



Simplificación de exponentes de fracciones
(división)

Nombre: _____

Fecha: _____ Puntuación: _____

$$\frac{\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{-10} \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-1}}{\left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^8}$$

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

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

$$\frac{\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^{-8} \cdot \left(\frac{3}{5}\right)^{11}}{\left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^7}$$

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

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

$$\frac{\left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-7} \cdot \left(\frac{2}{5}\right)^{-8}}{\left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^2}$$

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

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

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

$$\frac{\left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^{-10}}{\left(\frac{3}{8}\right)^{11}}$$

$$\frac{\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-2}}{\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^8}$$

$$\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^{11}$$

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

$$\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^{-2}$$



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$$\frac{\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{-10} \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-1}}{\left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^8}$$
$$\left(\frac{1}{9}\right)^{-1}$$

$$\frac{\left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^5}{\left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^7}$$
$$\left(\frac{1}{2}\right)^{12}$$

$$\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^{10}$$
$$\left(\frac{1}{2}\right)^{17}$$

$$\frac{\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^{-8} \cdot \left(\frac{3}{5}\right)^{11}}{\left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^7}$$
$$\left(\frac{3}{5}\right)^{-5}$$

$$\frac{\left(\frac{3}{5}\right)^7 \cdot \left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^9 \cdot \left(\frac{3}{5}\right)^{-4}}{\left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^{-1}}$$
$$\left(\frac{3}{5}\right)^{13}$$

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

$$\frac{\left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-7} \cdot \left(\frac{2}{5}\right)^{-8}}{\left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^2}$$
$$\left(\frac{2}{5}\right)^{-19}$$

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

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

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

$$\frac{\left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^{-10}}{\left(\frac{3}{8}\right)^{11}}$$
$$\left(\frac{3}{8}\right)^{-36}$$

$$\frac{\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-2}}{\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^8}$$
$$\left(\frac{1}{2}\right)^0$$

$$\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^{11}$$
$$\left(\frac{1}{4}\right)^{-5}$$

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

$$\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^{-2}$$
$$\left(\frac{4}{7}\right)^{14}$$