



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

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

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

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

$$\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^{11}$$

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

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

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

$$\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-2}$$

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

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

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

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{10}$$

$$\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{-10} \cdot \left(\frac{1}{9}\right)^{-2}$$

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



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$$\left(\frac{3}{7}\right)^{-10} \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-8}$$
$$\left(\frac{3}{7}\right)^{-26}$$

$$\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^8$$
$$\left(\frac{1}{5}\right)^{16}$$

$$\left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^6$$
$$\left(\frac{1}{2}\right)^{11}$$

$$\left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^3$$
$$\left(\frac{2}{7}\right)^0$$

$$\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^{11}$$
$$\left(\frac{1}{8}\right)^{11}$$

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

$$\left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right)^{-10} \cdot \left(\frac{1}{8}\right)^{-5}$$
$$\left(\frac{1}{8}\right)^{-14}$$

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

$$\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-2}$$
$$\left(\frac{4}{7}\right)^{-11}$$

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

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

$$\left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^2$$
$$\left(\frac{1}{5}\right)^{13}$$

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{10}$$
$$\left(\frac{1}{2}\right)^{14}$$

$$\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{-10} \cdot \left(\frac{1}{9}\right)^{-2}$$
$$\left(\frac{1}{9}\right)^{10}$$

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