

# 確認問題

## 単項式の除法

30 次の計算をなさい。

(1)  $18xy \div 3x$

$$= \frac{18xy}{3x}$$

$$= \frac{18^1 \times x^1 \times y^1}{1^1 \times 3^1 \times x^1} = 6y$$

(3)  $3y^2 \div 9y^2$

$$= \frac{3y^2}{9y^2}$$

$$= \frac{1^1 \times y^1 \times y^1}{9^1 \times y^1 \times y^1} = \frac{1}{3}$$

(5)  $(-8xy^2) \div 56x$

$$= \frac{-8xy^2}{56x} = -\frac{8xy^2}{56x}$$

$$= -\frac{1^1 \times x^1 \times y^2 \times y^1}{7^1 \times 8^1 \times x^1} = -\frac{y^2}{7}$$

(2)  $(-24xy) \div (-6y)$

$$= \frac{-24xy}{-6y}$$

$$= \frac{24^1 \times x^1 \times y^1}{1^1 \times 6^1 \times y^1} = 4x$$

(4)  $36x^3 \div (-4x^2)$

$$= \frac{36x^3}{-4x^2} = -\frac{36x^3}{4x^2}$$

$$= -\frac{36^1 \times x^1 \times x^1 \times x^1}{1^1 \times 4^1 \times x^1 \times x^1} = -9x$$

(6)  $x^2y^2 \div 5x^2y$

$$= \frac{x^2y^2}{5x^2y}$$

$$= \frac{1^1 \times x^1 \times x^1 \times y^1 \times y^1}{5^1 \times x^1 \times x^1 \times y^1} = \frac{y}{5}$$

ふりかえろう!

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31 次の計算をなさい。

(1)  $\frac{9}{10}xy \div \frac{3}{5}y$

$$= \frac{9xy}{10} \div \frac{3y}{5}$$

$$= \frac{9xy}{10} \times \frac{5}{3y} \quad \left\{ \begin{array}{l} \text{逆数} \\ \leftarrow \end{array} \right.$$

$$= \frac{3^1 \times x^1 \times y^1 \times 5^1}{2^1 \times 10^1 \times 1^1 \times y^1} = \frac{3}{2}x$$

(3)  $\frac{3}{8}x^2y \div 3xy$

$$= \frac{3x^2y}{8} \div \frac{3xy}{1}$$

$$= \frac{3x^2y}{8} \times \frac{1}{3xy} \quad \left\{ \begin{array}{l} \text{逆数} \\ \leftarrow \end{array} \right.$$

$$= \frac{1^1 \times x^1 \times x^1 \times y^1 \times 1}{8^1 \times 1^1 \times x^1 \times y^1} = \frac{x}{8}$$

(2)  $\left(-\frac{2}{15}x^2\right) \div \frac{1}{3}x$

$$= \frac{-2x^2}{15} \div \frac{x}{3}$$

$$= \frac{-2x^2}{15} \times \frac{3}{x} \quad \left\{ \begin{array}{l} \text{逆数} \\ \leftarrow \end{array} \right.$$

$$= \frac{-2 \times 1^1 \times x^2 \times 3^1}{5^1 \times 15^1 \times x^1} = -\frac{2}{5}x$$

(4)  $\left(-\frac{3}{4}x^2y^2\right) \div \left(-\frac{1}{12}xy^2\right)$

$$= \left(\frac{-3x^2y^2}{4}\right) \div \left(\frac{-xy^2}{12}\right)$$

$$= \left(\frac{-3x^2y^2}{4}\right) \times \left(\frac{12}{-xy^2}\right) \quad \left\{ \begin{array}{l} \text{逆数} \\ \leftarrow \end{array} \right.$$

$$= \frac{-3 \times 1^1 \times x^2 \times x^1 \times y^1 \times y^2 \times 12^3}{1^1 \times 4^1 \times (-1)^1 \times x^1 \times x^1 \times y^1 \times y^1} = 9x$$

ふりかえろう!

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