

計算たしかめミックス (5)

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。

$$(1) 10a \div (-2) = -5a$$

$$(2) (-3) \times 5b = -15b$$

$$(3) (-8) - (-12) = (-8) + (+12) \\ = 4$$

$$(4) \frac{1}{2}(6x - 12) + \frac{1}{3}(12x + 6) = 3x - 6 + 4x + 2 \\ = 7x - 4$$

$$(5) (-36) \div (-4) = +(36 \div 4) \\ = 9$$

$$(6) (-5) \times (-13) = +(5 \times 13) \\ = 65$$

$$(7) (-19) + (-21) = -(19 + 21) \\ = -40$$

$$(8) \frac{1}{4}(8x + 24) - \frac{1}{3}(9x + 3) = 2x + 6 - 3x - 1 \\ = -x + 5$$

$$(9) -4 + 3^2 + (-1) = -4 + 9 - 1 \\ = 9 - 4 - 1 \\ = 4$$

$$(10) (24a - 8) \div 4 = \frac{24a - 8}{4} \\ = \frac{24a}{4} + \left(-\frac{8}{4}\right) \\ = 6a - 2$$

$$(11) (2x + 5) + (3x - 7) = 2x + 5 + 3x - 7 \\ = (2 + 3)x + (5 - 7) \\ = 5x - 2$$

$$(12) (-7) + (+5) - (-10) = -7 + 5 + 10 \\ = 5 + 10 - 7 \\ = 8$$

$$(13) 1 - (-8) \div \left(-\frac{4}{5}\right) = 1 - (-8) \times \left(-\frac{5}{4}\right) \\ = 1 - 10 \\ = -9$$

$$(14) \frac{a+5}{2} \times 6 = \frac{(a+5) \times 6}{2} \\ = (a+5) \times 3 \\ = 3a + 15$$

$$(15) 6 \div 3 \times (-5) = 6 \times \frac{1}{3} \times (-5) \\ = -\left(6 \times \frac{1}{3} \times 5\right) \\ = -10$$

$$(16) (3x - 7) - (2x - 8) = 3x - 7 - 2x + 8 \\ = (3 - 2)x + (-7 + 8) \\ = x + 1$$

$$(17) \frac{3}{4}x + 5 = \frac{7}{6}x \quad \text{両辺に 12 をかけて} \\ \left(\frac{3}{4}x + 5\right) \times 12 = \frac{7}{6}x \times 12 \\ 9x + 60 = 14x \\ -5x = -60 \\ x = 12$$

$$(18) -5x - 13 = 3x + 11 \\ -5x - 3x = 11 + 13 \\ -8x = 24 \\ x = -3$$

$$(19) 5x + 2 = -8 \\ 5x = -8 - 2 \\ 5x = -10 \\ x = -2$$

$$(20) 0.6x - 0.4 = 5 \quad \text{両辺に 10 をかけて} \\ (0.6x - 0.4) \times 10 = 5 \times 10 \\ 6x - 4 = 50 \\ 6x = 54 \\ x = 9$$