

根号を含む式の乗法

年 組 名前

/16

■ 次の計算をなさい。

① $\sqrt{10} \times \sqrt{14}$

② $\sqrt{22} \times \sqrt{10}$

③ $\sqrt{6} \times 2\sqrt{6}$

④ $\sqrt{15} \times \sqrt{39}$

⑤ $2\sqrt{2} \times \sqrt{24}$

⑥ $\sqrt{2} \times \sqrt{20}$

⑦ $2\sqrt{10} \times \sqrt{26}$

⑧ $2\sqrt{3} \times \sqrt{22}$

⑨ $\sqrt{5} \times 2\sqrt{10}$

⑩ $\sqrt{28} \times \sqrt{10}$

⑪ $3\sqrt{2} \times \sqrt{24}$

⑫ $\sqrt{32} \times 2\sqrt{3}$

⑬ $\sqrt{27} \times \sqrt{18}$

⑭ $\sqrt{2} \times \sqrt{18}$

⑮ $\sqrt{15} \times \sqrt{40}$

⑯ $\sqrt{3} \times \sqrt{6}$

■ 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{10} \times \sqrt{14} \\ & = \sqrt{2 \times 5 \times 2 \times 7} \\ & = 2\sqrt{35} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{22} \times \sqrt{10} \\ & = \sqrt{2 \times 11 \times 2 \times 5} \\ & = 2\sqrt{55} \end{aligned}$$

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

$$\begin{aligned} \textcircled{4} \quad & \sqrt{15} \times \sqrt{39} \\ & = \sqrt{3 \times 5 \times 3 \times 13} \\ & = 3\sqrt{65} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 2\sqrt{2} \times \sqrt{24} \\ & = 2\sqrt{2 \times 2 \times 2 \times 2 \times 3} \\ & = 8\sqrt{3} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & \sqrt{2} \times \sqrt{20} \\ & = \sqrt{2 \times 2 \times 2 \times 5} \\ & = 2\sqrt{10} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & 2\sqrt{10} \times \sqrt{26} \\ & = 2\sqrt{2 \times 5 \times 2 \times 13} \\ & = 4\sqrt{65} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & 2\sqrt{3} \times \sqrt{22} \\ & = 2\sqrt{3 \times 2 \times 11} \\ & = 2\sqrt{66} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & \sqrt{5} \times 2\sqrt{10} \\ & = 2\sqrt{5 \times 2 \times 5} \\ & = 10\sqrt{2} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & \sqrt{28} \times \sqrt{10} \\ & = \sqrt{2 \times 2 \times 7 \times 2 \times 5} \\ & = 2\sqrt{70} \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & 3\sqrt{2} \times \sqrt{24} \\ & = 3\sqrt{2 \times 2 \times 2 \times 2 \times 3} \\ & = 12\sqrt{3} \end{aligned}$$

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

$$\begin{aligned} \textcircled{13} \quad & \sqrt{27} \times \sqrt{18} \\ & = \sqrt{3 \times 3 \times 3 \times 2 \times 3 \times 3} \\ & = 9\sqrt{6} \end{aligned}$$

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

$$\begin{aligned} \textcircled{15} \quad & \sqrt{15} \times \sqrt{40} \\ & = \sqrt{3 \times 5 \times 2 \times 2 \times 2 \times 5} \\ & = 10\sqrt{6} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & \sqrt{3} \times \sqrt{6} \\ & = \sqrt{3 \times 2 \times 3} \\ & = 3\sqrt{2} \end{aligned}$$