



Simplificación de exponentes de fracciones  
(división)

Nombre: \_\_\_\_\_

Fecha: \_\_\_\_\_ Puntuación: \_\_\_\_\_

$$\frac{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-1}}{\left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^8}$$

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

$$\frac{\left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{11}}{\left(\frac{2}{5}\right)^2 \cdot \left(\frac{2}{5}\right)^{-10}}$$

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

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

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

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

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

$$\frac{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^4}$$

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

$$\frac{\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^9}{\left(\frac{3}{8}\right)^9}$$

$$\frac{\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^2}{\left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-4}}$$

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

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

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



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$$\frac{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-1}}{\left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^8} \left(\frac{1}{3}\right)^{-6}$$

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

$$\frac{\left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{11}}{\left(\frac{2}{5}\right)^2 \cdot \left(\frac{2}{5}\right)^{-10}} \left(\frac{2}{5}\right)^{11}$$

$$\frac{\left(\frac{1}{7}\right)^{-2} \cdot \left(\frac{1}{7}\right)^{-4} \cdot \left(\frac{1}{7}\right)^{-4}}{\left(\frac{1}{7}\right)} \left(\frac{1}{7}\right)^{-11}$$

$$\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^8 \left(\frac{1}{3}\right)^{16}$$

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

$$\frac{\left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^{-1}}{\left(\frac{1}{4}\right)^{-10}} \left(\frac{1}{4}\right)^{20}$$

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

$$\frac{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^4} \left(\frac{1}{5}\right)^{-11}$$

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

$$\frac{\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^9}{\left(\frac{3}{8}\right)^9} \left(\frac{3}{8}\right)$$

$$\frac{\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^2}{\left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-4}} \left(\frac{4}{7}\right)^{19}$$

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

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

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