



# 平方根の乗除

年 組 番 名前

## ● 例題 1 ●

次の計算をなさい。

$$\begin{aligned}
 (1) \quad & \sqrt{3} \times \sqrt{5} \\
 &= \sqrt{3 \times 5} \\
 &= \sqrt{15} \qquad \rightarrow 14, 15 \sim
 \end{aligned}$$

問1 次の計算をなさい。

$$\begin{aligned}
 (1) \quad & \sqrt{2} \times \sqrt{5} \\
 &= \sqrt{10} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{10}}}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \sqrt{3} \times \sqrt{7} \\
 &= \sqrt{21} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{21}}}
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \sqrt{6} \times \sqrt{5} \\
 &= \sqrt{30} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{30}}}
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \sqrt{3} \times \sqrt{10} \\
 &= \sqrt{30} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{30}}}
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \sqrt{11} \times \sqrt{7} \\
 &= \sqrt{77} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{77}}}
 \end{aligned}$$

## ● 例題 2 ●

次の計算をなさい。

$$\begin{aligned}
 (1) \quad & \sqrt{6} \div \sqrt{3} = \frac{\sqrt{6}}{\sqrt{3}} \\
 &= \sqrt{\frac{6}{3}} \\
 &= \sqrt{2} \qquad \rightarrow 18 \sim
 \end{aligned}$$

問2 次の計算をなさい。

$$\begin{aligned}
 (1) \quad & \sqrt{6} \div \sqrt{2} \\
 &= \sqrt{3} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{3}}}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \sqrt{15} \div \sqrt{3} \\
 &= \sqrt{5} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{5}}}
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \sqrt{35} \div \sqrt{7} \\
 &= \sqrt{5} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{5}}}
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \sqrt{42} \div \sqrt{6} \\
 &= \sqrt{7} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{7}}}
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \sqrt{39} \div \sqrt{13} \\
 &= \sqrt{3} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{3}}}
 \end{aligned}$$

## ● 例題 3 ●

 次の数を  $\sqrt{a}$  の形になおしなさい。

$$\begin{aligned}
 (1) \quad & 2\sqrt{2} = 2 \times \sqrt{2} \\
 &= \sqrt{4} \times \sqrt{2} \\
 &= \sqrt{8} \qquad \rightarrow 90 \text{ の例題1} \sim
 \end{aligned}$$

 問3 次の数を  $\sqrt{a}$  の形になおしなさい。

$$\begin{aligned}
 (1) \quad & 2\sqrt{3} \\
 &= \sqrt{4} \times \sqrt{3} \\
 &= \sqrt{12} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{12}}}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & 3\sqrt{3} \\
 &= \sqrt{9} \times \sqrt{3} \\
 &= \sqrt{27} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{27}}}
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & 4\sqrt{2} \\
 &= \sqrt{16} \times \sqrt{2} \\
 &= \sqrt{32} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{32}}}
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & 5\sqrt{3} \\
 &= \sqrt{25} \times \sqrt{3} \\
 &= \sqrt{75} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{75}}}
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & 6\sqrt{5} \\
 &= \sqrt{36} \times \sqrt{5} \\
 &= \sqrt{180} \\
 & \qquad \qquad \qquad \text{答. } \underline{\underline{\sqrt{180}}}
 \end{aligned}$$