



## Simplifying Fraction Exponent Expressions (Multiplication)

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

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

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

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

$$\left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right) \cdot \left(\frac{3}{5}\right)^{10} \cdot \left(\frac{3}{5}\right)^2$$

$$\left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^{11}$$

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

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

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

$$\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^6$$

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

$$\left(\frac{2}{5}\right)^7 \cdot \left(\frac{2}{5}\right)^{11}$$

$$\left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-7}$$

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

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

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

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^4$$



## Simplifying Fraction Exponent Expressions (Multiplication)

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

$$\left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^{-8}$$
$$\left(\frac{3}{8}\right)^{-13}$$

$$\left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right) \cdot \left(\frac{3}{5}\right)^{10} \cdot \left(\frac{3}{5}\right)^2$$
$$\left(\frac{3}{5}\right)^{10}$$

$$\left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^{11}$$
$$\left(\frac{1}{9}\right)^4$$

$$\left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^{-1} \cdot \left(\frac{3}{7}\right)^7$$
$$\left(\frac{3}{7}\right)^{16}$$

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

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

$$\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^6$$
$$\left(\frac{1}{7}\right)^{11}$$

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

$$\left(\frac{2}{5}\right)^7 \cdot \left(\frac{2}{5}\right)^{11}$$
$$\left(\frac{2}{5}\right)^{18}$$

$$\left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{-9} \cdot \left(\frac{1}{5}\right)^{-7}$$
$$\left(\frac{1}{5}\right)^{-12}$$

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

$$\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^6$$
$$\left(\frac{1}{5}\right)^2$$

$$\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^6$$
$$\left(\frac{1}{3}\right)^{14}$$

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^4$$
$$\left(\frac{1}{2}\right)^{11}$$