



Simplificación de exponentes de fracciones
(división)

Nombre: _____

Fecha: _____ Puntuación: _____

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

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

$$\frac{\left(\frac{3}{7}\right)^3 \cdot \left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^{-2}}{\left(\frac{3}{7}\right)^{-3}}$$

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

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

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

$$\frac{\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^{-5}}{\left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-5}}$$

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

$$\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-10}$$

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

$$\frac{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^{-1} \cdot \left(\frac{1}{5}\right)^{-6}}{\left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)}$$

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

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

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

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



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$$\frac{\left(\frac{4}{5}\right)^{-3} \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^5}{\left(\frac{4}{5}\right)^{-8}}$$

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

$$\frac{\left(\frac{3}{7}\right)^3 \cdot \left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^{-2}}{\left(\frac{3}{7}\right)^{-3}}$$
$$\left(\frac{3}{7}\right)^{14}$$

$$\frac{\left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-2}}{\left(\frac{1}{2}\right)^{-15}}$$

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

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

$$\frac{\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^{-5}}{\left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-5}}$$
$$\left(\frac{1}{8}\right)^{-19}$$

$$\frac{\left(\frac{3}{8}\right)^9 \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^2}{\left(\frac{3}{8}\right)^{-4}}$$
$$\left(\frac{3}{8}\right)^{22}$$

$$\frac{\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-10}}{\left(\frac{3}{7}\right)^{-8}}$$

$$\frac{\left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{-1}}{\left(\frac{1}{5}\right)^{-9}}$$
$$\left(\frac{1}{5}\right)^{22}$$

$$\frac{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^{-1} \cdot \left(\frac{1}{5}\right)^{-6}}{\left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)}$$
$$\left(\frac{1}{5}\right)^{-5}$$

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

$$\frac{\left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right)^8}{\left(\frac{2}{5}\right)^{17}}$$

$$\frac{\left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{10}}{\left(\frac{1}{5}\right)^{16}}$$

$$\frac{\left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-2}}{\left(\frac{2}{3}\right)^2 \cdot \left(\frac{2}{3}\right)}$$
$$\left(\frac{2}{3}\right)^{-18}$$