

Simplifier les exposants de fractions (Division)

Nom: _____

Date: _____ Note: _____

$$\frac{\left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^9}{\left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)}$$

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

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

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

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

$$\frac{\left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^{-4} \cdot \left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{4}\right)^{-7}}{\left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)}$$

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

$$\frac{\left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-8}}{\left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^9}$$

$$\frac{\left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^7}{\left(\frac{4}{9}\right)^{10}}$$

$$\frac{\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5}{\left(\frac{4}{7}\right)^4}$$

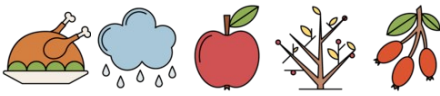
$$\frac{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^6}{\left(\frac{1}{3}\right)^{-9}}$$

$$\frac{\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^{-2} \cdot \left(\frac{1}{8}\right)^{11}}{\left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^7}$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-6}}{\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^6}$$

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

$$\frac{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^8}{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-4}}$$



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$$\frac{\left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^9}{\left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)}$$
$$\left(\frac{1}{5}\right)^{-14}$$

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

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

$$\frac{\left(\frac{1}{6}\right)^4 \cdot \left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^{-1}}{\left(\frac{1}{6}\right)}$$
$$\left(\frac{1}{6}\right)^{-5}$$

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

$$\frac{\left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^{-4} \cdot \left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{4}\right)^{-7}}{\left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)}$$
$$\left(\frac{1}{4}\right)^{-7}$$

$$\frac{\left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^5}{\left(\frac{2}{3}\right)^{14}}$$

$$\frac{\left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-8}}{\left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^9}$$
$$\left(\frac{4}{7}\right)^{-16}$$

$$\frac{\left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^7}{\left(\frac{4}{9}\right)^{10}}$$
$$\left(\frac{4}{9}\right)^{-4}$$

$$\frac{\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5}{\left(\frac{4}{7}\right)^4}$$
$$\left(\frac{4}{7}\right)^9$$

$$\frac{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^6}{\left(\frac{1}{3}\right)^{-9}}$$
$$\left(\frac{1}{3}\right)^{19}$$

$$\frac{\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^{-2} \cdot \left(\frac{1}{8}\right)^{11}}{\left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^7}$$
$$\left(\frac{1}{8}\right)^3$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{-6}}{\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^6}$$
$$\left(\frac{1}{5}\right)^{-14}$$

$$\frac{\left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right) \cdot \left(\frac{3}{8}\right)^7}{\left(\frac{3}{8}\right)^{-8}}$$
$$\left(\frac{3}{8}\right)^{10}$$

$$\frac{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^8}{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-4}}$$
$$\left(\frac{1}{3}\right)^4$$