



Simplifying Fraction Exponent Expressions (Division)

Name: _____

Date: _____ Score: _____

$$\frac{\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-3}}{\left(\frac{2}{3}\right)^{-3}}$$

$$\frac{\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^9}{\left(\frac{3}{8}\right)^8}$$

$$\frac{\left(\frac{1}{7}\right)^{-2} \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^5}{\left(\frac{1}{7}\right)^{-2} \cdot \left(\frac{1}{7}\right)^{-5}}$$

$$\frac{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^3}{\left(\frac{2}{5}\right)^{-4}}$$

$$\left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{-9}$$

$$\frac{\left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^6}{\left(\frac{1}{9}\right)^8}$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^{10}}{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-5}}$$

$$\frac{\left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^{-4}}{\left(\frac{3}{7}\right)^{-6}}$$

$$\frac{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^2}$$

$$\frac{\left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^{-10}}{\left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^2}$$

$$\frac{\left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-2}}{\left(\frac{2}{7}\right)^6}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-3}}$$

$$\frac{\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-2}}{\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^9}$$

$$\frac{\left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-5} \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^{11}}$$

$$\frac{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-7}}{\left(\frac{1}{3}\right)^9}$$



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$$\frac{\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-3}}{\left(\frac{2}{3}\right)^{-3}}$$

$$\left(\frac{2}{3}\right)^{-10}$$

$$\frac{\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^9}{\left(\frac{3}{8}\right)^8}$$

$$\left(\frac{3}{8}\right)^{17}$$

$$\frac{\left(\frac{1}{7}\right)^{-2} \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^5}{\left(\frac{1}{7}\right)^{-2} \cdot \left(\frac{1}{7}\right)^{-5}}$$

$$\left(\frac{1}{7}\right)^7$$

$$\frac{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^3}{\left(\frac{2}{5}\right)^{-4}}$$

$$\left(\frac{2}{5}\right)^{10}$$

$$\left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{-9}$$

$$\left(\frac{1}{4}\right)^4$$

$$\frac{\left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^6}{\left(\frac{1}{9}\right)^8}$$

$$\left(\frac{1}{9}\right)^{15}$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^{10}}{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-5}}$$

$$\left(\frac{1}{5}\right)^6$$

$$\frac{\left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^{-4}}{\left(\frac{3}{7}\right)^{-6}}$$

$$\left(\frac{3}{7}\right)^{16}$$

$$\frac{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^2}$$

$$\left(\frac{1}{3}\right)^{19}$$

$$\frac{\left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^{-10}}{\left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^2}$$

$$\left(\frac{3}{5}\right)^{-1}$$

$$\frac{\left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-2}}{\left(\frac{2}{7}\right)^6}$$

$$\left(\frac{2}{7}\right)^{-2}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-3}}$$

$$\left(\frac{1}{3}\right)^3$$

$$\frac{\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-2}}{\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^9}$$

$$\left(\frac{1}{3}\right)^{-28}$$

$$\frac{\left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-5} \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^{11}}$$

$$\left(\frac{1}{5}\right)^{-32}$$

$$\frac{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-7}}{\left(\frac{1}{3}\right)^9}$$

$$\left(\frac{1}{3}\right)^{-10}$$