

Simplifying Fraction Exponent Expressions (Division)

Name: _____

Date: _____ Score: _____

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

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

$$\frac{\left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^{11} \cdot \left(\frac{2}{7}\right)^5}{\left(\frac{2}{7}\right)^{-4}}$$

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

$$\frac{\left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^9}{\left(\frac{4}{7}\right)^7}$$

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

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

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

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

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

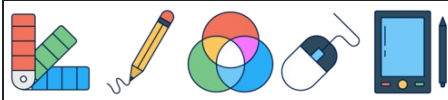
$$\frac{\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^{-6} \cdot \left(\frac{3}{7}\right)^{-4}}{\left(\frac{3}{7}\right)^{-4} \cdot \left(\frac{3}{7}\right)}$$

$$\frac{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^7}{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-3}}$$

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

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

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



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

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

$$\frac{\left(\frac{2}{7}\right)^{-10} \cdot \left(\frac{2}{7}\right)^{11} \cdot \left(\frac{2}{7}\right)^5}{\left(\frac{2}{7}\right)^{-4}} \left(\frac{2}{7}\right)^{10}$$

$$\frac{\left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-10}}{\left(\frac{4}{7}\right)^{-12}}$$

$$\frac{\left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^9}{\left(\frac{4}{7}\right)^7} \left(\frac{4}{7}\right)^{11}$$

$$\frac{\left(\frac{1}{5}\right)^7 \cdot \left(\frac{1}{5}\right)^{-1} \cdot \left(\frac{1}{5}\right)^{-3}}{\left(\frac{1}{5}\right)^{-7}} \left(\frac{1}{5}\right)^{10}$$

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

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

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

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

$$\frac{\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^{-6} \cdot \left(\frac{3}{7}\right)^{-4}}{\left(\frac{3}{7}\right)^{-4} \cdot \left(\frac{3}{7}\right)} \left(\frac{3}{7}\right)^8$$

$$\frac{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^7}{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-3}} \left(\frac{1}{3}\right)^{12}$$

$$\frac{\left(\frac{3}{8}\right)^3 \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^{11}}{\left(\frac{3}{8}\right)^9}$$

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

$$\frac{\left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)}{\left(\frac{4}{9}\right)^{-7}} \left(\frac{4}{9}\right)^{23}$$