



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

$$\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^3$$

$$\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-9}$$

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

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

$$\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^7$$

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

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

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-4}$$

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

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

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

$$\left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right) \cdot \left(\frac{2}{7}\right)^9$$

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

$$\left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)$$



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

$$\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^3$$
$$\left(\frac{2}{7}\right)^8$$

$$\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-9}$$
$$\left(\frac{4}{7}\right)^{-17}$$

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

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

$$\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^7$$
$$\left(\frac{2}{5}\right)^{21}$$

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

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

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-4}$$
$$\left(\frac{1}{2}\right)^{-6}$$

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

$$\left(\frac{2}{3}\right)^{-8} \cdot \left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-7}$$
$$\left(\frac{2}{3}\right)^{-13}$$

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

$$\left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right) \cdot \left(\frac{2}{7}\right)^9$$
$$\left(\frac{2}{7}\right)^2$$

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

$$\left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)$$
$$\left(\frac{2}{7}\right)^{-14}$$