

1次式の乗除② 解答と解説

1. **解答** (1) $2x$ (2) $-4a$ (3) $-4x$ (4) $9y$

$$(1) 8x \div 4 = \frac{8x}{4}$$

$$= \frac{8 \times x}{4}$$

$$= 2x$$

$$(2) 12a \div (-3) = \frac{12a}{-3}$$

$$= -\frac{12a}{3}$$

$$= -\frac{12 \times a}{3}$$

$$= -4a$$

$$(3) -24x \div 6 = \frac{-24x}{6}$$

$$= -\frac{24x}{6}$$

$$= -\frac{24 \times x}{6}$$

$$= -4x$$

$$(4) -18y \div (-2) = \frac{-18y}{-2}$$

$$= \frac{18y}{2}$$

$$= \frac{18 \times y}{2}$$

$$= 9y$$

2. **解答** (1) $x+3$ (2) $6a-4$ (3) $-2x+1$ (4) $-5y-1$

$$(1) (3x+9) \div 3 = (3x+9) \times \frac{1}{3}$$

$$= 3x \times \frac{1}{3} + 9 \times \frac{1}{3}$$

$$= x+3$$

$$(2) (12a-8) \div 2 = (12a-8) \times \frac{1}{2}$$

$$= 12a \times \frac{1}{2} - 8 \times \frac{1}{2}$$

$$= 6a-4$$

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

$$= 6x \times \left(-\frac{1}{3}\right) - 3 \times \left(-\frac{1}{3}\right)$$

$$= -2x+1$$

$$(4) (20y+4) \div (-4) = (20y+4) \times \left(-\frac{1}{4}\right)$$

$$= 20y \times \left(-\frac{1}{4}\right) + 4 \times \left(-\frac{1}{4}\right)$$

$$= -5y-1$$

3. **解答** (1) $11x+3$ (2) $-3a+17$

$$(1) 3(x-1) + 2(4x+3) = 3x-3+8x+6$$

$$= 3x+8x-3+6$$

$$= 11x+3$$

$$(2) 4(3a+2) - 3(5a-3) = 12a+8-15a+9$$

$$= 12a-15a+8+9$$

$$= -3a+17$$

4. 解答 (1) 19 (2) $-3a-12$ (3) $5x-5$ (4) $-3y+8$

$$(1) \quad 5(2x+3)-2(5x-2)=10x+15-10x+4 \\ =10x-10x+15+4$$

$$=19$$

$$(2) \quad 7(3a-6)+6(-4a+5)=21a-42-24a+30 \\ =21a-24a-42+30$$

$$=-3a-12$$

$$(3) \quad \frac{1}{2}(8x-4)+\frac{1}{5}(5x-15)=4x-2+x-3$$

$$=4x+x-2-3$$

$$=5x-5$$

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

$$=y-4y+6+2$$

$$=-3y+8$$