



Vereinfachen von Bruchexponenten (Division)

Name: _____

Datum: _____ Ergebnis: _____

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

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

$$\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^6$$

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

$$\frac{\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^{-9}}{\left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^{-1}}$$

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

$$\left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^{-10}$$

$$\left(\frac{1}{6}\right)^{-3} \cdot \left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^{-8}$$

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

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

$$\left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{10}$$

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

$$\frac{\left(\frac{4}{9}\right)^{-2} \cdot \left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^{-7} \cdot \left(\frac{4}{9}\right)^{-2}}{\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^4}$$

$$\frac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{10} \cdot \left(\frac{3}{5}\right)^8}{\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^2}$$

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



Vereinfachen von Bruchexponenten (Division)

Name: _____

Datum: _____ Ergebnis: _____

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

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

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

$$\left(\frac{1}{9}\right)^{31}$$

$$\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^6$$

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

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

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

$$\frac{\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^{-9}}{\left(\frac{3}{8}\right)^4 \cdot \left(\frac{3}{8}\right)^{-1}}$$

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

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

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

$$\left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^{-10}$$

$$\left(\frac{3}{8}\right)^{-8}$$

$$\left(\frac{1}{6}\right)^{-3} \cdot \left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^{-8}$$

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

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

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

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

$$\left(\frac{4}{5}\right)^8$$

$$\left(\frac{1}{2}\right)^{-8} \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^{10}$$

$$\left(\frac{1}{2}\right)^{12}$$

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

$$\left(\frac{1}{6}\right)^{-17}$$

$$\frac{\left(\frac{4}{9}\right)^{-2} \cdot \left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^{-7} \cdot \left(\frac{4}{9}\right)^{-2}}{\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^4}$$

$$\left(\frac{4}{9}\right)^{-36}$$

$$\frac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{10} \cdot \left(\frac{3}{5}\right)^8}{\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^2}$$

$$\left(\frac{3}{5}\right)^{20}$$

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

$$\left(\frac{1}{4}\right)^{17}$$