



## Simplifying Fraction Exponent Expressions (Division)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

$$\left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{-2}$$

$$\frac{\left(\frac{3}{7}\right)^2 \cdot \left(\frac{3}{7}\right)^3 \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-10}}{\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^{-3}}$$

$$\frac{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-6}}{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^6}$$

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

$$\frac{\left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-4}}{\left(\frac{1}{6}\right)^2}$$

$$\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right)^{-10}$$

$$\frac{\left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-6}}{\left(\frac{2}{5}\right)^7}$$

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

$$\frac{\left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^{-2}}{\left(\frac{1}{4}\right)^{-3}}$$

$$\frac{\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-5}}{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-9}}$$

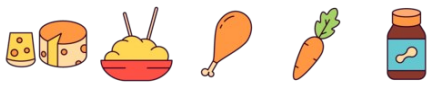
$$\frac{\left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-3}}{\left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^{-10}}$$

$$\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-8}$$

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

$$\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^6$$

$$\frac{\left(\frac{1}{6}\right)^{-9} \cdot \left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^9}{\left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^5}$$



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$$\frac{\left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{-2}}{\left(\frac{4}{5}\right)^2}$$

$$\frac{\left(\frac{3}{7}\right)^2 \cdot \left(\frac{3}{7}\right)^3 \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-10}}{\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^{-3}} \left(\frac{3}{7}\right)^{-19}$$

$$\frac{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-6}}{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^6} \left(\frac{1}{3}\right)^{-19}$$

$$\frac{\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{11}}{\left(\frac{1}{3}\right)^{-2}} \left(\frac{1}{3}\right)^{13}$$

$$\frac{\left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-4}}{\left(\frac{1}{6}\right)^2} \left(\frac{1}{6}\right)^{-8}$$

$$\frac{\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right)^{-10}}{\left(\frac{2}{5}\right)^{-10}}$$

$$\frac{\left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-6}}{\left(\frac{2}{5}\right)^7} \left(\frac{2}{5}\right)^{-13}$$

$$\frac{\left(\frac{3}{8}\right)^3 \cdot \left(\frac{3}{8}\right)^9 \cdot \left(\frac{3}{8}\right)^{-5}}{\left(\frac{3}{8}\right)^7}$$

$$\frac{\left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^{-2}}{\left(\frac{1}{4}\right)^{-3}} \left(\frac{1}{4}\right)^{16}$$

$$\frac{\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-5}}{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-9}} \left(\frac{1}{5}\right)^{-9}$$

$$\frac{\left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-3}}{\left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^{-10}} \left(\frac{1}{6}\right)^{15}$$

$$\frac{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-8}}{\left(\frac{4}{7}\right)^{-14}}$$

$$\frac{\left(\frac{2}{5}\right)^7 \cdot \left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^4}{\left(\frac{2}{5}\right)^6}$$

$$\frac{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^6}{\left(\frac{1}{3}\right)^5}$$

$$\frac{\left(\frac{1}{6}\right)^{-9} \cdot \left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^9}{\left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^5} \left(\frac{1}{6}\right)^4$$