



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

$$\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-7}$$

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

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

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

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

$$\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-10}$$

$$\left(\frac{2}{7}\right)^{-6} \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-8}$$

$$\left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-10} \cdot \left(\frac{1}{6}\right)^{11}$$

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

$$\left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^9$$

$$\left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-2}$$

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

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

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



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

$$\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-7}$$
$$\left(\frac{1}{3}\right)^{-17}$$

$$\left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-6}$$
$$\left(\frac{4}{5}\right)^{-13}$$

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

$$\left(\frac{4}{9}\right)^{-7} \cdot \left(\frac{4}{9}\right)^{-8}$$
$$\left(\frac{4}{9}\right)^{-15}$$

$$\left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^{-2}$$
$$\left(\frac{1}{6}\right)^{-16}$$

$$\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-10}$$
$$\left(\frac{1}{2}\right)^7$$

$$\left(\frac{2}{7}\right)^{-6} \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-8}$$
$$\left(\frac{2}{7}\right)^{-9}$$

$$\left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-10} \cdot \left(\frac{1}{6}\right)^{11}$$
$$\left(\frac{1}{6}\right)^9$$

$$\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^{-4}$$
$$\left(\frac{1}{8}\right)^0$$

$$\left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^9$$
$$\left(\frac{2}{3}\right)^6$$

$$\left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-2}$$
$$\left(\frac{4}{7}\right)^{-7}$$

$$\left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^{-4}$$
$$\left(\frac{1}{2}\right)^{-11}$$

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

$$\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^8$$
$$\left(\frac{1}{4}\right)^{19}$$