



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

$$\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{-8}$$

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

$$\left(\frac{1}{6}\right)^{-8} \cdot \left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-10}$$

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

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

$$\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^6$$

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

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^3$$

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

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

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

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

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

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

$$\left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^6$$



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$$\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{-8}$$
$$\left(\frac{1}{5}\right)^{-18}$$

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

$$\left(\frac{1}{6}\right)^{-8} \cdot \left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-10}$$
$$\left(\frac{1}{6}\right)^{-13}$$

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

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^6$$
$$\left(\frac{1}{2}\right)^{-13}$$

$$\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^6$$
$$\left(\frac{1}{9}\right)^7$$

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

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^3$$
$$\left(\frac{1}{2}\right)^{-3}$$

$$\left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^8 \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^6$$
$$\left(\frac{4}{5}\right)^{10}$$

$$\left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^9$$
$$\left(\frac{3}{8}\right)^{12}$$

$$\left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^8$$
$$\left(\frac{2}{9}\right)^{16}$$

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^4$$
$$\left(\frac{1}{2}\right)^{29}$$

$$\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^5$$
$$\left(\frac{2}{5}\right)^{15}$$

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

$$\left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^6$$
$$\left(\frac{3}{8}\right)^{10}$$