

計算たしかめミックス (19)

名前

※ 解法は一例です。

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

$$\begin{aligned} (1) \quad 3(2x-5)-(2x-7) &= 6x-15-2x+7 \\ &= (6-2)x+(-15+7) \\ &= 4x-8 \end{aligned}$$

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

$$(3) \quad 28x \div (-4) = -7x$$

$$(4) \quad (-11) \times 13a = -143a$$

$$\begin{aligned} (5) \quad 8 - (-5) + (-3)^2 &= 8+5+9 \\ &= 22 \end{aligned}$$

$$\begin{aligned} (6) \quad -6 + (-19) &= -(6+19) \\ &= -25 \end{aligned}$$

$$\begin{aligned} (7) \quad \frac{x-1}{4} \times 8 &= \frac{(x-1) \times 8}{4} \\ &= (x-1) \times 2 \\ &= 2x-2 \end{aligned}$$

$$\begin{aligned} (8) \quad (24x-8) \div \frac{2}{3} &= (24x-8) \times \frac{3}{2} \\ &= 36x-12 \end{aligned}$$

$$\begin{aligned} (9) \quad (-3)^2 \times (-2)^3 &= 9 \times (-8) \\ &= -72 \end{aligned}$$

$$\begin{aligned} (10) \quad (-6) - (-11) &= -6+11 \\ &= 5 \end{aligned}$$

$$\begin{aligned} (11) \quad 2-4+6-8 &= 2+6-4-8 \\ &= 8-12 \\ &= -4 \end{aligned}$$

$$\begin{aligned} (12) \quad 3 \div 7 \times (-14) &= 3 \times \frac{1}{7} \times (-14) \\ &= -\left(3 \times \frac{1}{7} \times 14\right) \\ &= -6 \end{aligned}$$

$$\begin{aligned} (13) \quad -3^2 + 12 \div (-4) &= -9 + (-3) \\ &= -12 \end{aligned}$$

$$\begin{aligned} (14) \quad \frac{3}{4}(4x-12) + \frac{2}{3}(6x-3) &= 3x-9+4x-2 \\ &= 7x-11 \end{aligned}$$

$$\begin{aligned} (15) \quad (-5) \times 3^2 + (-2)^3 &= -5 \times 9 - 8 \\ &= -45 - 8 \\ &= -53 \end{aligned}$$

$$\begin{aligned} (16) \quad -24 \div \{-3 \times (5-7)\} &= -24 \div \{-3 \times (-2)\} \\ &= -24 \div 6 \\ &= -4 \end{aligned}$$

$$\begin{aligned} (17) \quad -2(x+7) &= -3(x+4) \\ -2x-14 &= -3x-12 \\ -2x+3x &= -12+14 \\ x &= 2 \end{aligned}$$

$$\begin{aligned} (18) \quad -7x-8 &= 13 \\ -7x &= 13+8 \\ -7x &= 21 \\ x &= -3 \end{aligned}$$

(19) $0.1x + 0.6 = 2$ 両辺に 10 をかけて

$$\begin{aligned} (0.1x+0.6) \times 10 &= 2 \times 10 \\ x+6 &= 20 \\ x &= 20-6 \\ x &= 14 \end{aligned}$$

(20) $\frac{5}{3}x + 2 = \frac{3}{2}x$ 両辺に 6 をかけて

$$\begin{aligned} \left(\frac{5}{3}x+2\right) \times 6 &= \frac{3}{2}x \times 6 \\ 10x+12 &= 9x \\ 10x-9x &= -12 \\ x &= -12 \end{aligned}$$