

計算たしかめミックス (4)

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。

$$(1) \quad -2 + (-5) = -(2+5) \\ = -7$$

$$(2) \quad (-6) \times (-9) = +(6 \times 9) \\ = 54$$

$$(3) \quad (-1) + (+7) - (-5) = -1 + 7 + 5 \\ = 7 + 5 - 1 \\ = 11$$

$$(4) \quad 9 \div 4 \times (-12) = 9 \times \frac{1}{4} \times (-12) \\ = -\left(9 \times \frac{1}{4} \times 12\right) \\ = -27$$

$$(5) \quad 18x \div (-6) = -3x$$

$$(6) \quad (-5) \times 4a = -20a$$

$$(7) \quad (3x+1) + (4x-7) = 3x+1+4x-7 \\ = (3+4)x + (1-7) \\ = 7x-6$$

$$(8) \quad (5a+10) - (2a-5) = 5a+10-2a+5 \\ = (5-2)a + (10+5) \\ = 3a+15$$

$$(9) \quad (-3) - (-9) = (-3) + (+9) \\ = 6$$

$$(10) \quad \frac{1}{3}(6x-9) + \frac{1}{4}(8x+12) = 2x-3+2x+3 \\ = 4x$$

$$(11) \quad 3+2^3+(-5) = 3+8-5 \\ = 6$$

$$(12) \quad (-25) \div (-5) = +(25 \div 5) \\ = 5$$

$$(13) \quad 2 - (-6) \div \left(-\frac{3}{5}\right) = 2 - (-6) \times \left(-\frac{5}{3}\right) \\ = 2 - 10 \\ = -8$$

$$(14) \quad \frac{1}{2}(6x+8) - \frac{1}{5}(10x+5) = 3x+4-2x-1 \\ = x+3$$

$$(15) \quad \frac{x-5}{4} \times 12 = \frac{(x-5) \times 12}{4} \\ = (x-5) \times 3 \\ = 3x-15$$

$$(16) \quad (18a-8) \div 2 = \frac{18a-8}{2} \\ = \frac{18a}{2} + \left(-\frac{8}{2}\right) \\ = 9a-4$$

$$(17) \quad 3x+7=7x-5 \\ 3x-7x=-5-7 \\ -4x=-12 \\ x=3$$

$$(18) \quad 0.3x-0.5=-2 \quad \text{両辺に } 10 \text{ をかけて} \\ (0.3x-0.5) \times 10 = -2 \times 10 \\ 3x-5=-20 \\ 3x=-15 \\ x=-5$$

$$(19) \quad \frac{3}{2}x+4=\frac{1}{6}x \quad \text{両辺に } 6 \text{ をかけて} \\ \left(\frac{3}{2}x+4\right) \times 6 = \frac{1}{6}x \times 6 \\ 9x+24=x \\ 8x=-24 \\ x=-3$$

$$(20) \quad -5x+9=-6 \\ -5x=-6-9 \\ -5x=-15 \\ x=3$$