



Simplifying Fraction Exponent Expressions
(Division)

Name: _____

Date: _____ Score: _____

$$\left(\frac{3}{5}\right)^{10} \cdot \left(\frac{3}{5}\right)^2 \cdot \left(\frac{3}{5}\right)^4$$

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^2 \cdot \left(\frac{4}{7}\right)^3}{\left(\frac{4}{7}\right)^{-6}}$$

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

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

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

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

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

$$\frac{\left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^5}{\left(\frac{2}{9}\right)^{-6}}$$

$$\frac{\left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^{-6}}{\left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right)^7}$$

$$\frac{\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right)^{-9} \cdot \left(\frac{4}{9}\right)^{-5}}{\left(\frac{4}{9}\right)^{-2}}$$

$$\frac{\left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^{-2}}{\left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^2}$$

$$\left(\frac{3}{5}\right)^{-5} \cdot \left(\frac{3}{5}\right)^6 \cdot \left(\frac{3}{5}\right)^{11}$$

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

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

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



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$$\frac{(\frac{3}{5})^{10} \cdot (\frac{3}{5})^2 \cdot (\frac{3}{5})^4}{(\frac{3}{5})^{16}}$$

$$\frac{(\frac{4}{7})^{-1} \cdot (\frac{4}{7})^2 \cdot (\frac{4}{7})^3}{(\frac{4}{7})^{-6}}$$
$$(\frac{4}{7})^{10}$$

$$\frac{(\frac{1}{9})^{-3} \cdot (\frac{1}{9})^{-3} \cdot (\frac{1}{9})^6 \cdot (\frac{1}{9})^3}{(\frac{1}{9})^2 \cdot (\frac{1}{9})^6}$$
$$(\frac{1}{9})^{-5}$$

$$\frac{(\frac{2}{7})^{-2} \cdot (\frac{2}{7})^8 \cdot (\frac{2}{7})^7}{(\frac{2}{7})^2}$$
$$(\frac{2}{7})^{12}$$

$$\frac{(\frac{3}{8})^{-9} \cdot (\frac{3}{8})^{-9} \cdot (\frac{3}{8})^{-9}}{(\frac{3}{8})^{-27}}$$

$$\frac{(\frac{1}{4})^8 \cdot (\frac{1}{4})^8 \cdot (\frac{1}{4})^{-4}}{(\frac{1}{4})^{12}}$$

$$\frac{(\frac{4}{9})^{-3} \cdot (\frac{4}{9})^{-1} \cdot (\frac{4}{9})^{-9}}{(\frac{4}{9})^{-13}}$$

$$\frac{(\frac{2}{9})^8 \cdot (\frac{2}{9})^3 \cdot (\frac{2}{9})^5}{(\frac{2}{9})^{-6}}$$
$$(\frac{2}{9})^{22}$$

$$\frac{(\frac{1}{8})^6 \cdot (\frac{1}{8})^{-5} \cdot (\frac{1}{8})^8 \cdot (\frac{1}{8})^{-6}}{(\frac{1}{8}) \cdot (\frac{1}{8})^7}$$
$$(\frac{1}{8})^{-5}$$

$$\frac{(\frac{4}{9})^6 \cdot (\frac{4}{9})^{-9} \cdot (\frac{4}{9})^{-5}}{(\frac{4}{9})^{-2}}$$
$$(\frac{4}{9})^{-6}$$

$$\frac{(\frac{2}{9})^{-10} \cdot (\frac{2}{9})^{-2} \cdot (\frac{2}{9})^{-8} \cdot (\frac{2}{9})^{-2}}{(\frac{2}{9})^3 \cdot (\frac{2}{9})^2}$$
$$(\frac{2}{9})^{-27}$$

$$\frac{(\frac{3}{5})^{-5} \cdot (\frac{3}{5})^6 \cdot (\frac{3}{5})^{11}}{(\frac{3}{5})^{12}}$$

$$\frac{(\frac{2}{7})^2 \cdot (\frac{2}{7})^3 \cdot (\frac{2}{7})^{-1}}{(\frac{2}{7})^4}$$

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

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