



## Vereinfachen von Bruchexponenten ( Division )

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

Datum: \_\_\_\_\_ Ergebnis: \_\_\_\_\_

$$\frac{\left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^{11}}{\left(\frac{2}{9}\right)^6}$$

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

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

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

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

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

$$\frac{\left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^3 \cdot \left(\frac{3}{7}\right)^4}{\left(\frac{3}{7}\right)^{-5} \cdot \left(\frac{3}{7}\right)}$$

$$\left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^{-10}$$

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

$$\frac{\left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-10}}{\left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^8}$$

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

$$\frac{\left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{11}}{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-4}}$$

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

$$\frac{\left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^{-7}}{\left(\frac{1}{3}\right)^9}$$

$$\frac{\left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^8 \cdot \left(\frac{1}{7}\right)^5}{\left(\frac{1}{7}\right)^{-4}}$$