



# Simplifying Fraction Exponent Expressions (Division)

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

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

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

$$\frac{\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^{11}}{\left(\frac{2}{9}\right)^{-3}}$$

$$\left(\frac{1}{7}\right)^{-6} \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^5$$

$$\frac{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-10} \cdot \left(\frac{2}{5}\right)^5 \cdot \left(\frac{2}{5}\right)^{-3}}{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-10}}$$

$$\frac{\left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)}{\left(\frac{1}{8}\right)^{-4} \cdot \left(\frac{1}{8}\right)^{11}}$$

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

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

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

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

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

$$\frac{\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-3}}{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^2}$$

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

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

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

$$\frac{\left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-3}}{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-2}}$$



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$$\frac{\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)}{\left(\frac{1}{2}\right)} \\ \left(\frac{1}{2}\right)^{-13}$$

$$\frac{\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^{11}}{\left(\frac{2}{9}\right)^{-3}} \\ \left(\frac{2}{9}\right)^{10}$$

$$\frac{\left(\frac{1}{7}\right)^{-6} \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^5}{\left(\frac{1}{7}\right)^{-8}}$$

$$\frac{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-10} \cdot \left(\frac{2}{5}\right)^5 \cdot \left(\frac{2}{5}\right)^{-3}}{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-10}} \\ \left(\frac{2}{5}\right)^2$$

$$\frac{\left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)}{\left(\frac{1}{8}\right)^{-4} \cdot \left(\frac{1}{8}\right)^{11}} \\ \left(\frac{1}{8}\right)^{-16}$$

$$\frac{\left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^{-6}}{\left(\frac{2}{3}\right)^{-3}} \\ \left(\frac{2}{3}\right)^{-14}$$

$$\frac{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-4}}{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^7} \\ \left(\frac{4}{7}\right)^{-24}$$

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

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

$$\frac{\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^{-9}}{\left(\frac{1}{7}\right)^{11}} \\ \left(\frac{1}{7}\right)^{-8}$$

$$\frac{\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-3}}{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^2} \\ \left(\frac{1}{3}\right)^2$$

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

$$\frac{\left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)^{-10} \cdot \left(\frac{2}{3}\right)^{-8}}{\left(\frac{2}{3}\right)^{-17}}$$

$$\frac{\left(\frac{1}{4}\right)^4 \cdot \left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^7}{\left(\frac{1}{4}\right)^{-5}} \\ \left(\frac{1}{4}\right)^{11}$$

$$\frac{\left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-3}}{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-2}} \\ \left(\frac{4}{7}\right)^{11}$$