



## Förenkling av fraktionsexponenter (division)

namn: \_\_\_\_\_

Datum: \_\_\_\_\_ Poäng: \_\_\_\_\_

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

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

$$\frac{\left(\frac{1}{4}\right)^4 \cdot \left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-10}}{\left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^{-7}}$$

$$\frac{\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^4 \cdot \left(\frac{1}{3}\right)^{-5}}{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{11}}$$

$$\left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{10}$$

$$\frac{\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^8 \cdot \left(\frac{1}{7}\right)^4}{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^2}$$

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

$$\left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{-9} \cdot \left(\frac{1}{6}\right)^{-10}$$

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

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

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

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

$$\frac{\left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right)^8 \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-5}}{\left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{-4}}$$

$$\frac{\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^9}{\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^{-7}}$$

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



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

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

$$\frac{\left(\frac{1}{4}\right)^4 \cdot \left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-10}}{\left(\frac{1}{4}\right)^{-7} \cdot \left(\frac{1}{4}\right)^{-7}}$$
$$\left(\frac{1}{4}\right)^{11}$$

$$\frac{\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^4 \cdot \left(\frac{1}{3}\right)^{-5}}{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{11}}$$
$$\left(\frac{1}{3}\right)^{-30}$$

$$\frac{\left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{10}}{\left(\frac{2}{5}\right)^8}$$

$$\frac{\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^8 \cdot \left(\frac{1}{7}\right)^4}{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^2}$$
$$\left(\frac{1}{7}\right)^{12}$$

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

$$\frac{\left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{-9} \cdot \left(\frac{1}{6}\right)^{-10}}{\left(\frac{1}{6}\right)^{-12}}$$

$$\frac{\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-2}}{\left(\frac{1}{3}\right)^{-3}}$$
$$\left(\frac{1}{3}\right)^{10}$$

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

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

$$\frac{\left(\frac{2}{7}\right)^2 \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^2 \cdot \left(\frac{2}{7}\right)^6}{\left(\frac{2}{7}\right)^{-3} \cdot \left(\frac{2}{7}\right)^{-10}}$$
$$\left(\frac{2}{7}\right)^{28}$$

$$\frac{\left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right)^8 \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-5}}{\left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{-4}}$$
$$\left(\frac{2}{7}\right)^{13}$$

$$\frac{\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^9}{\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^{-7}}$$
$$\left(\frac{1}{8}\right)^{20}$$

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