根号を含む式の乗法

■ 次の計算をしなさい。

① $\sqrt{12} \times 2\sqrt{7}$

② $\sqrt{28} \times \sqrt{20}$

③ $\sqrt{33} \times \sqrt{22}$

④ $\sqrt{12} \times \sqrt{33}$

⑤ $4\sqrt{2} \times \sqrt{20}$

⑥ $\sqrt{10} \times \sqrt{22}$

⑦ $\sqrt{33} \times \sqrt{27}$

⑧ $\sqrt{20} \times \sqrt{6}$

⑨ $\sqrt{15} \times \sqrt{12}$

⑩ $\sqrt{6} \times \sqrt{24}$

⑪ $4\sqrt{2} \times \sqrt{2}$

⑫ $2\sqrt{7} \times \sqrt{18}$

⑬ $\sqrt{35} \times \sqrt{7}$

⑭ $4\sqrt{2} \times 2\sqrt{10}$

⑮ $\sqrt{18} \times \sqrt{14}$

⑯ $3\sqrt{2} \times \sqrt{32}$

根号を含む式の乗法

年　　組　名前

■ 次の計算をしなさい。

① $\sqrt{12} \times 2\sqrt{7}$

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

$= 4\sqrt{21}$

② $\sqrt{28} \times \sqrt{20}$

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

$= 4\sqrt{35}$

③ $\sqrt{33} \times \sqrt{22}$

$= \sqrt{3 \times 11 \times 2 \times 11}$

$= 11\sqrt{6}$

④ $\sqrt{12} \times \sqrt{33}$

$= \sqrt{2 \times 2 \times 3 \times 3 \times 11}$

$= 6\sqrt{11}$

⑤ $4\sqrt{2} \times \sqrt{20}$

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

$= 8\sqrt{10}$

⑥ $\sqrt{10} \times \sqrt{22}$

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

$= 2\sqrt{55}$

⑦ $\sqrt{33} \times \sqrt{27}$

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

$= 9\sqrt{11}$

⑧ $\sqrt{20} \times \sqrt{6}$

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

$= 2\sqrt{30}$

⑨ $\sqrt{15} \times \sqrt{12}$

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

$= 6\sqrt{5}$

⑩ $\sqrt{6} \times \sqrt{24}$

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

$= 12$

⑪ $4\sqrt{2} \times \sqrt{2}$

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

$= 8$

⑫ $2\sqrt{7} \times \sqrt{18}$

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

$= 6\sqrt{14}$

⑬ $\sqrt{35} \times \sqrt{7}$

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

$= 7\sqrt{5}$

⑭ $4\sqrt{2} \times 2\sqrt{10}$

$= 8\sqrt{2 \times 2 \times 5}$

$= 16\sqrt{5}$

⑮ $\sqrt{18} \times \sqrt{14}$

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

$= 6\sqrt{7}$

⑯ $3\sqrt{2} \times \sqrt{32}$

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

$= 24$