

$$\begin{aligned}
 9. \quad & 4mb + 2ma - 2nb - na \\
 & = 2m(2b + a) - n(2b + a) \\
 & = (2b + a)(2m - n) \\
 & = 8.6 \\
 & = 48
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 10. \quad & \frac{2ab - 2cb + ad - dc}{ba - bc} \\
 & = \frac{2b(a - c) + d(a - c)}{b(a - c)} \\
 & = \frac{(a - c)(2b + d)}{b(a - c)} = \frac{2b + d}{b}
 \end{aligned}$$

Cevap: C

$$\begin{array}{r}
 11. \quad 3a + 4b = 24 \\
 + \quad 4a + 3b = 25 \\
 \hline
 7a + 7b = 49 \\
 7(a + b) = 49 \\
 a + b = 7 \\
 \Rightarrow a^2 - b^2 = (a + b)(a - b) = 7 \cdot 1 = 7 \text{ olur.}
 \end{array}
 \quad
 \begin{array}{r}
 -/ \quad 3a + 4b = 24 \\
 + \quad 4a + 3b = 25 \\
 \hline
 a - b = 1
 \end{array}$$

Cevap: D

$$\begin{aligned}
 12. \quad & A^2 - B^2 = (A - B)(A + B) \\
 & = (x + y + z - x + y + z) \cdot (x + y + z + x - y - z) \\
 & = 2(y + z) \cdot 2x \\
 & = 4x(y + z)
 \end{aligned}$$

Cevap: C

$$\begin{aligned}
 13. \quad & \frac{m^2 - n^2}{m^2 - mn} \cdot \frac{m^2 + mn}{m} \\
 & = \frac{(m - n)(m + n)}{m(m - n)} \cdot \frac{m}{m(m + n)} = \frac{1}{m}
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 14. \quad & \cdot \quad x^2 + z^2 - 2y^2 \\
 & = x^2 - y^2 + z^2 - y^2 \\
 & = (x - y)(x + y) + (z - y)(z + y) \\
 & = 8(x + y) - 8(z + y) \\
 & = 8x + 8y - 8z - 8y \\
 & = 8x - 8z \\
 & = 8(x - z) \\
 & = 8 \cdot 16 \\
 & = 128
 \end{aligned}
 \quad
 \begin{array}{r}
 \cdot \quad x - y = 8 \\
 + \quad y - z = 8 \\
 \hline
 x - z = 16
 \end{array}$$

Cevap: D

$$\begin{aligned}
 15. \quad & \frac{m^2 - n^2}{m^2 + 2n - 2m - n^2} \\
 & = \frac{(m - n)(m + n)}{m^2 - n^2 + 2n - 2m} \\
 & = \frac{(m - n)(m + n)}{(m - n)(m + n) - 2(m - n)} \\
 & = \frac{(m - n)(m + n)}{(m - n)(m + n - 2)} \quad (m + n = 5) \\
 & = \frac{5}{5 - 2} = \frac{5}{3}
 \end{aligned}$$

Cevap: E