



Simplifying Fraction Exponent Expressions (Multiplication)

Name: _____

Date: _____ Score: _____

$$\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^8$$

$$\left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-10} \cdot \left(\frac{2}{5}\right)^{-6}$$

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

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

$$\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^{-7}$$

$$\left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^{-8}$$

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

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

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

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

$$\left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^8$$

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

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

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

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