



# Simplifying Fraction Exponent Expressions (Division)

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

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

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

$$\frac{\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^5 \cdot \left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-3}}{\left(\frac{1}{7}\right)^6 \cdot \left(\frac{1}{7}\right)^3}$$

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{11} \cdot \left(\frac{4}{5}\right)}{\left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-3}}$$

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

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

$$\frac{\left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^{10}}{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-1}}$$

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

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

$$\frac{\left(\frac{2}{5}\right)^5 \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^3}{\left(\frac{2}{5}\right)^9}$$

$$\frac{\left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{-8}}{\left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{-9}}$$

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

$$\frac{\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^2}$$

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

$$\frac{\left(\frac{3}{8}\right)^{11} \cdot \left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^{-9}}{\left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^8}$$

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