



Simplifying Fraction Exponent Expressions
(Division)

Name: _____

Date: _____ Score: _____

$$\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^5 \cdot \left(\frac{4}{9}\right)^{-6}$$

$$\frac{\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^{-4}}{\left(\frac{1}{2}\right)^6}$$

$$\frac{\left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^6}{\left(\frac{1}{9}\right)^{11}}$$

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

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

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

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

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

$$\frac{\left(\frac{3}{7}\right)^{-10} \cdot \left(\frac{3}{7}\right)^5 \cdot \left(\frac{3}{7}\right)^2}{\left(\frac{3}{7}\right)^4}$$

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

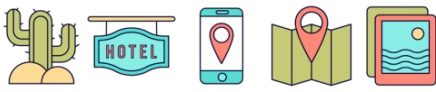
$$\frac{\left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^{-7}}{\left(\frac{3}{5}\right)^{-8}}$$

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

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

$$\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-9}$$

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



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$$\frac{(\frac{4}{9})^7 \cdot (\frac{4}{9})^5 \cdot (\frac{4}{9})^{-6}}{(\frac{4}{9})^6}$$

$$\frac{(\frac{1}{2})^8 \cdot (\frac{1}{2})^{-3} \cdot (\frac{1}{2})^{-4}}{(\frac{1}{2})^6}$$
$$(\frac{1}{2})^{-5}$$

$$\frac{(\frac{1}{9})^{-8} \cdot (\frac{1}{9})^8 \cdot (\frac{1}{9})^6}{(\frac{1}{9})^{11}}$$
$$(\frac{1}{9})^{-5}$$

$$\frac{(\frac{3}{5})^6 \cdot (\frac{3}{5})^3 \cdot (\frac{3}{5})^9}{(\frac{3}{5})^{18}}$$

$$\frac{(\frac{3}{8})^4 \cdot (\frac{3}{8})^{11} \cdot (\frac{3}{8})^7}{(\frac{3}{8})^{-3}}$$
$$(\frac{3}{8})^{25}$$

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

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

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

$$\frac{(\frac{3}{7})^{-10} \cdot (\frac{3}{7})^5 \cdot (\frac{3}{7})^2}{(\frac{3}{7})^4}$$
$$(\frac{3}{7})^{-7}$$

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

$$\frac{(\frac{3}{5})^{-1} \cdot (\frac{3}{5})^{-6} \cdot (\frac{3}{5})^{-7}}{(\frac{3}{5})^{-8}}$$
$$(\frac{3}{5})^{-6}$$

$$\frac{(\frac{1}{3})^8 \cdot (\frac{1}{3})^{-2} \cdot (\frac{1}{3})^{-7}}{(\frac{1}{3})^2}$$
$$(\frac{1}{3})^{-3}$$

$$\frac{(\frac{2}{7})^{-8} \cdot (\frac{2}{7})^9 \cdot (\frac{2}{7})^{-7}}{(\frac{2}{7})^{-6}}$$

$$\frac{(\frac{2}{9})^{-8} \cdot (\frac{2}{9})^{11} \cdot (\frac{2}{9})^{-9}}{(\frac{2}{9})^{-6}}$$

$$\frac{(\frac{1}{7})^2 \cdot (\frac{1}{7})^2 \cdot (\frac{1}{7})^5 \cdot (\frac{1}{7})^2}{(\frac{1}{7}) \cdot (\frac{1}{7})^{-8}}$$
$$(\frac{1}{7})^{18}$$