



## Simplifying Fraction Exponent Expressions (Multiplication)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

$$\left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^8$$

$$\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^8$$

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

$$\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{-5}$$

$$\left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^{-7}$$

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

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{11}$$

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

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

$$\left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^5$$

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

$$\left(\frac{2}{9}\right)^9 \cdot \left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^7 \cdot \left(\frac{2}{9}\right)^8$$

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

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

$$\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^{-7}$$



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$$\left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^8$$
$$\left(\frac{4}{7}\right)^{10}$$

$$\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^8$$
$$\left(\frac{1}{8}\right)^{14}$$

$$\left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-7}$$
$$\left(\frac{4}{7}\right)^8$$

$$\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{-5}$$
$$\left(\frac{4}{9}\right)^{-3}$$

$$\left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^{-7}$$
$$\left(\frac{4}{5}\right)^8$$

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

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{11}$$
$$\left(\frac{1}{2}\right)^{42}$$

$$\left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^3 \cdot \left(\frac{2}{7}\right)^{-2}$$
$$\left(\frac{2}{7}\right)^{-10}$$

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

$$\left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^5$$
$$\left(\frac{4}{9}\right)^{-12}$$

$$\left(\frac{1}{8}\right)^{-8} \cdot \left(\frac{1}{8}\right)^{-7}$$
$$\left(\frac{1}{8}\right)^{-15}$$

$$\left(\frac{2}{9}\right)^9 \cdot \left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^7 \cdot \left(\frac{2}{9}\right)^8$$
$$\left(\frac{2}{9}\right)^{28}$$

$$\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{10}$$
$$\left(\frac{1}{2}\right)^{19}$$

$$\left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^3$$
$$\left(\frac{1}{9}\right)^{12}$$

$$\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^{-7}$$
$$\left(\frac{4}{9}\right)^{14}$$