

数学018 「中2 単項式の乗法・除法 乗法と除法の混じった計算」

★ 次の計算をなさい。

$$\begin{aligned}(1) \quad & 2x \times (-3) \\ & = 2 \times (-3) \times x \\ & = -6x\end{aligned}$$

$$\begin{aligned}(2) \quad & 3x \times 4y \\ & = 3 \times 4 \times x \times y \\ & = 12xy\end{aligned}$$

① 符号
② 数字
③ 文字

の順に決定お!

$$\begin{aligned}(3) \quad & 3a \times (-2a) \\ & = 3 \times (-2) \times a \times a \\ & = -6a^2\end{aligned}$$

$$\begin{aligned}(4) \quad & 2xy \times 3x \\ & = 2 \times 3 \times x \times x \times y \\ & = 6x^2y\end{aligned}$$

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

$$\begin{aligned}(6) \quad & (-2a)^2 \\ & = (-2a) \times (-2a) \\ & = 4a^2\end{aligned}$$

$$\begin{aligned}(7) \quad & -x \times (-x)^2 \\ & = -x \times (-x) \times (-x) \\ & = -x^3\end{aligned}$$

$$\begin{aligned}(8) \quad & 12y \div 4 \\ & = 3y\end{aligned}$$

$$\begin{aligned}(9) \quad & 12ab \div 4a \\ & = 12ab \times \frac{1}{4a} \\ & = \frac{12ab}{4a} \\ & = 3b\end{aligned}$$

暗算OK!!!

$\div \frac{1}{4a}$
 $\downarrow$
 $\times \frac{1}{4a}$ 逆数

$$\begin{aligned}(10) \quad & 9x^2 \div 3x \\ & = 9x^2 \times \frac{1}{3x} \\ & = \frac{9x^2}{3x} \\ & = 3x\end{aligned}$$

$(\frac{9 \times x \times x}{3x})$

$$\begin{aligned}(11) \quad & -24ab \div (-6b) \times a \\ & = -24ab \times (-\frac{1}{6b}) \times a \\ & = \frac{24ab}{1} \times \frac{1}{6b} \times a \\ & = 4a^2\end{aligned}$$

$$\begin{aligned}(12) \quad & 7a^3 \div \frac{7}{5}a^2 \div a \\ & = 7a^3 \times \frac{5}{7a^2} \times \frac{1}{a} \\ & = \frac{7a^3 \times 5 \times 1}{7a^2 \times a} \\ & = 5\end{aligned}$$

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★ 次の計算をなさい。

$$(1) \quad 2x \times (-3)$$

$$(2) \quad 3x \times 4y$$

$$(3) \quad 3a \times (-2a)$$

$$(4) \quad 2xy \times 3x$$

$$(5) \quad (-x)^2$$

$$(6) \quad (-2a)^2$$

$$(7) \quad -x \times (-x)^2$$

$$(8) \quad 12y \div 4$$

$$(9) \quad 12ab \div 4a$$

$$(10) \quad 9x^2 \div 3x$$

$$(11) \quad -24ab \div (-6b) \times a$$

$$(12) \quad 7a^3 \div \frac{7}{5}a^2 \div a$$