



Simplifier les exposants de fractions (Division)

Nom: _____

Date: _____ Note: _____

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

$$\frac{\left(\frac{4}{5}\right)^7 \cdot \left(\frac{4}{5}\right)^8 \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-2}}{\left(\frac{4}{5}\right)^5 \cdot \left(\frac{4}{5}\right)^{-7}}$$

$$\frac{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{-2}}$$

$$\frac{\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{10}}{\left(\frac{1}{3}\right)^8}$$

$$\frac{\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-5}}{\left(\frac{1}{2}\right)}$$

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

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-3}$$

$$\frac{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{10}}{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{-9}}$$

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

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

$$\frac{\left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^3}{\left(\frac{2}{3}\right)^6}$$

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

$$\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-10}}$$

$$\frac{\left(\frac{2}{3}\right)^{-10} \cdot \left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^4}{\left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^6}$$

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



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$$\frac{\left(\frac{1}{7}\right)^8 \cdot \left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)}{\left(\frac{1}{7}\right)^{-10}}$$
$$\left(\frac{1}{7}\right)^{21}$$

$$\frac{\left(\frac{4}{5}\right)^7 \cdot \left(\frac{4}{5}\right)^8 \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-2}}{\left(\frac{4}{5}\right)^5 \cdot \left(\frac{4}{5}\right)^{-7}}$$
$$\left(\frac{4}{5}\right)^6$$

$$\frac{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{-2}}$$
$$\left(\frac{1}{3}\right)$$

$$\frac{\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{10}}{\left(\frac{1}{3}\right)^8}$$
$$\left(\frac{1}{3}\right)$$

$$\frac{\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-5}}{\left(\frac{1}{2}\right)}$$
$$\left(\frac{1}{2}\right)^{-5}$$

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

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-3}$$
$$\left(\frac{1}{2}\right)^{-5}$$

$$\frac{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{10}}{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{-9}}$$
$$\left(\frac{1}{3}\right)^{40}$$

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

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

$$\frac{\left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^3}{\left(\frac{2}{3}\right)^6}$$
$$\left(\frac{2}{3}\right)^{-9}$$

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

$$\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-10}}$$
$$\left(\frac{1}{3}\right)^{23}$$

$$\frac{\left(\frac{2}{3}\right)^{-10} \cdot \left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^4}{\left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^6}$$
$$\left(\frac{2}{3}\right)^{-9}$$

$$\left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^7$$
$$\left(\frac{1}{2}\right)^0$$