



Simplifying Fraction Exponent Expressions  
(Division)

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

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

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

$$\frac{\left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-4}}$$

$$\frac{\left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-10}}{\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^2}$$

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

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^{10}}{\left(\frac{4}{7}\right)^4}$$

$$\frac{\left(\frac{2}{7}\right)^{-1} \cdot \left(\frac{2}{7}\right)^{-2} \cdot \left(\frac{2}{7}\right)^{11} \cdot \left(\frac{2}{7}\right)^{-9}}{\left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^{-10}}$$

$$\frac{\left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^{-4}}{\left(\frac{1}{9}\right)^{-5}}$$

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

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

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

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

$$\frac{\left(\frac{3}{8}\right)^{-2} \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^3}{\left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^6}$$

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

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

$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^{-1} \cdot \left(\frac{1}{4}\right)^{11}}{\left(\frac{1}{4}\right)^2}$$



## Simplifying Fraction Exponent Expressions (Division)

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

$$\frac{\left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-4}}$$

$$\frac{\left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-10}}{\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^2}$$

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

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^{10}}{\left(\frac{4}{7}\right)^4}$$

$$\frac{\left(\frac{2}{7}\right)^{-1} \cdot \left(\frac{2}{7}\right)^{-2} \cdot \left(\frac{2}{7}\right)^{11} \cdot \left(\frac{2}{7}\right)^{-9}}{\left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^{-10}}$$

$$\frac{\left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^{-4}}{\left(\frac{1}{9}\right)^{-5}}$$

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

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

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

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

$$\frac{\left(\frac{3}{8}\right)^{-2} \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^3}{\left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^6}$$

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

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

$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^{-1} \cdot \left(\frac{1}{4}\right)^{11}}{\left(\frac{1}{4}\right)^2}$$