



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

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

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

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

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

$$\left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^{-2} \cdot \left(\frac{4}{9}\right)^6$$

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

$$\left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^6$$

$$\left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^{-5} \cdot \left(\frac{3}{7}\right)^{-6} \cdot \left(\frac{3}{7}\right)^{-8}$$

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

$$\left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{-6}$$

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

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

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

$$\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5$$

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



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$$\left(\frac{2}{7}\right)^9 \cdot \left(\frac{2}{7}\right)^9 \cdot \left(\frac{2}{7}\right)^4$$
$$\left(\frac{2}{7}\right)^{22}$$

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

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

$$\left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^3$$
$$\left(\frac{3}{5}\right)^{-4}$$

$$\left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^{-2} \cdot \left(\frac{4}{9}\right)^6$$
$$\left(\frac{4}{9}\right)^{12}$$

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

$$\left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^6$$
$$\left(\frac{1}{7}\right)^{20}$$

$$\left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^{-5} \cdot \left(\frac{3}{7}\right)^{-6} \cdot \left(\frac{3}{7}\right)^{-8}$$
$$\left(\frac{3}{7}\right)^{-15}$$

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

$$\left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{-6}$$
$$\left(\frac{4}{7}\right)^{-15}$$

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

$$\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{10}$$
$$\left(\frac{1}{8}\right)^{13}$$

$$\left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-9}$$
$$\left(\frac{4}{7}\right)^{-16}$$

$$\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^5$$
$$\left(\frac{4}{7}\right)^{14}$$

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