

# 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  $\frac{\sqrt{5}}{5\sqrt{7}}$

②  $\frac{1}{\sqrt{18}}$

③  $\frac{1}{3\sqrt{7}}$

④  $\frac{\sqrt{6}}{3\sqrt{5}}$

⑤  $\frac{\sqrt{6}}{3\sqrt{7}}$

⑥  $\frac{3}{\sqrt{2}}$

⑦  $\frac{1}{4\sqrt{3}}$

⑧  $\frac{\sqrt{3}}{\sqrt{5}}$

⑨  $\frac{1}{2\sqrt{6}}$

⑩  $\frac{3\sqrt{3}}{2\sqrt{2}}$

⑪  $\frac{1}{\sqrt{8}}$

⑫  $\frac{2\sqrt{2}}{5\sqrt{5}}$

⑬  $\frac{\sqrt{2}}{\sqrt{7}}$

⑭  $\frac{\sqrt{2}}{\sqrt{21}}$

⑮  $\frac{2\sqrt{5}}{3\sqrt{2}}$

⑯  $\frac{3}{4\sqrt{10}}$

⑰  $\frac{1}{3\sqrt{21}}$

⑱  $\frac{\sqrt{5}}{\sqrt{6}}$

⑲  $\frac{2}{\sqrt{28}}$

⑳  $\frac{3}{\sqrt{20}}$

㉑  $\frac{5}{\sqrt{24}}$

㉒  $\frac{\sqrt{3}}{2\sqrt{14}}$

㉓  $\frac{2}{\sqrt{21}}$

㉔  $\frac{1}{\sqrt{30}}$

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■ 次の分数の分母を有理化しなさい。

$$\textcircled{1} \frac{\sqrt{5}}{5\sqrt{7}}$$

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

$$\textcircled{2} \frac{1}{\sqrt{18}}$$

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

$$\textcircled{3} \frac{1}{3\sqrt{7}}$$

$$\frac{\sqrt{7}}{21}$$

$$\textcircled{4} \frac{\sqrt{6}}{3\sqrt{5}}$$

$$\frac{\sqrt{30}}{15}$$

$$\textcircled{5} \frac{\sqrt{6}}{3\sqrt{7}}$$

$$\frac{\sqrt{42}}{21}$$

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

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

$$\textcircled{7} \frac{1}{4\sqrt{3}}$$

$$\frac{\sqrt{3}}{12}$$

$$\textcircled{8} \frac{\sqrt{3}}{\sqrt{5}}$$

$$\frac{\sqrt{15}}{5}$$

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

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

$$\textcircled{10} \frac{3\sqrt{3}}{2\sqrt{2}}$$

$$\frac{3\sqrt{6}}{4}$$

$$\textcircled{11} \frac{1}{\sqrt{8}}$$

$$\frac{\sqrt{2}}{4}$$

$$\textcircled{12} \frac{2\sqrt{2}}{5\sqrt{5}}$$

$$\frac{2\sqrt{10}}{25}$$

$$\textcircled{13} \frac{\sqrt{2}}{\sqrt{7}}$$

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

$$\textcircled{14} \frac{\sqrt{2}}{\sqrt{21}}$$

$$\frac{\sqrt{42}}{21}$$

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

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

$$\textcircled{16} \frac{3}{4\sqrt{10}}$$

$$\frac{3\sqrt{10}}{40}$$

$$\textcircled{17} \frac{1}{3\sqrt{21}}$$

$$\frac{\sqrt{21}}{63}$$

$$\textcircled{18} \frac{\sqrt{5}}{\sqrt{6}}$$

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

$$\textcircled{19} \frac{2}{\sqrt{28}}$$

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

$$\textcircled{20} \frac{3}{\sqrt{20}}$$

$$\frac{3\sqrt{5}}{10}$$

$$\textcircled{21} \frac{5}{\sqrt{24}}$$

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

$$\textcircled{22} \frac{\sqrt{3}}{2\sqrt{14}}$$

$$\frac{\sqrt{42}}{28}$$

$$\textcircled{23} \frac{2}{\sqrt{21}}$$

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

$$\textcircled{24} \frac{1}{\sqrt{30}}$$

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