



Simplification des exposants de fractions
(multiplication)

Nom: _____

Date: _____ Note: _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

$$\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^5$$
$$\left(\frac{1}{3}\right)^{22}$$

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

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

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

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

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

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

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

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

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

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

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

$$\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-7}$$
$$\left(\frac{1}{3}\right)^{-16}$$

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