

根号を含む式の乗法

年 組 名前

/16

■ 次の計算をなさい。

① $\sqrt{2} \times \sqrt{28}$

② $\sqrt{33} \times \sqrt{24}$

③ $\sqrt{24} \times \sqrt{27}$

④ $\sqrt{39} \times \sqrt{12}$

⑤ $\sqrt{18} \times \sqrt{38}$

⑥ $\sqrt{2} \times \sqrt{8}$

⑦ $\sqrt{22} \times \sqrt{33}$

⑧ $\sqrt{38} \times 2\sqrt{2}$

⑨ $\sqrt{2} \times \sqrt{22}$

⑩ $\sqrt{28} \times \sqrt{35}$

⑪ $\sqrt{34} \times \sqrt{10}$

⑫ $\sqrt{24} \times \sqrt{8}$

⑬ $2\sqrt{6} \times \sqrt{38}$

⑭ $\sqrt{26} \times \sqrt{14}$

⑮ $\sqrt{6} \times \sqrt{40}$

⑯ $\sqrt{22} \times \sqrt{10}$

■ 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{2} \times \sqrt{28} \\ & = \sqrt{2 \times 2 \times 2 \times 7} \\ & = 2\sqrt{14} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{33} \times \sqrt{24} \\ & = \sqrt{3 \times 11 \times 2 \times 2 \times 2 \times 3} \\ & = 6\sqrt{22} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \sqrt{24} \times \sqrt{27} \\ & = \sqrt{2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3} \\ & = 18\sqrt{2} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \sqrt{39} \times \sqrt{12} \\ & = \sqrt{3 \times 13 \times 2 \times 2 \times 3} \\ & = 6\sqrt{13} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & \sqrt{18} \times \sqrt{38} \\ & = \sqrt{2 \times 3 \times 3 \times 2 \times 19} \\ & = 6\sqrt{19} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & \sqrt{2} \times \sqrt{8} \\ & = \sqrt{2 \times 2 \times 2 \times 2} \\ & = 4 \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & \sqrt{22} \times \sqrt{33} \\ & = \sqrt{2 \times 11 \times 3 \times 11} \\ & = 11\sqrt{6} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & \sqrt{38} \times 2\sqrt{2} \\ & = 2\sqrt{2 \times 19 \times 2} \\ & = 4\sqrt{19} \end{aligned}$$

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

$$\begin{aligned} \textcircled{10} \quad & \sqrt{28} \times \sqrt{35} \\ & = \sqrt{2 \times 2 \times 7 \times 5 \times 7} \\ & = 14\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & \sqrt{34} \times \sqrt{10} \\ & = \sqrt{2 \times 17 \times 2 \times 5} \\ & = 2\sqrt{85} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & \sqrt{24} \times \sqrt{8} \\ & = \sqrt{2 \times 2 \times 2 \times 3 \times 2 \times 2 \times 2} \\ & = 8\sqrt{3} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad & 2\sqrt{6} \times \sqrt{38} \\ & = 2\sqrt{2 \times 3 \times 2 \times 19} \\ & = 4\sqrt{57} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad & \sqrt{26} \times \sqrt{14} \\ & = \sqrt{2 \times 13 \times 2 \times 7} \\ & = 2\sqrt{91} \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad & \sqrt{6} \times \sqrt{40} \\ & = \sqrt{2 \times 3 \times 2 \times 2 \times 2 \times 5} \\ & = 4\sqrt{15} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & \sqrt{22} \times \sqrt{10} \\ & = \sqrt{2 \times 11 \times 2 \times 5} \\ & = 2\sqrt{55} \end{aligned}$$