



Förenkling av fraktionsexponenter (division)

namn: _____

Datum: _____ Poäng: _____

$$\frac{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^9 \cdot \left(\frac{3}{8}\right)^{-6}}{\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^8}$$

$$\frac{\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-2} \cdot \left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{11}}{\left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right)^{10}}$$

$$\frac{\left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-2}}{\left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^{-10}}$$

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

$$\frac{\left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^6 \cdot \left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^{10}}{\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-3}}$$

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

$$\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^{-8}$$

$$\frac{\left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^{-5} \cdot \left(\frac{1}{6}\right)^{-6}}{\left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^{-5}}$$

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

$$\frac{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^6 \cdot \left(\frac{2}{3}\right)^{-8}}{\left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-2}}$$

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^5}{\left(\frac{4}{7}\right)^{-10}}$$

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

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

$$\frac{\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right) \cdot \left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^{-3}}{\left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^{-3}}$$

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



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$$\frac{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^9 \cdot \left(\frac{3}{8}\right)^{-6}}{\left(\frac{3}{8}\right)^8 \cdot \left(\frac{3}{8}\right)^8} \quad \left(\frac{3}{8}\right)^{-23}$$

$$\frac{\left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^{-2} \cdot \left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{11}}{\left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right)^{10}} \quad \left(\frac{2}{7}\right)^7$$

$$\frac{\left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^{-7} \cdot \left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-2}}{\left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^{-10}} \quad \left(\frac{3}{8}\right)^{-1}$$

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

$$\frac{\left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^6 \cdot \left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^{10}}{\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-3}} \quad \left(\frac{2}{9}\right)^3$$

$$\frac{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^7}{\left(\frac{2}{3}\right)^{-3}} \quad \left(\frac{2}{3}\right)^{24}$$

$$\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^{-8} \quad \left(\frac{1}{2}\right)^{-22}$$

$$\frac{\left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^{-5} \cdot \left(\frac{1}{6}\right)^{-6}}{\left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^{-5}} \quad \left(\frac{1}{6}\right)^8$$

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

$$\frac{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^6 \cdot \left(\frac{2}{3}\right)^{-8}}{\left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-2}} \quad \left(\frac{2}{3}\right)^3$$

$$\frac{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^5}{\left(\frac{4}{7}\right)^{-10}} \quad \left(\frac{4}{7}\right)^{12}$$

$$\frac{\left(\frac{3}{5}\right)^9 \cdot \left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^{10}}{\left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^{-8}} \quad \left(\frac{3}{5}\right)^{18}$$

$$\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^{-8} \cdot \left(\frac{3}{7}\right)^{-4} \quad \left(\frac{3}{7}\right)^{-21}$$

$$\frac{\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right) \cdot \left(\frac{1}{9}\right)^{-8} \cdot \left(\frac{1}{9}\right)^{-3}}{\left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^{-3}} \quad \left(\frac{1}{9}\right)^{-11}$$

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