



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

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

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

$$\left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^{-6} \cdot \left(\frac{1}{2}\right)^{-3}$$

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

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

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

$$\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^3$$

$$\left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-3}$$

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

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

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

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

$$\left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^{10}$$

$$\left(\frac{4}{5}\right)^{-3} \cdot \left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^3$$



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$$\left(\frac{1}{2}\right)^{-1} \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-3}$$
$$\left(\frac{1}{2}\right)^{-8}$$

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

$$\left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-5}$$
$$\left(\frac{2}{9}\right)^{-12}$$

$$\left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^{-6} \cdot \left(\frac{1}{2}\right)^{-3}$$
$$\left(\frac{1}{2}\right)^{-7}$$

$$\left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-1}$$
$$\left(\frac{1}{3}\right)^{-14}$$

$$\left(\frac{4}{5}\right)^5 \cdot \left(\frac{4}{5}\right)^9$$
$$\left(\frac{4}{5}\right)^{14}$$

$$\left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^2$$
$$\left(\frac{3}{5}\right)^6$$

$$\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^3$$
$$\left(\frac{1}{3}\right)^{13}$$

$$\left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-3}$$
$$\left(\frac{3}{8}\right)^{-7}$$

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

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

$$\left(\frac{1}{5}\right)^{-1} \cdot \left(\frac{1}{5}\right)^7 \cdot \left(\frac{1}{5}\right)^2$$
$$\left(\frac{1}{5}\right)^8$$

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

$$\left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^{10}$$
$$\left(\frac{1}{4}\right)^0$$

$$\left(\frac{4}{5}\right)^{-3} \cdot \left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^3$$
$$\left(\frac{4}{5}\right)^{10}$$