



Simplification des exposants de fractions
(multiplication)

Nom: _____

Date: _____ Note: _____

$$\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^{-6}$$

$$\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^5 \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-4}$$

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

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

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

$$\left(\frac{1}{5}\right) \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^{11}$$

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

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

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

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

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

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

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

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

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



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$$\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^{-6}$$
$$\left(\frac{2}{3}\right)^9$$

$$\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^5 \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-4}$$
$$\left(\frac{2}{5}\right)^{16}$$

$$\left(\frac{3}{5}\right)^{-5} \cdot \left(\frac{3}{5}\right)^6 \cdot \left(\frac{3}{5}\right)^3$$
$$\left(\frac{3}{5}\right)^4$$

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

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

$$\left(\frac{1}{5}\right) \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^{11}$$
$$\left(\frac{1}{5}\right)^{21}$$

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

$$\left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^{-9}$$
$$\left(\frac{1}{5}\right)^{-25}$$

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

$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^4$$
$$\left(\frac{1}{6}\right)^9$$

$$\left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-8}$$
$$\left(\frac{2}{9}\right)^3$$

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

$$\left(\frac{2}{5}\right)^{-3} \cdot \left(\frac{2}{5}\right)^{10}$$
$$\left(\frac{2}{5}\right)^7$$

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

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