



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^7$$

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



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

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

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

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

$$\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{-6}$$
$$\left(\frac{1}{9}\right)^5$$

$$\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^{-3}$$
$$\left(\frac{3}{7}\right)^{-12}$$

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

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

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

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

$$\left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^9$$
$$\left(\frac{4}{5}\right)^{18}$$

$$\left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^{-1}$$
$$\left(\frac{2}{9}\right)^3$$

$$\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^{-3}$$
$$\left(\frac{1}{3}\right)^{14}$$

$$\left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^7$$
$$\left(\frac{1}{5}\right)^{16}$$

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