



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

$$\left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^{-10}$$

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^{-5}$$

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

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

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

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

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

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

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

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

$$\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^{-5}$$

$$\left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-3}$$

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

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



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$$\left(\frac{1}{9}\right)^{-5} \cdot \left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^{-6}$$
$$\left(\frac{1}{9}\right)^{-27}$$

$$\left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^{-10}$$
$$\left(\frac{1}{7}\right)^{-19}$$

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^{-5}$$
$$\left(\frac{1}{2}\right)^{-5}$$

$$\left(\frac{3}{8}\right)^{-2} \cdot \left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^{10}$$
$$\left(\frac{3}{8}\right)^{16}$$

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

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

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

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

$$\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^4$$
$$\left(\frac{4}{7}\right)^9$$

$$\left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^8$$
$$\left(\frac{2}{9}\right)^3$$

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

$$\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^{-5}$$
$$\left(\frac{1}{8}\right)^{13}$$

$$\left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-3}$$
$$\left(\frac{1}{2}\right)^5$$

$$\left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^{-6}$$
$$\left(\frac{1}{7}\right)^{10}$$

$$\left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^{-10}$$
$$\left(\frac{2}{9}\right)^{-8}$$