

# 計算たしかめミックス (16)

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。

$$(1) -6 + (-15) = -(6 + 15) \\ = -21$$

$$(2) (-72) \div (+6) = -(72 \div 6) \\ = -12$$

$$(3) (2a - 1) + (3a - 5) = 2a - 1 + 3a - 5 \\ = (2 + 3)a + (-1 - 5) \\ = 5a - 6$$

$$(4) \{(6 - 14) \div (-2)\} + 5 \times (-3) \\ = \{(-8) \div (-2)\} + 5 \times (-3) \\ = 4 - 15 \\ = -11$$

$$(5) (-15) \times (-11) = +(15 \times 11) \\ = 165$$

$$(6) 3(6a - 1) - 2(a - 7) = 18a - 3 - 2a + 14 \\ = 16a + 11$$

$$(7) (16a - 12) \div 4 = \frac{16a - 12}{4} \\ = \frac{16a}{4} + \left(-\frac{12}{4}\right) \\ = 4a - 3$$

$$(8) 7 - 3 \times 5 = 7 - 15 \\ = -8$$

$$(9) -3 \times 6 - 72 \div (-2^3) \\ = -3 \times 6 - 72 \div (-8) \\ = -18 + 9 \\ = -9$$

$$(10) \frac{x+5}{3} \times 12 = \frac{(x+5) \times 12}{3} \\ = (x+5) \times 4 \\ = 4x + 20$$

$$(11) 3 \div 9 \times (-27) = 3 \times \frac{1}{9} \times (-27) \\ = -\left(3 \times \frac{1}{9} \times 27\right) \\ = -9$$

$$(12) 5 + 6^2 + (-7) = 5 + 36 + (-7) \\ = 41 - 7 \\ = 34$$

$$(13) -120a \div 8 = -15a$$

$$(14) (+9) + (-11) + (-13) = 9 - 11 - 13 \\ = -15$$

$$(15) \frac{1}{2}(4x - 8) + \frac{1}{3}(9x - 3) = 2x - 4 + 3x - 1 \\ = 5x - 5$$

$$(16) 9 - (-2) \div \left(-\frac{2}{5}\right) = 9 - (-2) \times \left(-\frac{5}{2}\right) \\ = 9 - 5 \\ = 4$$

$$(17) -2x - 7 = -6x + 5 \\ -2x + 6x = 5 + 7 \\ 4x = 12 \\ x = 3$$

$$(18) \frac{1}{2}x + 3 = \frac{1}{3}x + 5 \quad \text{両辺に 6 をかけて} \\ 3x + 18 = 2x + 30 \\ 3x - 2x = 30 - 18 \\ x = 12$$

$$(19) 0.09x - 0.08 = 1 \quad \text{両辺に 100 をかけて} \\ (0.09x - 0.08) \times 100 = 1 \times 100 \\ 9x - 8 = 100 \\ 9x = 108 \\ x = 12$$

$$(20) 5(2x - 3) = 3(2x - 4) \\ 10x - 15 = 6x - 12 \\ 10x - 6x = -12 + 15 \\ 4x = 3 \\ x = \frac{3}{4}$$