



Simplifying Fraction Exponent Expressions
(Multiplication)

Name: _____

Date: _____ Score: _____

$$\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^3 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{11}$$

$$\left(\frac{3}{8}\right)^9 \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-7}$$

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

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^7$$

$$\left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^8$$

$$\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^{-1}$$

$$\left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{-5}$$

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

$$\left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^2 \cdot \left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{-2}$$

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

$$\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-10} \cdot \left(\frac{2}{5}\right)^{-7} \cdot \left(\frac{2}{5}\right)^2$$

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

$$\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^{-5}$$

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

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



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$$\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^3 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{11}$$
$$\left(\frac{1}{9}\right)^{23}$$

$$\left(\frac{3}{8}\right)^9 \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-7}$$
$$\left(\frac{3}{8}\right)^{19}$$

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

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^7$$
$$\left(\frac{1}{9}\right)^6$$

$$\left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^8$$
$$\left(\frac{2}{3}\right)^{10}$$

$$\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^{-1}$$
$$\left(\frac{4}{7}\right)^{-7}$$

$$\left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{-5}$$
$$\left(\frac{1}{4}\right)^{-18}$$

$$\left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^8$$
$$\left(\frac{1}{8}\right)^{19}$$

$$\left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^2 \cdot \left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{-2}$$
$$\left(\frac{2}{7}\right)^{-4}$$

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

$$\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^{-10} \cdot \left(\frac{2}{5}\right)^{-7} \cdot \left(\frac{2}{5}\right)^2$$
$$\left(\frac{2}{5}\right)^{-6}$$

$$\left(\frac{2}{9}\right)^{-9} \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^{-5}$$
$$\left(\frac{2}{9}\right)^{-21}$$

$$\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^8 \cdot \left(\frac{1}{4}\right)^{-5}$$
$$\left(\frac{1}{4}\right)^9$$

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

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