



## Simplifier les exposants de fractions ( Division )

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

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

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

$$\frac{\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right) \cdot \left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^6}{\left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^{10}}$$

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

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

$$\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^7$$

$$\frac{\left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{-1} \cdot \left(\frac{4}{5}\right)^{-10}}{\left(\frac{4}{5}\right)^{-5}}$$

$$\frac{\left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^9 \cdot \left(\frac{1}{6}\right)^3}{\left(\frac{1}{6}\right)^9}$$

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

$$\frac{\left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-2} \cdot \left(\frac{2}{5}\right)^9}{\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^4}$$

$$\frac{\left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-3} \cdot \left(\frac{2}{5}\right)^4}{\left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^5}$$

$$\frac{\left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{-7}}{\left(\frac{1}{7}\right)^{-10}}$$

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

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

$$\frac{\left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)}{\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^{-9}}$$

$$\frac{\left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^{10}}{\left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^{-5}}$$



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$$\frac{\left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)}{\left(\frac{1}{2}\right)^{-8}}$$
$$\left(\frac{1}{2}\right)^{11}$$

$$\frac{\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right) \cdot \left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^6}{\left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^{10}}$$
$$\left(\frac{4}{9}\right)^{-2}$$

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

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

$$\frac{\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^7}{\left(\frac{1}{3}\right)^{-7}}$$

$$\frac{\left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{-1} \cdot \left(\frac{4}{5}\right)^{-10}}{\left(\frac{4}{5}\right)^{-5}}$$
$$\left(\frac{4}{5}\right)^{-3}$$

$$\frac{\left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^9 \cdot \left(\frac{1}{6}\right)^3}{\left(\frac{1}{6}\right)^9}$$
$$\left(\frac{1}{6}\right)^{14}$$

$$\frac{\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^4}{\left(\frac{1}{2}\right)^8}$$
$$\left(\frac{1}{2}\right)^6$$

$$\frac{\left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-2} \cdot \left(\frac{2}{5}\right)^9}{\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^4}$$
$$\left(\frac{2}{5}\right)^{16}$$

$$\frac{\left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-3} \cdot \left(\frac{2}{5}\right)^4}{\left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^5}$$
$$\left(\frac{2}{5}\right)^{-7}$$

$$\frac{\left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{-7}}{\left(\frac{1}{7}\right)^{-10}}$$
$$\left(\frac{1}{7}\right)^{15}$$

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

$$\frac{\left(\frac{3}{8}\right)^2 \cdot \left(\frac{3}{8}\right)^{11} \cdot \left(\frac{3}{8}\right)^{-2}}{\left(\frac{3}{8}\right)^5}$$
$$\left(\frac{3}{8}\right)^6$$

$$\frac{\left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)}{\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^{-9}}$$
$$\left(\frac{1}{4}\right)^{-7}$$

$$\frac{\left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^{10}}{\left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^{-5}}$$
$$\left(\frac{1}{5}\right)^{30}$$