

計算たしかめミックス (13)

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。

$$(1) \quad 64x \div (-4) = -16x$$

$$(2) \quad (-9) \times 13a = -117a$$

$$(3) \quad -11 + (-4) = -(11 + 4) \\ = -15$$

$$(4) \quad (-90) \div (+6) = -(90 \div 6) \\ = -15$$

$$(5) \quad (-3x + 5) + (4x - 1) = -3x + 5 + 4x - 1 \\ = (-3 + 4)x + (5 - 1) \\ = x + 4$$

$$(6) \quad (-5) - (-9) + (-3) = -5 + 9 - 3 \\ = 9 - 5 - 3 \\ = 1$$

$$(7) \quad 4 - (-2) \div \left(-\frac{2}{3}\right) = 4 - (-2) \times \left(-\frac{3}{2}\right) \\ = 4 - 3 \\ = 1$$

$$(8) \quad 4 \div 3 \times (-15) = 4 \times \frac{1}{3} \times (-15) \\ = -\left(4 \times \frac{1}{3} \times 15\right) \\ = -20$$

$$(9) \quad (-15) \times (-13) = +(15 \times 13) \\ = 195$$

$$(10) \quad (24a - 15) \div 3 = \frac{24a - 15}{3} \\ = \frac{24a}{3} + \left(-\frac{15}{3}\right) \\ = 8a - 5$$

$$(11) \quad \frac{6}{7} \times \left\{-\frac{1}{3} + \left(-\frac{5}{6}\right)\right\} = \frac{6}{7} \times \left(-\frac{1}{3} - \frac{5}{6}\right) \\ = \frac{6}{7} \times \left(-\frac{2}{6} - \frac{5}{6}\right) \\ = \frac{6}{7} \times \left(-\frac{7}{6}\right) \\ = -1$$

$$(12) \quad \frac{1}{5} - \frac{1}{2} + (-0.4) = \frac{2}{10} - \frac{5}{10} - \frac{4}{10} \\ = \frac{2-9}{10} \\ = -\frac{7}{10}$$

$$(13) \quad (-2)^3 \times (-1)^2 = -8 \times 1 \\ = -8$$

$$(14) \quad \frac{1}{2}(6x - 8) - \frac{1}{3}(3x - 9) = 3x - 4 - x + 3 \\ = 2x - 1$$

$$(15) \quad 2 \times (-12) - 18 \div (-2) = -24 - (-9) \\ = -24 + 9 \\ = -15$$

$$(16) \quad (-19) - (-24) = -19 + 24 \\ = 5$$

$$(17) \quad 0.6x - 0.2 = -2 \quad \text{両辺に } 10 \text{ をかけて}$$

$$(0.6x - 0.2) \times 10 = -2 \times 10 \\ 6x - 2 = -20 \\ 6x = -18 \\ x = -3$$

$$(18) \quad \frac{1}{4}x + 5 = \frac{1}{2}x + 3 \quad \text{両辺に } 4 \text{ をかけて} \\ x + 20 = 2x + 12 \\ x - 2x = 12 - 20 \\ -x = -8 \\ x = 8$$

$$(19) \quad 3(x - 5) = 2(x - 7) \\ 3x - 15 = 2x - 14 \\ 3x - 2x = -14 + 15 \\ x = 1$$

$$(20) \quad -2x + 9 = -5 \\ -2x = -5 - 9 \\ -2x = -14 \\ x = 7$$