



## Simplifying Fraction Exponent Expressions (Multiplication)

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

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

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

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

$$\left(\frac{1}{8}\right)^{-4} \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-5}$$

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

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

$$\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8}$$

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

$$\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^5$$

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

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

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

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

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

$$\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-3} \cdot \left(\frac{2}{9}\right)^8$$

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^7 \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-8}$$



## Simplifying Fraction Exponent Expressions (Multiplication)

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

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-4}$$
$$\left(\frac{1}{7}\right)^{-14}$$

$$\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^3$$
$$\left(\frac{1}{3}\right)^7$$

$$\left(\frac{1}{8}\right)^{-4} \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-5}$$
$$\left(\frac{1}{8}\right)^{-7}$$

$$\left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{10}$$
$$\left(\frac{4}{7}\right)^{-13}$$

$$\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^4$$
$$\left(\frac{1}{4}\right)^{-11}$$

$$\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8}$$
$$\left(\frac{1}{3}\right)^{-5}$$

$$\left(\frac{1}{4}\right)^{-9} \cdot \left(\frac{1}{4}\right)^{-6}$$
$$\left(\frac{1}{4}\right)^{-15}$$

$$\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^5$$
$$\left(\frac{4}{7}\right)^{13}$$

$$\left(\frac{3}{7}\right)^{-10} \cdot \left(\frac{3}{7}\right) \cdot \left(\frac{3}{7}\right)^{-3}$$
$$\left(\frac{3}{7}\right)^{-12}$$

$$\left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right) \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^3$$
$$\left(\frac{2}{9}\right)^7$$

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)$$
$$\left(\frac{1}{2}\right)^{19}$$

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

$$\left(\frac{2}{9}\right)^7 \cdot \left(\frac{2}{9}\right)^6$$
$$\left(\frac{2}{9}\right)^{13}$$

$$\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-3} \cdot \left(\frac{2}{9}\right)^8$$
$$\left(\frac{2}{9}\right)^{-1}$$

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^7 \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-8}$$
$$\left(\frac{3}{7}\right)^2$$