

根号を含む式の乗法

年 組 名前

/16

■ 次の計算をなさい。

① $\sqrt{15} \times 3\sqrt{2}$

② $\sqrt{20} \times \sqrt{10}$

③ $\sqrt{24} \times \sqrt{18}$

④ $\sqrt{18} \times \sqrt{14}$

⑤ $\sqrt{12} \times \sqrt{20}$

⑥ $\sqrt{35} \times \sqrt{7}$

⑦ $2\sqrt{2} \times 3\sqrt{2}$

⑧ $\sqrt{5} \times \sqrt{20}$

⑨ $2\sqrt{3} \times \sqrt{22}$

⑩ $2\sqrt{2} \times \sqrt{30}$

⑪ $\sqrt{12} \times \sqrt{32}$

⑫ $\sqrt{6} \times \sqrt{33}$

⑬ $\sqrt{28} \times \sqrt{20}$

⑭ $\sqrt{39} \times \sqrt{3}$

⑮ $\sqrt{26} \times \sqrt{12}$

⑯ $\sqrt{30} \times \sqrt{35}$

■ 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{15} \times 3\sqrt{2} \\ &= 3\sqrt{3 \times 5 \times 2} \\ &= 3\sqrt{30} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{20} \times \sqrt{10} \\ &= \sqrt{2 \times 2 \times 5 \times 2 \times 5} \\ &= 10\sqrt{2} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \sqrt{24} \times \sqrt{18} \\ &= \sqrt{2 \times 2 \times 2 \times 3 \times 2 \times 3 \times 3} \\ &= 12\sqrt{3} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \sqrt{18} \times \sqrt{14} \\ &= \sqrt{2 \times 3 \times 3 \times 2 \times 7} \\ &= 6\sqrt{7} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & \sqrt{12} \times \sqrt{20} \\ &= \sqrt{2 \times 2 \times 3 \times 2 \times 2 \times 5} \\ &= 4\sqrt{15} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & \sqrt{35} \times \sqrt{7} \\ &= \sqrt{5 \times 7 \times 7} \\ &= 7\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & 2\sqrt{2} \times 3\sqrt{2} \\ &= 6\sqrt{2 \times 2} \\ &= 12 \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & \sqrt{5} \times \sqrt{20} \\ &= \sqrt{5 \times 2 \times 2 \times 5} \\ &= 10 \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & 2\sqrt{3} \times \sqrt{22} \\ &= 2\sqrt{3 \times 2 \times 11} \\ &= 2\sqrt{66} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & 2\sqrt{2} \times \sqrt{30} \\ &= 2\sqrt{2 \times 2 \times 3 \times 5} \\ &= 4\sqrt{15} \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & \sqrt{12} \times \sqrt{32} \\ &= \sqrt{2 \times 2 \times 3 \times 2 \times 2 \times 2 \times 2 \times 2} \\ &= 8\sqrt{6} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & \sqrt{6} \times \sqrt{33} \\ &= \sqrt{2 \times 3 \times 3 \times 11} \\ &= 3\sqrt{22} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad & \sqrt{28} \times \sqrt{20} \\ &= \sqrt{2 \times 2 \times 7 \times 2 \times 2 \times 5} \\ &= 4\sqrt{35} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad & \sqrt{39} \times \sqrt{3} \\ &= \sqrt{3 \times 13 \times 3} \\ &= 3\sqrt{13} \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad & \sqrt{26} \times \sqrt{12} \\ &= \sqrt{2 \times 13 \times 2 \times 2 \times 3} \\ &= 2\sqrt{78} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & \sqrt{30} \times \sqrt{35} \\ &= \sqrt{2 \times 3 \times 5 \times 5 \times 7} \\ &= 5\sqrt{42} \end{aligned}$$