

計算たしかめミックス (3)

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。

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

$$\begin{aligned} (2) \quad (3a+7)-(-2a-6) &= 3a+7+2a+6 \\ &= (3+2)a+(7+6) \\ &= 5a+13 \end{aligned}$$

$$(3) \quad 25b \div (-5) = -5b$$

$$(4) \quad (-6) \times 3a = -18a$$

$$\begin{aligned} (5) \quad 2+2^2+2 &= 2+4+2 \\ &= 8 \end{aligned}$$

$$\begin{aligned} (6) \quad (-18) \div (-3) &= +(18 \div 3) \\ &= 6 \end{aligned}$$

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

$$\begin{aligned} (8) \quad (-4) \times (-5) &= +(4 \times 5) \\ &= 20 \end{aligned}$$

$$\begin{aligned} (9) \quad \frac{x-2}{3} \times 6 &= \frac{(x-2) \times 6}{3} \\ &= (x-2) \times 2 \\ &= 2x-4 \end{aligned}$$

$$\begin{aligned} (10) \quad (25x-15) \div 5 &= \frac{25x-15}{5} \\ &= \frac{25x}{5} + \left(-\frac{15}{5}\right) \\ &= 5x-3 \end{aligned}$$

$$\begin{aligned} (11) \quad (+3)+(-9)-(-6) &= 3-9+6 \\ &= 3+6-9 \\ &= 0 \end{aligned}$$

$$\begin{aligned} (12) \quad 8 \div 5 \times (-20) &= 8 \times \frac{1}{5} \times (-20) \\ &= -\left(8 \times \frac{1}{5} \times 20\right) \\ &= -32 \end{aligned}$$

$$\begin{aligned} (13) \quad (-4)-(-5) &= (-4)+(5) \\ &= 1 \end{aligned}$$

$$\begin{aligned} (14) \quad \frac{1}{2}(6x-4) + \frac{1}{3}(3x+9) &= 3x-2+x+3 \\ &= 4x+1 \end{aligned}$$

$$\begin{aligned} (15) \quad 3-(-8) \div \left(-\frac{2}{5}\right) &= 3-(-8) \times \left(-\frac{5}{2}\right) \\ &= 3-20 \\ &= -17 \end{aligned}$$

$$\begin{aligned} (16) \quad \frac{1}{4}(8a+12) - \frac{1}{2}(10a-6) &= 2a+3-5a+3 \\ &= -3a+6 \end{aligned}$$

$$\begin{aligned} (17) \quad 4x+11 &= 8x+7 \\ 4x-8x &= 7-11 \\ -4x &= -4 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} (18) \quad x-6 &= -x \\ x+x &= 6 \\ 2x &= 6 \\ x &= 3 \end{aligned}$$

$$(19) \quad 0.3x-0.4=2 \quad \text{両辺に } 10 \text{ をかけて}$$

$$(20) \quad \frac{5}{6}x+4=\frac{1}{2}x \quad \text{両辺に } 6 \text{ をかけて}$$

$$(0.3x-0.4) \times 10 = 2 \times 10$$

$$\left(\frac{5}{6}x+4\right) \times 6 = \frac{1}{2}x \times 6$$

$$3x-4=20$$

$$5x+24=3x$$

$$3x=24$$

$$2x=-24$$

$$x=8$$

$$x=-12$$