



Simplifying Fraction Exponent Expressions (Division)

Name: _____

Date: _____ Score: _____

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

$$\frac{\left(\frac{1}{7}\right)^{-4} \cdot \left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{-4} \cdot \left(\frac{1}{7}\right)^{-2}}{\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-4}}$$

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

$$\frac{\left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{-5} \cdot \left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^3}{\left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^{-2}}$$

$$\frac{\left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^9}{\left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^4}$$

$$\frac{\left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^{-5} \cdot \left(\frac{4}{9}\right)^{-4}}{\left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^{-8}}$$

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

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

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

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

$$\frac{\left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^4}{\left(\frac{2}{9}\right)^6 \cdot \left(\frac{2}{9}\right)^{-10}}$$

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

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-9}}{\left(\frac{1}{3}\right)^{-10}}$$

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

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