



# Simplifier les exposants de fractions ( Division )

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

$$\frac{(\frac{4}{9})^{-8} \cdot (\frac{4}{9})^{-6} \cdot (\frac{4}{9})^3}{(\frac{4}{9})^{-11}}$$

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

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

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

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

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

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

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

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

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

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

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

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

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