



Simplificación de exponentes de fracciones
(división)

Nombre: _____

Fecha: _____ Puntuación: _____

$$\frac{\left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{-4}}{\left(\frac{2}{5}\right)^{-3}}$$

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

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

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

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

$$\frac{\left(\frac{4}{9}\right) \cdot \left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^{-7}}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-3}}$$

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-2}}{\left(\frac{4}{7}\right) \cdot \left(\frac{4}{7}\right)^{-9}}$$

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

$$\frac{\left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^8}{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)}$$

$$\frac{\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^4}{\left(\frac{2}{7}\right)^9}$$

$$\frac{\left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^{-9}}{\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^6}$$

$$\left(\frac{1}{7}\right)^{-6} \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^{-2}$$

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

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

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



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$$\frac{\left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{-4}}{\left(\frac{2}{5}\right)^{-3}}$$
$$\left(\frac{2}{5}\right)^9$$

$$\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^3 \cdot \left(\frac{3}{8}\right)^2$$
$$\left(\frac{3}{8}\right)^{13}$$

$$\left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{11}$$
$$\left(\frac{1}{2}\right)^9$$

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

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

$$\frac{\left(\frac{4}{9}\right) \cdot \left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^{-7}}{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-3}}$$
$$\left(\frac{4}{9}\right)^8$$

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-2}}{\left(\frac{4}{7}\right) \cdot \left(\frac{4}{7}\right)^{-9}}$$
$$\left(\frac{4}{7}\right)^6$$

$$\frac{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^7}{\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8}}$$
$$\left(\frac{1}{3}\right)^{24}$$

$$\frac{\left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^{-5} \cdot \left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^8}{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)}$$
$$\left(\frac{1}{7}\right)^{-11}$$

$$\frac{\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^4}{\left(\frac{2}{7}\right)^9}$$
$$\left(\frac{2}{7}\right)^{-4}$$

$$\frac{\left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^{-9}}{\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^6}$$
$$\left(\frac{1}{9}\right)^{-18}$$

$$\left(\frac{1}{7}\right)^{-6} \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^{-2}$$
$$\left(\frac{1}{7}\right)^{-17}$$

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

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

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