

計算たしかめミックス (14)

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。

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

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

$$(3) \quad 12x \div (-3) = -4x$$

$$(4) \quad (-5) \times 13a = -65a$$

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

$$\begin{aligned} (6) \quad (-48) \div (-4) &= +(48 \div 4) \\ &= 12 \end{aligned}$$

$$\begin{aligned} (7) \quad -7 + (-13) &= -(7+13) \\ &= -20 \end{aligned}$$

$$\begin{aligned} (8) \quad (-11) \times (-9) &= +(11 \times 9) \\ &= 99 \end{aligned}$$

$$\begin{aligned} (9) \quad \frac{x-1}{3} \times 9 &= \frac{(x-1) \times 9}{3} \\ &= (x-1) \times 3 \\ &= 3x-3 \end{aligned}$$

$$\begin{aligned} (10) \quad (30x-9) \div \frac{3}{2} &= (30x-9) \times \frac{2}{3} \\ &= 20x-6 \end{aligned}$$

$$\begin{aligned} (11) \quad 1-3+5-7 &= 1+5-3-7 \\ &= 6-10 \\ &= -4 \end{aligned}$$

$$\begin{aligned} (12) \quad 5 \div 4 \times (-16) &= 5 \times \frac{1}{4} \times (-16) \\ &= -\left(5 \times \frac{1}{4} \times 16\right) \\ &= -20 \end{aligned}$$

$$\begin{aligned} (13) \quad -4^2 + 9 \div (-3) &= -16 + (-3) \\ &= -19 \end{aligned}$$

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

$$\begin{aligned} (15) \quad (-5) - (-15) &= (-5) + 15 \\ &= 10 \end{aligned}$$

$$\begin{aligned} (16) \quad -12 \div \{-2 \times (4-6)\} &= -12 \div \{-2 \times (-2)\} \\ &= -12 \div 4 \\ &= -3 \end{aligned}$$

$$\begin{aligned} (17) \quad -3(x+5) &= -2(x-4) \\ -3x-15 &= -2x+8 \\ -3x+2x &= 8+15 \\ -x &= 23 \\ x &= -23 \end{aligned}$$

$$\begin{aligned} (18) \quad 7x-3 &= 11 \\ 7x &= 11+3 \\ 7x &= 14 \\ x &= 2 \end{aligned}$$

(19) $0.2x+0.8=3$ 両辺に 10 をかけて

$$\begin{aligned} (0.2x+0.8) \times 10 &= 3 \times 10 \\ 2x+8 &= 30 \\ 2x &= 30-8 \\ 2x &= 22 \\ x &= 11 \end{aligned}$$

(20) $\frac{5}{2}x+1=\frac{2}{3}x$ 両辺に 6 をかけて

$$\begin{aligned} \left(\frac{5}{2}x+1\right) \times 6 &= \frac{2}{3}x \times 6 \\ 15x+6 &= 4x \\ 15x-4x &= -6 \\ 11x &= -6 \\ x &= -\frac{6}{11} \end{aligned}$$