

# 解答 (P16, 17)

たしかめ①

$$\begin{aligned} (1) \quad & 5x \times 4y \\ & = 5 \times 4 \times x \times y \\ & = 20xy \end{aligned} \qquad \begin{aligned} (2) \quad & 3x \times (-6y) \\ & = 3 \times (-6) \times x \times y \\ & = -18xy \end{aligned}$$

問1

$$\begin{aligned} (1) \quad & (-3n) \times (-2m) & (2) \quad & (-2ab) \times 4c \\ & = 6mn & & = -8abc \end{aligned}$$

$$(3) \quad \frac{1}{3}y \times 6x = 2xy$$

※ 数は数、文字は文字。  
最後に合わせてる。

たしかめ②

$$\begin{aligned} (1) \quad & 5a \times (-a^2) \\ & = 5 \times (-1) \times a \times a \times a \\ & = -5a^3 \end{aligned}$$

$$\begin{aligned} (2) \quad & (-2x)^2 \\ & = (-2x) \times (-2x) \\ & = 4x^2 \end{aligned}$$

問2

$$\begin{aligned} (1) \quad & ab \times 4ab^2 & (2) \quad & (-a^3) \times 2b \\ & = 4a^2b^3 & & = -2a^3b \end{aligned}$$

たしかめ③

$$\begin{aligned} (1) \quad & 6ab \div 3a & (\text{別解}) \quad & 6ab \div 3a \\ & = \frac{2\cancel{6}ab}{\cancel{3}a} & & = 6ab \times \frac{1}{3a} \\ & = 2b & & = \frac{2\cancel{6} \times \cancel{a} \times b \times 1}{\cancel{3} \times \cancel{a}} \\ & & & = 2b \end{aligned}$$

$$\begin{aligned} (2) \quad & (-10xy) \div \frac{5}{2}x \\ & = (-10xy) \times \frac{2}{5x} \\ & = \frac{-\cancel{10}xy \times 2}{\cancel{5}x} \\ & = -4y \end{aligned}$$

問3

$$\begin{aligned} (1) \quad & 9xy \div (-3xy) \\ & = \frac{\cancel{9}xy}{\cancel{3}xy} \\ & = -3 \end{aligned}$$

$$\begin{aligned} (2) \quad & 8x^2 \div (-6x) \\ & = 8x^2 \times \left(-\frac{1}{6x}\right) \\ & = \frac{\cancel{8} \times x \times x}{\cancel{3} \times 6x} \\ & = -\frac{4x}{3} \end{aligned}$$

$$\begin{aligned} (3) \quad & (-4xy^2) \div \frac{1}{2}xy \\ & = (-4xy^2) \times \frac{2}{xy} \\ & = \frac{\cancel{4}xy^{\cancel{2}} \times 2}{\cancel{1}xy} \\ & = -8y \end{aligned}$$

$$\begin{aligned} (4) \quad & \frac{2}{3}b^2c \div \frac{5}{6}bc^2 \\ & = \frac{2}{3}b^2c \times \frac{6}{5bc^2} \\ & = \frac{2\cancel{6} \times \cancel{c} \times 6}{\cancel{3} \times 5\cancel{b} \times \cancel{c}^2} \\ & = \frac{4b}{5c} \end{aligned}$$

(別解)  $8x^2 \div (-6x)$   
 $= \frac{\cancel{8}x^{\cancel{2}}}{\cancel{3} \times 6x}$   
 $= -\frac{4x}{3}$

※ 文字の約分を  
 $\frac{x^2}{x} = x$ ,  $\frac{x^3}{x} = x^2$   
 と計算してよ。

問4

例. わる式は  $\frac{5}{2}a = \frac{5a}{2}$  なので、その逆数  
 $\frac{2}{5a}$  をかけなければならない。

<正しい答え>

$$\begin{aligned} & 2ab^2 \div \frac{5}{2}a \\ & = 2ab^2 \times \frac{2}{5a} \\ & = \frac{2\cancel{a}b^2 \times 2}{5\cancel{a}} \\ & = \frac{4b^2}{5} \end{aligned}$$