

根号を含む式の乗法

年 組 名前

/16

■ 次の計算をなさい。

① $\sqrt{30} \times \sqrt{5}$

② $\sqrt{26} \times \sqrt{32}$

③ $\sqrt{10} \times \sqrt{34}$

④ $\sqrt{39} \times \sqrt{3}$

⑤ $3\sqrt{2} \times \sqrt{26}$

⑥ $\sqrt{30} \times \sqrt{40}$

⑦ $\sqrt{24} \times \sqrt{12}$

⑧ $\sqrt{32} \times \sqrt{28}$

⑨ $\sqrt{40} \times \sqrt{15}$

⑩ $\sqrt{26} \times \sqrt{8}$

⑪ $\sqrt{10} \times \sqrt{26}$

⑫ $\sqrt{6} \times \sqrt{15}$

⑬ $\sqrt{33} \times \sqrt{15}$

⑭ $\sqrt{22} \times \sqrt{40}$

⑮ $\sqrt{32} \times \sqrt{12}$

⑯ $\sqrt{14} \times \sqrt{28}$

■ 次の計算をなさい。

$$\textcircled{1} \sqrt{30} \times \sqrt{5}$$

$$= \sqrt{2 \times 3 \times 5 \times 5}$$
$$= 5\sqrt{6}$$

$$\textcircled{2} \sqrt{26} \times \sqrt{32}$$

$$= \sqrt{2 \times 13 \times 2 \times 2 \times 2 \times 2 \times 2}$$
$$= 8\sqrt{13}$$

$$\textcircled{3} \sqrt{10} \times \sqrt{34}$$

$$= \sqrt{2 \times 5 \times 2 \times 17}$$
$$= 2\sqrt{85}$$

$$\textcircled{4} \sqrt{39} \times \sqrt{3}$$

$$= \sqrt{3 \times 13 \times 3}$$
$$= 3\sqrt{13}$$

$$\textcircled{5} 3\sqrt{2} \times \sqrt{26}$$

$$= 3\sqrt{2 \times 2 \times 13}$$
$$= 6\sqrt{13}$$

$$\textcircled{6} \sqrt{30} \times \sqrt{40}$$

$$= \sqrt{2 \times 3 \times 5 \times 2 \times 2 \times 2 \times 5}$$
$$= 20\sqrt{3}$$

$$\textcircled{7} \sqrt{24} \times \sqrt{12}$$

$$= \sqrt{2 \times 2 \times 2 \times 3 \times 2 \times 2 \times 3}$$
$$= 12\sqrt{2}$$

$$\textcircled{8} \sqrt{32} \times \sqrt{28}$$

$$= \sqrt{2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 7}$$
$$= 8\sqrt{14}$$

$$\textcircled{9} \sqrt{40} \times \sqrt{15}$$

$$= \sqrt{2 \times 2 \times 2 \times 5 \times 3 \times 5}$$
$$= 10\sqrt{6}$$

$$\textcircled{10} \sqrt{26} \times \sqrt{8}$$

$$= \sqrt{2 \times 13 \times 2 \times 2 \times 2}$$
$$= 4\sqrt{13}$$

$$\textcircled{11} \sqrt{10} \times \sqrt{26}$$

$$= \sqrt{2 \times 5 \times 2 \times 13}$$
$$= 2\sqrt{65}$$

$$\textcircled{12} \sqrt{6} \times \sqrt{15}$$

$$= \sqrt{2 \times 3 \times 3 \times 5}$$
$$= 3\sqrt{10}$$

$$\textcircled{13} \sqrt{33} \times \sqrt{15}$$

$$= \sqrt{3 \times 11 \times 3 \times 5}$$
$$= 3\sqrt{55}$$

$$\textcircled{14} \sqrt{22} \times \sqrt{40}$$

$$= \sqrt{2 \times 11 \times 2 \times 2 \times 2 \times 5}$$
$$= 4\sqrt{55}$$

$$\textcircled{15} \sqrt{32} \times \sqrt{12}$$

$$= \sqrt{2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3}$$
$$= 8\sqrt{6}$$

$$\textcircled{16} \sqrt{14} \times \sqrt{28}$$

$$= \sqrt{2 \times 7 \times 2 \times 2 \times 7}$$
$$= 14\sqrt{2}$$