



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

$$\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^{-1} \cdot \left(\frac{1}{4}\right)^{-3}$$

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

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

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

$$\left(\frac{1}{6}\right)^{-5} \cdot \left(\frac{1}{6}\right)^{10}$$

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

$$\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^5$$

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

$$\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{10}$$

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

$$\left(\frac{2}{7}\right)^9 \cdot \left(\frac{2}{7}\right)^3 \cdot \left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^{-2}$$

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

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^{-4}$$

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



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$$\left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^3$$
$$\left(\frac{4}{9}\right)^5$$

$$\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^{-1} \cdot \left(\frac{1}{4}\right)^{-3}$$
$$\left(\frac{1}{4}\right)^{-3}$$

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

$$\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^8$$
$$\left(\frac{2}{3}\right)^{17}$$

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

$$\left(\frac{1}{6}\right)^{-5} \cdot \left(\frac{1}{6}\right)^{10}$$
$$\left(\frac{1}{6}\right)^5$$

$$\left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^{10}$$
$$\left(\frac{1}{5}\right)^{20}$$

$$\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^5$$
$$\left(\frac{1}{3}\right)^{-8}$$

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

$$\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{10}$$
$$\left(\frac{1}{3}\right)^{14}$$

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

$$\left(\frac{2}{7}\right)^9 \cdot \left(\frac{2}{7}\right)^3 \cdot \left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^{-2}$$
$$\left(\frac{2}{7}\right)^0$$

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

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^{-4}$$
$$\left(\frac{1}{7}\right)^{-15}$$

$$\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)$$
$$\left(\frac{2}{5}\right)^0$$