



Vereinfachen von Bruchexponenten (Division)

Name: _____

Datum: _____ Ergebnis: _____

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

$$\frac{\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{-9}}{\left(\frac{2}{9}\right)^{-10}}$$

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

$$\frac{\left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^5 \cdot \left(\frac{4}{9}\right)^{-7}}{\left(\frac{4}{9}\right)}$$

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

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

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^{-8}}$$

$$\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^{-3}$$

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

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

$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-7}$$

$$\frac{\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{-4} \cdot \left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^8}{\left(\frac{1}{4}\right)^{-8} \cdot \left(\frac{1}{4}\right)^{-6}}$$

$$\frac{\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{11}}{\left(\frac{1}{3}\right)^5}$$

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

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



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

$$\frac{\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{-9}}{\left(\frac{2}{9}\right)^{-10}} \left(\frac{2}{9}\right)^{17}$$

$$\frac{\left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^{-10}}{\left(\frac{1}{7}\right)^7} \left(\frac{1}{7}\right)^{-8}$$

$$\frac{\left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^5 \cdot \left(\frac{4}{9}\right)^{-7}}{\left(\frac{4}{9}\right)} \left(\frac{4}{9}\right)^{-4}$$

$$\frac{\left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^{-3}}{\left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^{10}} \left(\frac{1}{3}\right)^{-31}$$

$$\frac{\left(\frac{1}{5}\right)^{-7} \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^{-3}}{\left(\frac{1}{5}\right)^{-2}}$$

$$\frac{\left(\frac{1}{5}\right)^{-8} \cdot \left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^{-8}}{\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^{-8}} \left(\frac{1}{5}\right)^{-9}$$

$$\frac{\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^{-3}}{\left(\frac{2}{5}\right)^6}$$

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

$$\frac{\left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)}{\left(\frac{1}{6}\right)^{10}}$$

$$\frac{\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-7}}{\left(\frac{1}{6}\right)^{-6}}$$

$$\frac{\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{-4} \cdot \left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^8}{\left(\frac{1}{4}\right)^{-8} \cdot \left(\frac{1}{4}\right)^{-6}} \left(\frac{1}{4}\right)^{18}$$

$$\frac{\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{11}}{\left(\frac{1}{3}\right)^5} \left(\frac{1}{3}\right)^{15}$$

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

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