

# 分母の有理化

年 組 名前

/24

■ 次の分数の分母を有理化しなさい。

①  $\frac{1}{3\sqrt{3}}$

②  $\frac{\sqrt{2}}{2\sqrt{3}}$

③  $\frac{3\sqrt{6}}{2\sqrt{7}}$

④  $\frac{1}{\sqrt{12}}$

⑤  $\frac{2\sqrt{2}}{3\sqrt{15}}$

⑥  $\frac{\sqrt{2}}{2\sqrt{21}}$

⑦  $\frac{\sqrt{5}}{\sqrt{14}}$

⑧  $\frac{5}{\sqrt{30}}$

⑨  $\frac{1}{2\sqrt{6}}$

⑩  $\frac{\sqrt{3}}{\sqrt{14}}$

⑪  $\frac{1}{\sqrt{7}}$

⑫  $\frac{\sqrt{6}}{\sqrt{5}}$

⑬  $\frac{2}{\sqrt{8}}$

⑭  $\frac{1}{\sqrt{28}}$

⑮  $\frac{3}{\sqrt{18}}$

⑯  $\frac{\sqrt{5}}{2\sqrt{7}}$

⑰  $\frac{\sqrt{5}}{\sqrt{3}}$

⑱  $\frac{1}{4\sqrt{5}}$

⑲  $\frac{\sqrt{5}}{3\sqrt{6}}$

⑳  $\frac{1}{\sqrt{15}}$

㉑  $\frac{2}{\sqrt{20}}$

㉒  $\frac{1}{2\sqrt{14}}$

㉓  $\frac{3}{4\sqrt{21}}$

㉔  $\frac{1}{3\sqrt{15}}$

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■ 次の分数の分母を有理化しなさい。

$$\textcircled{1} \frac{1}{3\sqrt{3}}$$

$$\frac{\sqrt{3}}{9}$$

$$\textcircled{2} \frac{\sqrt{2}}{2\sqrt{3}}$$

$$\frac{\sqrt{6}}{6}$$

$$\textcircled{3} \frac{3\sqrt{6}}{2\sqrt{7}}$$

$$\frac{3\sqrt{42}}{14}$$

$$\textcircled{4} \frac{1}{\sqrt{12}}$$

$$\frac{\sqrt{3}}{6}$$

$$\textcircled{5} \frac{2\sqrt{2}}{3\sqrt{15}}$$

$$\frac{2\sqrt{30}}{45}$$

$$\textcircled{6} \frac{\sqrt{2}}{2\sqrt{21}}$$

$$\frac{\sqrt{42}}{42}$$

$$\textcircled{7} \frac{\sqrt{5}}{\sqrt{14}}$$

$$\frac{\sqrt{70}}{14}$$

$$\textcircled{8} \frac{5}{\sqrt{30}}$$

$$\frac{\sqrt{30}}{6}$$

$$\textcircled{9} \frac{1}{2\sqrt{6}}$$

$$\frac{\sqrt{6}}{12}$$

$$\textcircled{10} \frac{\sqrt{3}}{\sqrt{14}}$$

$$\frac{\sqrt{42}}{14}$$

$$\textcircled{11} \frac{1}{\sqrt{7}}$$

$$\frac{\sqrt{7}}{7}$$

$$\textcircled{12} \frac{\sqrt{6}}{\sqrt{5}}$$

$$\frac{\sqrt{30}}{5}$$

$$\textcircled{13} \frac{2}{\sqrt{8}}$$

$$\frac{\sqrt{2}}{2}$$

$$\textcircled{14} \frac{1}{\sqrt{28}}$$

$$\frac{\sqrt{7}}{14}$$

$$\textcircled{15} \frac{3}{\sqrt{18}}$$

$$\frac{\sqrt{2}}{2}$$

$$\textcircled{16} \frac{\sqrt{5}}{2\sqrt{7}}$$

$$\frac{\sqrt{35}}{14}$$

$$\textcircled{17} \frac{\sqrt{5}}{\sqrt{3}}$$

$$\frac{\sqrt{15}}{3}$$

$$\textcircled{18} \frac{1}{4\sqrt{5}}$$

$$\frac{\sqrt{5}}{20}$$

$$\textcircled{19} \frac{\sqrt{5}}{3\sqrt{6}}$$

$$\frac{\sqrt{30}}{18}$$

$$\textcircled{20} \frac{1}{\sqrt{15}}$$

$$\frac{\sqrt{15}}{15}$$

$$\textcircled{21} \frac{2}{\sqrt{20}}$$

$$\frac{\sqrt{5}}{5}$$

$$\textcircled{22} \frac{1}{2\sqrt{14}}$$

$$\frac{\sqrt{14}}{28}$$

$$\textcircled{23} \frac{3}{4\sqrt{21}}$$

$$\frac{\sqrt{21}}{28}$$

$$\textcircled{24} \frac{1}{3\sqrt{15}}$$

$$\frac{\sqrt{15}}{45}$$