



# Simplifier les exposants de fractions ( Division )

Nom: \_\_\_\_\_

Date: \_\_\_\_\_ Note: \_\_\_\_\_

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

$$\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^3$$

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

$$\frac{\left(\frac{3}{5}\right)^{-5} \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^4}{\left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^9}$$

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

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

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

$$\frac{\left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^{-1}}{\left(\frac{2}{3}\right)^{-1}}$$

$$\frac{\left(\frac{1}{7}\right)^6 \cdot \left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^{-5}}{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^{10}}$$

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^{-8}}{\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5}$$

$$\frac{\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^3}{\left(\frac{1}{2}\right)^{-9}}$$

$$\frac{\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^{-7}}{\left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-7}}$$

$$\frac{\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^{-5}}{\left(\frac{1}{9}\right)^{11}}$$

$$\frac{\left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^6}{\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^7}$$

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