



Förenkling av fraktionsexponenter (division)

namn: _____

Datum: _____ Poäng: _____

$$\frac{\left(\frac{3}{8}\right)^{-4} \cdot \left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^7}{\left(\frac{3}{8}\right)^2}$$

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

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

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

$$\frac{\left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-10}}{\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^5}$$

$$\frac{\left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^9}{\left(\frac{1}{4}\right)^8}$$

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

$$\frac{\left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^3}{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^8}$$

$$\frac{\left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-4} \cdot \left(\frac{2}{9}\right)^{-10}}{\left(\frac{2}{9}\right)^6}$$

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

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

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

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

$$\frac{\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{11}}{\left(\frac{1}{2}\right)^4}$$

$$\frac{\left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^6}{\left(\frac{3}{8}\right)^3}$$



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$$\frac{\left(\frac{3}{8}\right)^{-4} \cdot \left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^7}{\left(\frac{3}{8}\right)^2}$$
$$\left(\frac{3}{8}\right)^{-8}$$

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

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

$$\frac{\left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-2}}{\left(\frac{4}{5}\right)^{-18}}$$

$$\frac{\left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-10}}{\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^5}$$
$$\left(\frac{1}{8}\right)^{-10}$$

$$\frac{\left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^9}{\left(\frac{1}{4}\right)^8}$$
$$\left(\frac{1}{4}\right)^{17}$$

$$\frac{\left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^{-8}}{\left(\frac{1}{6}\right)^{-10}}$$
$$\left(\frac{1}{6}\right)^{18}$$

$$\frac{\left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^3}{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^8}$$
$$\left(\frac{2}{3}\right)^{-14}$$

$$\frac{\left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-4} \cdot \left(\frac{2}{9}\right)^{-10}}{\left(\frac{2}{9}\right)^6}$$
$$\left(\frac{2}{9}\right)^{-30}$$

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

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

$$\frac{\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^{-3}}{\left(\frac{2}{3}\right)^{12}}$$

$$\frac{\left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^2 \cdot \left(\frac{3}{5}\right)^{-8} \cdot \left(\frac{3}{5}\right)^{-4}}{\left(\frac{3}{5}\right)^2 \cdot \left(\frac{3}{5}\right)^5}$$
$$\left(\frac{3}{5}\right)^{-20}$$

$$\frac{\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{11}}{\left(\frac{1}{2}\right)^4}$$
$$\left(\frac{1}{2}\right)^{-10}$$

$$\frac{\left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^6}{\left(\frac{3}{8}\right)^3}$$
$$\left(\frac{3}{8}\right)^{-11}$$