



# Simplifying Fraction Exponent Expressions (Division)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^{-4}$$

$$\left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^7 \cdot \left(\frac{3}{7}\right)^6$$

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

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

$$\frac{\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right)^{-4} \cdot \left(\frac{4}{9}\right)^2 \cdot \left(\frac{4}{9}\right)^3}{\left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^{-1}}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^4 \cdot \left(\frac{1}{3}\right)^4}{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^2}$$

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{10}$$

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

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

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

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

$$\frac{\left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^{-7}}{\left(\frac{1}{9}\right)^2 \cdot \left(\frac{1}{9}\right)}$$

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

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

$$\frac{\left(\frac{2}{3}\right)^{-10} \cdot \left(\frac{2}{3}\right)^{-9} \cdot \left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^{-8}}{\left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^{-6}}$$



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$$\frac{(\frac{1}{2})^{11} \cdot (\frac{1}{2}) \cdot (\frac{1}{2})^{-4}}{(\frac{1}{2})^8}$$

$$\frac{(\frac{3}{7})^{10} \cdot (\frac{3}{7})^7 \cdot (\frac{3}{7})^6}{(\frac{3}{7})^{23}}$$

$$\frac{(\frac{1}{2})^4 \cdot (\frac{1}{2})^6 \cdot (\frac{1}{2})^3}{(\frac{1}{2})^{13}}$$

$$\frac{(\frac{4}{7}) \cdot (\frac{4}{7})^3 \cdot (\frac{4}{7})^{-4}}{(\frac{4}{7})^0}$$

$$\frac{(\frac{4}{9})^6 \cdot (\frac{4}{9})^{-4} \cdot (\frac{4}{9})^2 \cdot (\frac{4}{9})^3}{(\frac{4}{9})^9 \cdot (\frac{4}{9})^{-1}} \cdot (\frac{4}{9})^{-1}$$

$$\frac{(\frac{1}{3})^{-7} \cdot (\frac{1}{3})^{-10} \cdot (\frac{1}{3})^4 \cdot (\frac{1}{3})^4}{(\frac{1}{3})^9 \cdot (\frac{1}{3})^2} \cdot (\frac{1}{3})^{-20}$$

$$\frac{(\frac{1}{7})^{-10} \cdot (\frac{1}{7})^9 \cdot (\frac{1}{7})^{10}}{(\frac{1}{7})^9}$$

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

$$\frac{(\frac{1}{7})^9 \cdot (\frac{1}{7})^{-8} \cdot (\frac{1}{7})}{(\frac{1}{7})^2}$$

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

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

$$\frac{(\frac{1}{9})^7 \cdot (\frac{1}{9})^{10} \cdot (\frac{1}{9})^5 \cdot (\frac{1}{9})^{-7}}{(\frac{1}{9})^2 \cdot (\frac{1}{9})} \cdot (\frac{1}{9})^{12}$$

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

$$\frac{(\frac{4}{9})^{-2} \cdot (\frac{4}{9})^3 \cdot (\frac{4}{9})^4}{(\frac{4}{9})^{-7}} \cdot (\frac{4}{9})^{12}$$

$$\frac{(\frac{2}{3})^{-10} \cdot (\frac{2}{3})^{-9} \cdot (\frac{2}{3})^{-2} \cdot (\frac{2}{3})^{-8}}{(\frac{2}{3})^{-2} \cdot (\frac{2}{3})^{-6}} \cdot (\frac{2}{3})^{-21}$$