



Simplifier les exposants de fractions (Division)

Nom: _____

Date: _____ Note: _____

$$\frac{\left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^{-8}}{\left(\frac{2}{9}\right)^2}$$

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

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

$$\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{11} \cdot \left(\frac{3}{8}\right)^5$$

$$\frac{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^2}{\left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^6}$$

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

$$\left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^7 \cdot \left(\frac{4}{5}\right)^{-3}$$

$$\frac{\left(\frac{3}{8}\right)^{-2} \cdot \left(\frac{3}{8}\right)^5 \cdot \left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^{-6}}{\left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^{-3}}$$

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

$$\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^{-9}$$

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

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

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

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

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



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$$\frac{\left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^{-8}}{\left(\frac{2}{9}\right)^2}$$

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

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

$$\left(\frac{1}{3}\right)^{19}$$

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

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

$$\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{11} \cdot \left(\frac{3}{8}\right)^5$$

$$\left(\frac{3}{8}\right)^{22}$$

$$\frac{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^2}{\left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^6}$$

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

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

$$\left(\frac{1}{2}\right)^{15}$$

$$\left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^7 \cdot \left(\frac{4}{5}\right)^{-3}$$

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

$$\frac{\left(\frac{3}{8}\right)^{-2} \cdot \left(\frac{3}{8}\right)^5 \cdot \left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^{-6}}{\left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^{-3}}$$

$$\left(\frac{3}{8}\right)^{11}$$

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

$$\left(\frac{3}{7}\right)$$

$$\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^{-9}$$

$$\left(\frac{1}{5}\right)^{-8}$$

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

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

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

$$\left(\frac{4}{9}\right)^{12}$$

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

$$\left(\frac{2}{5}\right)^6$$

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

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

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

$$\left(\frac{4}{9}\right)^{-22}$$