

計算たしかめミックス (8)

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。

$$\begin{aligned} (1) \quad (5x + 9) - (4x - 7) &= 5x + 9 - 4x + 7 \\ &= (5 - 4)x + (9 + 7) \\ &= x + 16 \end{aligned}$$

$$\begin{aligned} (2) \quad (3a + 5) + (-2a - 8) &= 3a + 5 - 2a - 8 \\ &= (3 - 2)a + (5 - 8) \\ &= a - 3 \end{aligned}$$

$$(3) \quad 54x \div (-6) = -9x$$

$$(4) \quad (-7) \times 5a = -35a$$

$$\begin{aligned} (5) \quad 2 + (-3)^2 + (-5) &= 2 + 9 - 5 \\ &= 6 \end{aligned}$$

$$\begin{aligned} (6) \quad (-36) \div (-4) &= +(36 \div 4) \\ &= 9 \end{aligned}$$

$$\begin{aligned} (7) \quad -5 + (-6) &= -(5 + 6) \\ &= -11 \end{aligned}$$

$$\begin{aligned} (8) \quad (-7) \times (-8) &= +(7 \times 8) \\ &= 56 \end{aligned}$$

$$\begin{aligned} (9) \quad \frac{x-7}{4} \times 8 &= \frac{(x-7) \times 8}{4} \\ &= (x-7) \times 2 \\ &= 2x - 14 \end{aligned}$$

$$\begin{aligned} (10) \quad (60x - 12) \div 6 &= \frac{60x - 12}{6} \\ &= \frac{60x}{6} + \left(-\frac{12}{6}\right) \\ &= 10x - 2 \end{aligned}$$

$$\begin{aligned} (11) \quad (+6) + (-8) - (-7) &= 6 - 8 + 7 \\ &= 6 + 7 - 8 \\ &= 5 \end{aligned}$$

$$\begin{aligned} (12) \quad 9 \div 4 \times (-20) &= 9 \times \frac{1}{4} \times (-20) \\ &= -\left(9 \times \frac{1}{4} \times 20\right) \\ &= -45 \end{aligned}$$

$$\begin{aligned} (13) \quad (-7) - (-10) &= (-7) + (+10) \\ &= 3 \end{aligned}$$

$$\begin{aligned} (14) \quad \frac{1}{4}(8x - 12) + \frac{1}{3}(3x + 6) &= 2x - 3 + x + 2 \\ &= 3x - 1 \end{aligned}$$

$$\begin{aligned} (15) \quad 6 - (-4) \div \left(-\frac{2}{5}\right) &= 6 - (-4) \times \left(-\frac{5}{2}\right) \\ &= 6 - 10 \\ &= -4 \end{aligned}$$

$$\begin{aligned} (16) \quad \frac{1}{5}(10a + 5) - \frac{1}{2}(8a - 4) &= 2a + 1 - 4a + 2 \\ &= -2a + 3 \end{aligned}$$

$$\begin{aligned} (17) \quad 3x + 13 &= 6x - 5 \\ 3x - 6x &= -5 - 13 \\ -3x &= -18 \\ x &= 6 \end{aligned}$$

$$\begin{aligned} (18) \quad 2x - 9 &= -x \\ 2x + x &= 9 \\ 3x &= 9 \\ x &= 3 \end{aligned}$$

(19) $0.3x - 0.8 = 4$ 両辺に 10 をかけて

(20) $\frac{5}{4}x + 1 = \frac{4}{3}x$ 両辺に 12 をかけて

$$(0.3x - 0.8) \times 10 = 4 \times 10$$

$$\left(\frac{5}{4}x + 1\right) \times 12 = \frac{4}{3}x \times 12$$

$$3x - 8 = 40$$

$$15x + 12 = 16x$$

$$3x = 48$$

$$-x = -12$$

$$x = 16$$

$$x = 12$$