



Simplificación de exponentes de fracciones
(división)

Nombre: _____

Fecha: _____ Puntuación: _____

$$\frac{\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^7}$$

$$\frac{\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-5}}{\left(\frac{1}{8}\right)^{-7}}$$

$$\frac{\left(\frac{2}{9}\right)^6 \cdot \left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^{10} \cdot \left(\frac{2}{9}\right)^4}{\left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{10}}$$

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

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

$$\left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{11}$$

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

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

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

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

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

$$\left(\frac{1}{4}\right)^{-8} \cdot \left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^9$$

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

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

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



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$$\frac{\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-3} \cdot \left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^7} \quad \left(\frac{1}{5}\right)^7$$

$$\frac{\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-5}}{\left(\frac{1}{8}\right)^{-7}} \quad \left(\frac{1}{8}\right)^8$$

$$\frac{\left(\frac{2}{9}\right)^6 \cdot \left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^{10} \cdot \left(\frac{2}{9}\right)^4}{\left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{10}} \quad \left(\frac{2}{9}\right)^{23}$$

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

$$\frac{\left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^{-9}}{\left(\frac{1}{6}\right)^{-10}} \quad \left(\frac{1}{6}\right)^{10}$$

$$\left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{11} \quad \left(\frac{1}{2}\right)^{24}$$

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

$$\frac{\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{-8} \cdot \left(\frac{3}{5}\right) \cdot \left(\frac{3}{5}\right)^{-10}}{\left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^3} \quad \left(\frac{3}{5}\right)^{-2}$$

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

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

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

$$\left(\frac{1}{4}\right)^{-8} \cdot \left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^9 \quad \left(\frac{1}{4}\right)^{-6}$$

$$\left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^{10} \quad \left(\frac{4}{5}\right)^{21}$$

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

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