

計算たしかめミックス (12)

名前

※ 解法は一例です。

■ (1) ~ (16) の計算をなさい。(17) ~ (20) は方程式を解きなさい。

$$\begin{aligned} (1) \quad (-8) + (-5) - (-15) &= -8 - 5 + 15 \\ &= 15 - 8 - 5 \\ &= 2 \end{aligned}$$

$$\begin{aligned} (3) \quad (2a + 1) + (3a - 6) &= 2a + 1 + 3a - 6 \\ &= (2 + 3)a + (1 - 6) \\ &= 5a - 5 \end{aligned}$$

$$(5) \quad 4a \times (-6) = -24a$$

$$\begin{aligned} (7) \quad (-11) \times (-9) &= +(11 \times 9) \\ &= 99 \end{aligned}$$

$$\begin{aligned} (9) \quad \frac{x+5}{2} \times 8 &= \frac{(x+5) \times 8}{2} \\ &= (x+5) \times 4 \\ &= 4x + 20 \end{aligned}$$

$$\begin{aligned} (11) \quad \frac{3}{4}(4x+8) + \frac{2}{3}(3x+6) &= 3x + 6 + 2x + 4 \\ &= 5x + 10 \end{aligned}$$

$$\begin{aligned} (13) \quad \frac{3}{2} \div \frac{4}{5} \times (-16) &= \frac{3}{2} \times \frac{5}{4} \times (-16) \\ &= -\left(\frac{3}{2} \times \frac{5}{4} \times 16\right) \\ &= -30 \end{aligned}$$

$$\begin{aligned} (15) \quad 10 - 18 \div (-9) - (-5) &= 10 - (-2) - (-5) \\ &= 10 + 2 + 5 \\ &= 17 \end{aligned}$$

$$\begin{aligned} (17) \quad -2x + 3 &= -9 \\ -2x &= -9 - 3 \\ -2x &= -12 \\ x &= 6 \end{aligned}$$

(19) $0.3x + 0.6 = 0.1x$ 両辺に 10 をかけて

$$(0.3x + 0.6) \times 10 = 0.1x \times 10$$

$$\begin{aligned} 3x + 6 &= x \\ 3x - x &= -6 \\ 2x &= -6 \\ x &= -3 \end{aligned}$$

$$(2) \quad (-7) - (-12) = (-7) + (+12) = 5$$

$$\begin{aligned} (4) \quad (3x + 7) - (5x - 9) &= 3x + 7 - 5x + 9 \\ &= (3 - 5)x + (7 + 9) \\ &= -2x + 16 \end{aligned}$$

$$(6) \quad -42x \div 6 = -7x$$

$$\begin{aligned} (8) \quad \frac{1}{3}(6a - 9) - \frac{1}{4}(8a - 24) &= 2a - 3 - 2a + 6 \\ &= 3 \end{aligned}$$

$$\begin{aligned} (10) \quad (42a - 6) \div 3 &= \frac{42a - 6}{3} \\ &= \frac{42a}{3} + \left(-\frac{6}{3}\right) \\ &= 14a - 2 \end{aligned}$$

$$\begin{aligned} (12) \quad -3^2 + (-3)^3 + (-3) &= -9 - 27 - 3 \\ &= -(9 + 27 + 3) \\ &= -39 \end{aligned}$$

$$\begin{aligned} (14) \quad 2 - (-8) \div \left(-\frac{4}{3}\right) &= 2 - (-8) \times \left(-\frac{3}{4}\right) \\ &= 2 - (+6) \\ &= 2 - 6 \\ &= -4 \end{aligned}$$

$$\begin{aligned} (16) \quad 5x + 3 - \{2x - (x + 3)\} &= 5x + 3 - (2x - x - 3) \\ &= 5x + 3 - 2x + x + 3 \\ &= 4x + 6 \end{aligned}$$

$$\begin{aligned} (18) \quad 2x - 7 &= 3x - 5 \\ 2x - 3x &= -5 + 7 \\ -x &= 2 \\ x &= -2 \end{aligned}$$

(20) $\frac{1}{4}x = \frac{2}{5}x + 3$ 両辺に 20 をかけて

$$\frac{1}{4}x \times 20 = \left(\frac{2}{5}x + 3\right) \times 20$$

$$\begin{aligned} 5x &= 8x + 60 \\ 5x - 8x &= 60 \\ -3x &= 60 \\ x &= -20 \end{aligned}$$