

計算たしかめミックス (10)

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。

$$(1) 100x \div (-4) = -25x$$

$$(2) (-6) \times 5a = -30a$$

$$(3) (-13) - (-5) = (-13) + (+5) \\ = -8$$

$$(4) \frac{1}{4}(12x - 8) + \frac{1}{2}(8x + 6) = 3x - 2 + 4x + 3 \\ = 7x + 1$$

$$(5) (-56) \div (-7) = +(56 \div 7) \\ = 8$$

$$(6) (-3) \times (-17) = +(3 \times 17) \\ = 51$$

$$(7) (-9) + (-15) = -(9 + 15) \\ = -24$$

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

$$(9) -7 + 5^2 + (-6) = -7 + 25 - 6 \\ = 25 - 7 - 6 \\ = 12$$

$$(10) (96a - 12) \div 4 = \frac{96a - 12}{4} \\ = \frac{96a}{4} + \left(-\frac{12}{4}\right) \\ = 24a - 3$$

$$(11) (5x + 4) + (7x - 3) = 5x + 4 + 7x - 3 \\ = (5 + 7)x + (4 - 3) \\ = 12x + 1$$

$$(12) (-8) + (+7) - (-15) = -8 + 7 + 15 \\ = 7 + 15 - 8 \\ = 14$$

$$(13) 3 - (-6) \div \left(-\frac{3}{2}\right) = 3 - (-6) \times \left(-\frac{2}{3}\right) \\ = 3 - 4 \\ = -1$$

$$(14) \frac{a - 4}{3} \times 6 = \frac{(a - 4) \times 6}{3} \\ = (a - 4) \times 2 \\ = 2a - 8$$

$$(15) 9 \div 4 \times (-8) = 9 \times \frac{1}{4} \times (-8) \\ = -\left(9 \times \frac{1}{4} \times 8\right) \\ = -18$$

$$(16) (5x - 4) - (6x - 3) = 5x - 4 - 6x + 3 \\ = (5 - 6)x + (-4 + 3) \\ = -x - 1$$

$$(17) \frac{5}{6}x + 3 = \frac{7}{3}x \quad \text{両辺に 6 をかけて}$$

$$(18) 2x - 7 = 3x + 5$$

$$\left(\frac{5}{6}x + 3\right) \times 6 = \frac{7}{3}x \times 6 \\ 5x + 18 = 14x \\ -9x = -18 \\ x = 2$$

$$2x - 3x = 5 + 7 \\ -x = 12 \\ x = -12$$

$$(19) 3x + 2 = 8 \\ 3x = 8 - 2 \\ 3x = 6 \\ x = 2$$

$$(20) 0.3x - 0.2 = 4 \quad \text{両辺に 10 をかけて} \\ (0.3x - 0.2) \times 10 = 4 \times 10 \\ 3x - 2 = 40 \\ 3x = 42 \\ x = 14$$