



簡化分數指數(除法乘法)

姓名: _____

日期: _____ 分數: _____

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

$$\frac{\left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^3 \cdot \left(\frac{1}{9}\right)^{-9}}{\left(\frac{1}{9}\right)^2 \cdot \left(\frac{1}{9}\right)^6}$$

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

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

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

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

$$\frac{\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)}{\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{-10}}$$

$$\frac{\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{-8}}{\left(\frac{1}{2}\right)^8}$$

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

$$\frac{\left(\frac{4}{9}\right)^{-7} \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^4}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-7}}$$

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

$$\left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-10}$$

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

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

$$\frac{\left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^7 \cdot \left(\frac{1}{5}\right)^{-9}}{\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^3}$$



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

$$\frac{\left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^3 \cdot \left(\frac{1}{9}\right)^{-9}}{\left(\frac{1}{9}\right)^2 \cdot \left(\frac{1}{9}\right)^6}$$
$$\left(\frac{1}{9}\right)^{-25}$$

$$\frac{\left(\frac{1}{9}\right)^{-1} \cdot \left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^5}{\left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right)^9}$$
$$\left(\frac{1}{9}\right)^{15}$$

$$\frac{\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right) \cdot \left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right)^9}{\left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-9}}$$
$$\left(\frac{1}{9}\right)^{11}$$

$$\frac{\left(\frac{2}{9}\right)^{-7} \cdot \left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-5}}{\left(\frac{2}{9}\right)^{-18}}$$

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

$$\frac{\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)}{\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{-10}}$$
$$\left(\frac{1}{4}\right)^{18}$$

$$\frac{\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{-8}}{\left(\frac{1}{2}\right)^8}$$
$$\left(\frac{1}{2}\right)^{-15}$$

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

$$\frac{\left(\frac{4}{9}\right)^{-7} \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^4}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-7}}$$
$$\left(\frac{4}{9}\right)^{11}$$

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

$$\frac{\left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-10}}{\left(\frac{4}{7}\right)^{-9}}$$

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

$$\frac{\left(\frac{3}{7}\right)^{-5} \cdot \left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^{-8}}{\left(\frac{3}{7}\right)^3}$$
$$\left(\frac{3}{7}\right)^{-19}$$

$$\frac{\left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^7 \cdot \left(\frac{1}{5}\right)^{-9}}{\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^3}$$
$$\left(\frac{1}{5}\right)^{10}$$