



Simplifier les exposants de fractions (Division)

Nom: _____

Date: _____ Note: _____

$$\frac{\left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^4}{\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-2}}$$

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^8}{\left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^7}$$

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

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

$$\frac{\left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^6}{\left(\frac{4}{9}\right)^{-4}}$$

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

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

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

$$\left(\frac{1}{5}\right)^7 \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-4}$$

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

$$\frac{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-8}}{\left(\frac{3}{8}\right)^{-3}}$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^3}{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^4}$$

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

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

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



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$$\frac{\left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^4}{\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-2}}$$
$$\left(\frac{1}{2}\right)^{-5}$$

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^8}{\left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^7}$$
$$\left(\frac{4}{7}\right)^{-1}$$

$$\left(\frac{1}{7}\right)^{-3} \cdot \left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-1}$$
$$\left(\frac{1}{7}\right)^{-14}$$

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

$$\frac{\left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^6}{\left(\frac{4}{9}\right)^{-4}}$$
$$\left(\frac{4}{9}\right)^{20}$$

$$\frac{\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-3}}{\left(\frac{3}{8}\right)^{11}}$$
$$\left(\frac{3}{8}\right)^{-18}$$

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

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

$$\left(\frac{1}{5}\right)^7 \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-4}$$
$$\left(\frac{1}{5}\right)^{12}$$

$$\frac{\left(\frac{4}{7}\right)^4 \cdot \left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{-8}}{\left(\frac{4}{7}\right)^3}$$
$$\left(\frac{4}{7}\right)^{-12}$$

$$\frac{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-8}}{\left(\frac{3}{8}\right)^{-3}}$$
$$\left(\frac{3}{8}\right)^{-18}$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^3}{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^4}$$
$$\left(\frac{1}{5}\right)^{-4}$$

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

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

$$\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^4$$
$$\left(\frac{1}{5}\right)^6$$