



## Simplifying Fraction Exponent Expressions (Division)

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

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

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

$$\frac{\left(\frac{4}{9}\right)^5 \cdot \left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)}{\left(\frac{4}{9}\right)^{11}}$$

$$\frac{\left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^{-4} \cdot \left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^2}{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^5}$$

$$\frac{\left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^8}{\left(\frac{1}{2}\right)^{11}}$$

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

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

$$\frac{\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^5 \cdot \left(\frac{1}{8}\right)^{-10}}{\left(\frac{1}{8}\right)^3}$$

$$\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-7}}$$

$$\frac{\left(\frac{1}{5}\right) \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-4}}{\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-4}}$$

$$\frac{\left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^4}{\left(\frac{2}{7}\right)^2}$$

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

$$\frac{\left(\frac{4}{5}\right)^8 \cdot \left(\frac{4}{5}\right)^8 \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^5}{\left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^7}$$

$$\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^{-8}}{\left(\frac{1}{3}\right)^2}$$

$$\frac{\left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^9 \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^{-2}}{\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^9}$$

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