

# 計算たしかめミックス (7)

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。

$$(1) 54x \div (-6) = -9x$$

$$(2) (-5) \times 7a = -35a$$

$$(3) -10 + (-3) = -(10 + 3) \\ = -13$$

$$(4) (-72) \div (+6) = -(72 \div 6) \\ = -12$$

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

$$(6) (-8) - (-5) - (-9) = -8 + 5 + 9 \\ = 5 + 9 - 8 \\ = 6$$

$$(7) (-a + 3) - (-3a - 2) = -a + 3 + 3a + 2 \\ = (-1 + 3)a + (3 + 2) \\ = 2a + 5$$

$$(8) 3 \div 5 \times (-20) = 3 \times \frac{1}{5} \times (-20) \\ = -\left(3 \times \frac{1}{5} \times 20\right) \\ = -12$$

$$(9) (-9) \times (-13) = +(9 \times 13) \\ = 117$$

$$(10) 3 + (-3)^3 + (-9) = 3 - 27 + (-9) \\ = -33$$

$$(11) 4 - (-5) \div \left(-\frac{5}{4}\right) = 4 - (-5) \times \left(-\frac{4}{5}\right) \\ = 4 - 4 \\ = 0$$

$$(12) \frac{1}{3}(9a + 3) + \frac{1}{2}(8a - 6) = 3a + 1 + 4a - 3 \\ = 7a - 2$$

$$(13) \frac{x+5}{3} \times 9 = \frac{(x+5) \times 9}{3} \\ = (x+5) \times 3 \\ = 3x + 15$$

$$(14) (36a - 9) \div 3 = \frac{36a - 9}{3} \\ = \frac{36a}{3} + \left(-\frac{9}{3}\right) \\ = 12a - 3$$

$$(15) (-5) - (-4) = (-5) + (+4) \\ = -1$$

$$(16) \frac{1}{2}(8x - 6) - \frac{1}{3}(3x + 9) = 4x - 3 - x - 3 \\ = 3x - 6$$

$$(17) 0.9x - 0.3 = -3 \quad \text{両辺に 10 をかけて}$$

$$(18) \frac{1}{4}x = \frac{1}{6}x + 3 \quad \text{両辺に 12 をかけて}$$

$$(0.9x - 0.3) \times 10 = -3 \times 10$$

$$\frac{1}{4}x \times 12 = \left(\frac{1}{6}x + 3\right) \times 12$$

$$9x - 3 = -30$$

$$3x = 2x + 36$$

$$9x = -27$$

$$3x - 2x = 36$$

$$x = -3$$

$$x = 36$$

$$(19) 4(x + 5) = 5x - 8$$

$$(20) -3x + 7 = -5$$

$$4x + 20 = 5x - 8$$

$$-3x = -5 - 7$$

$$4x - 5x = -8 - 20$$

$$-3x = -12$$

$$-x = -28$$

$$x = 4$$

$$x = 28$$