



Simplifying Fraction Exponent Expressions
(Division)

Name: _____

Date: _____ Score: _____

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

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

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

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

$$\left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^{-3}$$

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

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

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

$$\frac{\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^{11}}{\left(\frac{1}{2}\right)^{10}}$$

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

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

$$\frac{\left(\frac{2}{5}\right)^7 \cdot \left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)}{\left(\frac{2}{5}\right)^{-9}}$$

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

$$\frac{\left(\frac{1}{8}\right)^9 \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-2}}{\left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^3}$$

$$\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-7}}{\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-2}}$$



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$$\frac{\left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{11}}{\left(\frac{4}{5}\right)^{22}}$$

$$\frac{\left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^4}{\left(\frac{4}{5}\right)^6}$$

$$\frac{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{-6}}{\left(\frac{4}{7}\right)^{-15}}$$

$$\frac{\left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^{-5} \cdot \left(\frac{2}{7}\right)^3}{\left(\frac{2}{7}\right)^3} \left(\frac{2}{7}\right)^{-9}$$

$$\frac{\left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^{-3}}{\left(\frac{2}{5}\right)^2}$$

$$\frac{\left(\frac{1}{8}\right)^{-8} \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-8}}{\left(\frac{1}{8}\right)^{-6}} \left(\frac{1}{8}\right)^{-7}$$

$$\frac{\left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)}{\left(\frac{4}{7}\right)^{-1}} \left(\frac{4}{7}\right)^9$$

$$\frac{\left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^{-7}}{\left(\frac{4}{9}\right)^{-13}}$$

$$\frac{\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^{11}}{\left(\frac{1}{2}\right)^{10}} \left(\frac{1}{2}\right)^{-5}$$

$$\frac{\left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-4}}{\left(\frac{4}{5}\right)^{-19}}$$

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

$$\frac{\left(\frac{2}{5}\right)^7 \cdot \left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)}{\left(\frac{2}{5}\right)^{-9}} \left(\frac{2}{5}\right)^{28}$$

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

$$\frac{\left(\frac{1}{8}\right)^9 \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-2}}{\left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^3} \left(\frac{1}{8}\right)$$

$$\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-7}}{\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-2}} \left(\frac{1}{3}\right)^{-24}$$