



Vereinfachen von Bruchexponenten (Division)

Name: _____

Datum: _____ Ergebnis: _____

$$\frac{\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-5}}{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^6}$$

$$\frac{\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^4}{\left(\frac{1}{3}\right)^{-3}}$$

$$\frac{\left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)}{\left(\frac{4}{7}\right)^5}$$

$$\frac{\left(\frac{1}{6}\right)^{-5} \cdot \left(\frac{1}{6}\right)^{-8} \cdot \left(\frac{1}{6}\right)^{-7}}{\left(\frac{1}{6}\right)^2}$$

$$\frac{\left(\frac{3}{5}\right)^{-5} \cdot \left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^{11} \cdot \left(\frac{3}{5}\right)^{-1}}{\left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^{-10}}$$

$$\frac{\left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^6}{\left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^{-1}}$$

$$\frac{\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^7}{\left(\frac{1}{9}\right)^3 \cdot \left(\frac{1}{9}\right)^4}$$

$$\frac{\left(\frac{4}{5}\right)^{-5} \cdot \left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^6}{\left(\frac{4}{5}\right)^{-3}}$$

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

$$\frac{\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^3}{\left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^{11}}$$

$$\frac{\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^{11}}{\left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^8}$$

$$\frac{\left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^{-2} \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{11}}{\left(\frac{1}{9}\right) \cdot \left(\frac{1}{9}\right)^{-5}}$$

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

$$\frac{\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^2}{\left(\frac{2}{9}\right) \cdot \left(\frac{2}{9}\right)^{10}}$$

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