



# Simplifying Fraction Exponent Expressions (Division)

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

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

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{11}$$

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

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{11} \cdot \left(\frac{4}{5}\right)}{\left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-3}}$$

$$\left(\frac{1}{3}\right)^4 \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^2$$

$$\left(\frac{4}{9}\right) \cdot \left(\frac{4}{9}\right)^{-2} \cdot \left(\frac{4}{9}\right)^{11}$$

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

$$\frac{\left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-2} \cdot \left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^{-9}}{\left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^8}$$

$$\left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^4$$

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

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

$$\frac{\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^6}{\left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{11}}$$

$$\frac{\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^2}$$

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

$$\frac{\left(\frac{3}{8}\right)^{11} \cdot \left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^{-9}}{\left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^8}$$

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



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$$\frac{(\frac{1}{2})^{-7} \cdot (\frac{1}{2})^9 \cdot (\frac{1}{2})^{11}}{(\frac{1}{2})^{13}}$$

$$\frac{(\frac{1}{7})^{-10} \cdot (\frac{1}{7})^5 \cdot (\frac{1}{7})^{-10} \cdot (\frac{1}{7})^{-3}}{(\frac{1}{7})^6 \cdot (\frac{1}{7})^3}$$
$$(\frac{1}{7})^{-27}$$

$$\frac{(\frac{4}{5})^{-2} \cdot (\frac{4}{5})^{-2} \cdot (\frac{4}{5})^{11} \cdot (\frac{4}{5})}{(\frac{4}{5})^{-8} \cdot (\frac{4}{5})^{-3}}$$
$$(\frac{4}{5})^{19}$$

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

$$\frac{(\frac{4}{9}) \cdot (\frac{4}{9})^{-2} \cdot (\frac{4}{9})^{11}}{(\frac{4}{9})^{10}}$$

$$\frac{(\frac{1}{3})^{-10} \cdot (\frac{1}{3})^{-5} \cdot (\frac{1}{3})^7 \cdot (\frac{1}{3})^{10}}{(\frac{1}{3})^{-7} \cdot (\frac{1}{3})^{-1}}$$
$$(\frac{1}{3})^{10}$$

$$\frac{(\frac{1}{6})^2 \cdot (\frac{1}{6})^{-2} \cdot (\frac{1}{6})^{-1} \cdot (\frac{1}{6})^{-9}}{(\frac{1}{6})^{-6} \cdot (\frac{1}{6})^8}$$
$$(\frac{1}{6})^{-12}$$

$$\frac{(\frac{1}{7})^{11} \cdot (\frac{1}{7})^{11} \cdot (\frac{1}{7})^4}{(\frac{1}{7})^{26}}$$

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

$$\frac{(\frac{1}{7})^3 \cdot (\frac{1}{7})^{-7} \cdot (\frac{1}{7})^2 \cdot (\frac{1}{7})^{-8}}{(\frac{1}{7})^9 \cdot (\frac{1}{7})^{-9}}$$
$$(\frac{1}{7})^{-10}$$

$$\frac{(\frac{1}{5})^{-4} \cdot (\frac{1}{5})^4 \cdot (\frac{1}{5})^{-4} \cdot (\frac{1}{5})^6}{(\frac{1}{5})^6 \cdot (\frac{1}{5})^{11}}$$
$$(\frac{1}{5})^{-15}$$

$$\frac{(\frac{1}{3}) \cdot (\frac{1}{3})^{-7} \cdot (\frac{1}{3})^{11} \cdot (\frac{1}{3})^9}{(\frac{1}{3})^{11} \cdot (\frac{1}{3})^2}$$
$$(\frac{1}{3})$$

$$\frac{(\frac{2}{7})^8 \cdot (\frac{2}{7})^{-1} \cdot (\frac{2}{7})^8}{(\frac{2}{7})^{15}}$$

$$\frac{(\frac{3}{8})^{11} \cdot (\frac{3}{8})^{-6} \cdot (\frac{3}{8})^{10} \cdot (\frac{3}{8})^{-9}}{(\frac{3}{8})^{-7} \cdot (\frac{3}{8})^8}$$
$$(\frac{3}{8})^5$$

$$\frac{(\frac{1}{6})^{-4} \cdot (\frac{1}{6})^{-1} \cdot (\frac{1}{6})}{(\frac{1}{6})^{-4}}$$
$$(\frac{1}{6})^0$$