



Simplifying Fraction Exponent Expressions (Division)

Name: _____

Date: _____ Score: _____

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

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

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

$$\frac{\left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right) \cdot \left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^{-7}}{\left(\frac{1}{9}\right)^2 \cdot \left(\frac{1}{9}\right)^{-4}}$$

$$\frac{\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^8}{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-10}}$$

$$\frac{\left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{10}}{\left(\frac{1}{9}\right)^9}$$

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

$$\frac{\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^4}{\left(\frac{2}{9}\right)^{-1}}$$

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

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

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

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

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

$$\frac{\left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^6}{\left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)}$$

$$\frac{\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^3}{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-3}}$$



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$$\frac{(\frac{4}{5})^2 \cdot (\frac{4}{5})^7 \cdot (\frac{4}{5})^5}{(\frac{4}{5})^{14}}$$

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

$$(\frac{1}{2})$$

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

$$\frac{(\frac{1}{9})^{-9} \cdot (\frac{1}{9}) \cdot (\frac{1}{9})^6 \cdot (\frac{1}{9})^{-7}}{(\frac{1}{9})^2 \cdot (\frac{1}{9})^{-4}}$$

$$(\frac{1}{9})^{-7}$$

$$\frac{(\frac{1}{3})^3 \cdot (\frac{1}{3})^{11} \cdot (\frac{1}{3})^{-1} \cdot (\frac{1}{3})^8}{(\frac{1}{3})^{10} \cdot (\frac{1}{3})^{-10}}$$

$$(\frac{1}{3})^{21}$$

$$\frac{(\frac{1}{9})^9 \cdot (\frac{1}{9})^{11} \cdot (\frac{1}{9})^{10}}{(\frac{1}{9})^9}$$

$$(\frac{1}{9})^{21}$$

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

$$(\frac{3}{5})^{23}$$

$$\frac{(\frac{2}{9})^{-6} \cdot (\frac{2}{9})^{-2} \cdot (\frac{2}{9})^4}{(\frac{2}{9})^{-1}}$$

$$(\frac{2}{9})^{-3}$$

$$\frac{(\frac{1}{6})^{-5} \cdot (\frac{1}{6})^{10} \cdot (\frac{1}{6})^{-10}}{(\frac{1}{6})^{-1}}$$

$$(\frac{1}{6})^{-4}$$

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

$$(\frac{2}{7})^{23}$$

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

$$(\frac{1}{7})^{18}$$

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

$$(\frac{3}{8})^4$$

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

$$\frac{(\frac{1}{6})^{11} \cdot (\frac{1}{6})^7 \cdot (\frac{1}{6})^{11} \cdot (\frac{1}{6})^6}{(\frac{1}{6})^7 \cdot (\frac{1}{6})}$$

$$(\frac{1}{6})^{27}$$

$$\frac{(\frac{1}{3})^5 \cdot (\frac{1}{3})^{-9} \cdot (\frac{1}{3})^{-5} \cdot (\frac{1}{3})^3}{(\frac{1}{3})^{10} \cdot (\frac{1}{3})^{-3}}$$

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