



Vereinfachen von Bruchexponenten (Division)

Name: _____

Datum: _____ Ergebnis: _____

$$\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^{-1}$$

$$\frac{\left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^9}{\left(\frac{1}{6}\right)^{10}}$$

$$\frac{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^{10} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^5}{\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^6}$$

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

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

$$\frac{\left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^{-4} \cdot \left(\frac{3}{5}\right)^3}{\left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^{-8}}$$

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

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

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

$$\frac{\left(\frac{2}{9}\right)^{-3} \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-3}}{\left(\frac{2}{9}\right)^{-4} \cdot \left(\frac{2}{9}\right)^{-3}}$$

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

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

$$\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{-5}$$

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

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



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$$\frac{\left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^{-1}}{\left(\frac{3}{5}\right)^{-3}}$$

$$\frac{\left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^9}{\left(\frac{1}{6}\right)^{10}}$$
$$\left(\frac{1}{6}\right)^{13}$$

$$\frac{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^{10} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^5}{\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^6}$$
$$\left(\frac{2}{3}\right)^{14}$$

$$\frac{\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-7}}{\left(\frac{1}{3}\right)^{-13}}$$

$$\frac{\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^{-9}}{\left(\frac{1}{8}\right)^5}$$
$$\left(\frac{1}{8}\right)^{-16}$$

$$\frac{\left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^{-4} \cdot \left(\frac{3}{5}\right)^3}{\left(\frac{3}{5}\right)^{-6} \cdot \left(\frac{3}{5}\right)^{-8}}$$
$$\left(\frac{3}{5}\right)^{16}$$

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

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

$$\frac{\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-1}}{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^4}$$
$$\left(\frac{1}{3}\right)^{-38}$$

$$\frac{\left(\frac{2}{9}\right)^{-3} \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-3}}{\left(\frac{2}{9}\right)^{-4} \cdot \left(\frac{2}{9}\right)^{-3}}$$
$$\left(\frac{2}{9}\right)^{11}$$

$$\frac{\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-7}}{\left(\frac{4}{7}\right)^3}$$
$$\left(\frac{4}{7}\right)^{-16}$$

$$\frac{\left(\frac{1}{9}\right)^{-5} \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{-10}}{\left(\frac{1}{9}\right)^{-19}}$$

$$\frac{\left(\frac{4}{9}\right)^{11} \cdot \left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{-5}}{\left(\frac{4}{9}\right)^{16}}$$

$$\frac{\left(\frac{1}{4}\right)^4 \cdot \left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{4}\right)^4}{\left(\frac{1}{4}\right)^{-2}}$$
$$\left(\frac{1}{4}\right)^{13}$$

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