begin{aligned} 4 \cdot x &= 12 \\ x &= 3 \end{aligned}$$

$$\begin{array}{r} + \dots 8 \\ \hline x \quad 0 \quad 8 \quad 2 \end{array}$$

$$\Rightarrow x \cdot y = 3 \cdot 4 = 12$$

Cevap: D

$$10. \begin{array}{r} AB00 \rightarrow D = 1 \\ BC0 \\ CD \\ + \quad 5261 \\ \hline \end{array}$$

$$\begin{aligned} 2C &= 6 \\ C &= 3 \\ 2B &= 12 \\ B &= 6 \\ A + 1 &= 5 \Rightarrow A = 4 \end{aligned}$$

$$AB + BC + CD = 46 + 63 + 31 = 140$$

Cevap: B

$$11. \bullet \quad \begin{aligned} 1xyz + 93 &= xyz4 \\ 1000 + xyz + 93 &= 10(xyz) + 4 \\ 1089 &= 9(xyz) \\ 121 &= xyz \\ \bullet \quad xyz4 + 75 &= abcd \\ 1214 + 75 &= abcd \\ 1289 &= abcd \\ \bullet \quad abcd + 41 &= 1289 + 41 = 1330 \text{ m}^3 \end{aligned}$$

Cevap: B