

# 70

## 式の乗法・除法

年 組 番 名前

### ●例題1●

次の計算をなさい

$$\begin{aligned}
& 4x \times 5y \\
& = (4 \times x) \times (5 \times y) \\
& = (4 \times 5) \times (x \times y) \\
& = 20xy \qquad \rightarrow 60 \text{の例題1へ}
\end{aligned}$$

問1 次の計算をなさい

$$\begin{aligned}
(1) \quad & 2x \times 7y \\
& = 2 \times 7 \times x \times y \\
& = 14xy \qquad \text{答. } \underline{14xy}
\end{aligned}$$

$$\begin{aligned}
(2) \quad & (-6x) \times 4y \\
& = -6 \times 4 \times x \times y \\
& = -24xy \qquad \text{答. } \underline{-24xy}
\end{aligned}$$

$$\begin{aligned}
(3) \quad & (-3a) \times (-9b) \\
& = (-3) \times (-9) \times a \times b \\
& = 27ab \qquad \text{答. } \underline{27ab}
\end{aligned}$$

$$\begin{aligned}
(4) \quad & 8a \times \frac{3}{2}x \\
& = 8 \times \frac{3}{2} \times a \times x = 12ab \qquad \text{答. } \underline{12ab}
\end{aligned}$$

### ●例題2●

次の計算をなさい

$$\begin{aligned}
& x \times x^2 \\
& = x \times (x \times x) \\
& = x^3 \qquad \rightarrow 54 \text{の例題2へ}
\end{aligned}$$

問2 次の計算をなさい

$$\begin{aligned}
(1) \quad & a^2 \times a \\
& = a \times a \times a \\
& = a^3 \qquad \text{答. } \underline{a^3}
\end{aligned}$$

$$\begin{aligned}
(2) \quad & (-3x)^2 \\
& = (-3x) \times (-3x) \\
& = 9x^2 \qquad \text{答. } \underline{9x^2}
\end{aligned}$$

$$\begin{aligned}
(3) \quad & (-5xy) \times 2x \\
& = -5 \times 2 \times x \times x \times y \\
& = -10x^2y \qquad \text{答. } \underline{-10x^2y}
\end{aligned}$$

### ●例題3●

次の計算をなさい

$$\begin{aligned}
& 12xy \div 3x \\
& = \frac{12xy}{3x} \\
& = 4y \qquad \rightarrow 60 \text{の例題2へ}
\end{aligned}$$

問3 次の計算をなさい

$$\begin{aligned}
(1) \quad & 14ab \div 7b \\
& = \frac{14ab}{7b} \\
& = 2a \qquad \text{答. } \underline{2a}
\end{aligned}$$

$$\begin{aligned}
(2) \quad & 9xy \div (-3x) \\
& = -\frac{9xy}{3x} \\
& = -3y \qquad \text{答. } \underline{-3y}
\end{aligned}$$

$$\begin{aligned}
(3) \quad & (-10x^2y) \div 2xy \\
& = -\frac{10x^2y}{2xy} \\
& = -5x \qquad \text{答. } \underline{-5x}
\end{aligned}$$

### ●例題4●

次の計算をなさい

$$\begin{aligned}
& (-6x^2) \div \frac{1}{2}x \\
& = (-6x^2) \div \frac{x}{2} \\
& = (-6x^2) \times \frac{2}{x} \\
& = -12x \qquad \rightarrow 55 \text{の例題2へ}
\end{aligned}$$

問4 次の間に答えなさい

$$\begin{aligned}
& (-8x^2) \div \frac{2}{3}x \\
& = (-8x^2) \times \frac{3}{2x} \\
& = -12x \qquad \text{答. } \underline{-12x}
\end{aligned}$$