



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

$$\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^{-10}$$

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

$$\left(\frac{3}{7}\right)^5 \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-4}$$

$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{-8}$$

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

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

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

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

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

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

$$\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^{10}$$

$$\left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-4}$$

$$\left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^{-3}$$

$$\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-8}$$

$$\left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^6$$



Simplifying Fraction Exponent Expressions (Multiplication)

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$$\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^{-10}$$
$$\left(\frac{4}{9}\right)^{-3}$$

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)$$
$$\left(\frac{1}{9}\right)^{15}$$

$$\left(\frac{3}{7}\right)^5 \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-4}$$
$$\left(\frac{3}{7}\right)^{-7}$$

$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{-8}$$
$$\left(\frac{1}{6}\right)^4$$

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

$$\left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^9$$
$$\left(\frac{1}{2}\right)^{15}$$

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

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

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

$$\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^4$$
$$\left(\frac{1}{2}\right)^5$$

$$\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^{10}$$
$$\left(\frac{1}{9}\right)^{13}$$

$$\left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-4}$$
$$\left(\frac{2}{7}\right)^6$$

$$\left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^{-7} \cdot \left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^{-3}$$
$$\left(\frac{1}{7}\right)^3$$

$$\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-8}$$
$$\left(\frac{1}{3}\right)^{-25}$$

$$\left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^6$$
$$\left(\frac{1}{5}\right)^{-1}$$