

P11

$$(例1) \quad ① \quad (4xy^2 + 6x^2y) \div 2x = \frac{4xy^2}{2x} + \frac{6x^2y}{2x}$$

$$= 2y^2 + 3xy$$

$$\div 2x = x \cdot \frac{1}{2x}$$

↗ 逆数をかける.

$$② \quad (4a^2 + ab) \div \frac{1}{2}a = (4a^2 + ab) \times \frac{2}{a}$$

$$= \frac{4a^2 \times 2}{a} + \frac{ab \times 2}{a}$$

$$= 8a + 2b$$

$$\frac{1}{2}a = \frac{a}{2}$$

①符号 ②計算

$$(例2) \quad (1) \quad (8a^2b + 2ab) \div (-2b)$$

$$= \frac{8a^2b}{-2b} - \frac{2ab}{2b} = 1.$$

$$= -4a^2 - 1$$

$$(2) \quad (6a^2b - 9ab^2) \div 3ab$$

$$= \frac{6a^2b}{3ab} - \frac{9ab^2}{3ab}$$

$$= 2a - 3b$$

$$(3) \quad (x^2y + xy^2 - x) \div x$$

$$= \frac{x^2y}{x} + \frac{xy^2}{x} - \frac{x}{x}$$

$$= xy + y^2 - 1$$

$$(4) \quad (12a^2b - 8ab) \div \left(-\frac{4}{5}ab\right)$$

$$= (12a^2b - 8ab) \times \left(-\frac{5}{4ab}\right)$$

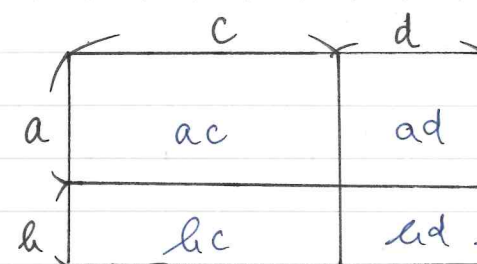
$$= -\frac{3+2a^2b \times 5}{4ab} + \frac{2ab \times 5}{4ab}$$

$$= -15a + 10$$

P12

(例1) 右の図の長方形の面積を求めよう

$$\begin{aligned} (a+b) \times (c+d) \\ &= a \times (c+d) + b \times (c+d) \\ &= ac + ad + bc + bd \end{aligned}$$



P13
(例2)

$$① \quad (x+3)(y+5)$$

$$= xy + 5x + 3y + 15$$

$$② \quad (a+7)(b-2)$$

$$= ab - 2a + 7b - 14$$

★符号注意

$$(例3) \quad (1) \quad (x+6)(y+2) \quad (2) \quad (a-3)(b+2)$$

$$= xy + 2x + 6y + 12 \quad = ab + 2a - 3b - 6$$

$$(例4) \quad (3x+2)(x-4) = 3x^2 - 12x + 2x - 8$$

$$= 3x^2 - 10x - 8$$

$$(例5) \quad (1) \quad (a-b)(c-d) \quad (2) \quad (2x+1)(y-7)$$

$$= ac - ad - bc + bd \quad = 2xy - 14x + y - 7$$

$$(3) \quad (2a+b)(a+3b) = 2a^2 + 6ab + ab + 3b^2$$

$$= 2a^2 + 7ab + 3b^2$$

$$(3) \quad (x+2)(x+4)$$

$$= x^2 + 4x + 2x + 8$$

$$= x^2 + 6x + 8$$

$$(4) \quad (x-2)(x-3)$$

$$= x^2 - 3x - 2x + 6$$

$$= x^2 - 5x + 6$$

$$(6) \quad (4x-1)(3x-2)$$

$$= 12x^2 - 8x - 3x + 2$$

$$= 12x^2 - 11x + 2$$

$$(a+b)(c+d)$$

↗ ×が省略
"M"に置き換える.

$$= (a+b)M$$

$$= aM + bM$$

$$= a(c+d) + b(c+d)$$

$$= \underline{ac + ad + bc + bd}$$

展開する

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