根号を含む式の乗法

年　　組　名前

■ 次の計算をしなさい。

① $\sqrt{2} \times \sqrt{18}$

② $2\sqrt{10} \times \sqrt{2}$

③ $\sqrt{22} \times \sqrt{2}$

④ $\sqrt{18} \times \sqrt{39}$

⑤ $\sqrt{6} \times \sqrt{32}$

⑥ $\sqrt{38} \times \sqrt{10}$

⑦ $\sqrt{2} \times \sqrt{10}$

⑧ $\sqrt{30} \times 4\sqrt{2}$

⑨ $\sqrt{10} \times \sqrt{40}$

⑩ $\sqrt{20} \times \sqrt{28}$

⑪ $2\sqrt{3} \times 3\sqrt{2}$

⑫ $\sqrt{18} \times \sqrt{34}$

⑬ $2\sqrt{6} \times \sqrt{38}$

⑭ $\sqrt{18} \times \sqrt{14}$

⑮ $\sqrt{32} \times \sqrt{2}$

⑯ $\sqrt{14} \times \sqrt{24}$

根号を含む式の乗法

■ 次の計算をしなさい。

① $\sqrt{2} \times \sqrt{18}$

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

$= 6$

② $2\sqrt{10} \times \sqrt{2}$

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

$= 4\sqrt{5}$

③ $\sqrt{22} \times \sqrt{2}$

$= \sqrt{2 \times 11 \times 2}$

$= 2\sqrt{11}$

④ $\sqrt{18} \times \sqrt{39}$

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

$= 3\sqrt{78}$

⑤ $\sqrt{6} \times \sqrt{32}$

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

$= 8\sqrt{3}$

⑥ $\sqrt{38} \times \sqrt{10}$

$= \sqrt{2 \times 19 \times 2 \times 5}$

$= 2\sqrt{95}$

⑦ $\sqrt{2} \times \sqrt{10}$

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

$= 2\sqrt{5}$

⑧ $\sqrt{30} \times 4\sqrt{2}$

$= 4\sqrt{2 \times 3 \times 5 \times 2}$

$= 8\sqrt{15}$

⑨ $\sqrt{10} \times \sqrt{40}$

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

$= 20$

⑩ $\sqrt{20} \times \sqrt{28}$

$= \sqrt{2 \times 2 \times 5 \times 2 \times 2 \times 7}$

$= 4\sqrt{35}$

⑪ $2\sqrt{3} \times 3\sqrt{2}$

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

$= 6\sqrt{6}$

⑫ $\sqrt{18} \times \sqrt{34}$

$= \sqrt{2 \times 3 \times 3 \times 2 \times 17}$

$= 6\sqrt{17}$

⑬ $2\sqrt{6} \times \sqrt{38}$

$= 2\sqrt{2 \times 3 \times 2 \times 19}$

$= 4\sqrt{57}$

⑭ $\sqrt{18} \times \sqrt{14}$

$= \sqrt{2 \times 3 \times 3 \times 2 \times 7}$

$= 6\sqrt{7}$

⑮ $\sqrt{32} \times \sqrt{2}$

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

$= 8$

⑯ $\sqrt{14} \times \sqrt{24}$

$= \sqrt{2 \times 7 \times 2 \times 2 \times 2 \times 3}$

$= 4\sqrt{21}$