

計算たしかめミックス (18)

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。

$$(1) 108x \div (-9) = -12x$$

$$(2) (-8) \times 14a = -112a$$

$$(3) -13 + (-8) = -(13 + 8) \\ = -21$$

$$(4) (-56) \div (+4) = -(56 \div 4) \\ = -14$$

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

$$(6) (-6) - (-9) + (-5) = -6 + 9 - 5 \\ = 9 - 6 - 5 \\ = -2$$

$$(7) 8 - (-3) \div \left(-\frac{3}{5}\right) = 8 - (-3) \times \left(-\frac{5}{3}\right) \\ = 8 - 5 \\ = 3$$

$$(8) 6 \div 5 \times (-10) = 6 \times \frac{1}{5} \times (-10) \\ = -\left(6 \times \frac{1}{5} \times 10\right) \\ = -12$$

$$(9) (-14) \times (-16) = +(14 \times 16) \\ = 224$$

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

$$(11) \frac{3}{5} \times \left\{-\frac{1}{2} + \left(-\frac{7}{6}\right)\right\} = \frac{3}{5} \times \left(-\frac{1}{2} - \frac{7}{6}\right) \\ = \frac{3}{5} \times \left(-\frac{3}{6} - \frac{7}{6}\right) \\ = \frac{3}{5} \times \left(-\frac{10}{6}\right) \\ = -1$$

$$(12) \frac{2}{5} - \frac{3}{2} + (-0.7) = \frac{4}{10} - \frac{15}{10} - \frac{7}{10} \\ = -\frac{18}{10} \\ = -\frac{9}{5}$$

$$(13) (-5)^2 \times (-1)^3 = 25 \times (-1) \\ = -25$$

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

$$(15) 3 \times (-9) - 16 \div (-2) = -27 - (-8) \\ = -27 + 8 \\ = -19$$

$$(16) (-29) - (-14) = -29 + 14 \\ = -15$$

$$(17) 0.7x + 0.1 = -2 \quad \text{両辺に } 10 \text{ をかけて} \\ (0.7x + 0.1) \times 10 = -2 \times 10 \\ 7x + 1 = -20 \\ 7x = -21 \\ x = -3$$

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

$$(19) 4(x - 6) = 3(x - 1) \\ 4x - 24 = 3x - 3 \\ 4x - 3x = -3 + 24 \\ x = 21$$

$$(20) -3x + 7 = -5 \\ -3x = -5 - 7 \\ -3x = -12 \\ x = 4$$