



Forenkling af brøkeksponenter (division)

Navn: _____

Dato: _____ Score: _____

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

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

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^8 \cdot \left(\frac{4}{7}\right)^{10}}{\left(\frac{4}{7}\right)^{-9}}$$

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

$$\left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^5$$

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

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

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

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

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

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

$$\frac{\left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^{-3} \cdot \left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{-8}}{\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^2}$$

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

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

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



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

$$\left(\frac{4}{9}\right)^{-14}$$

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

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

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^8 \cdot \left(\frac{4}{7}\right)^{10}}{\left(\frac{4}{7}\right)^{-9}}$$

$$\left(\frac{4}{7}\right)^{25}$$

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

$$\left(\frac{3}{5}\right)^6$$

$$\left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^5$$

$$\left(\frac{2}{9}\right)^7$$

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

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

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

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

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

$$\left(\frac{1}{5}\right)^{13}$$

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

$$\left(\frac{1}{3}\right)^{19}$$

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

$$\left(\frac{2}{7}\right)^9$$

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

$$\left(\frac{1}{3}\right)^{-21}$$

$$\frac{\left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^{-3} \cdot \left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{-8}}{\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^2}$$

$$\left(\frac{2}{5}\right)^{-29}$$

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

$$\left(\frac{1}{5}\right)^{-23}$$

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

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

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

$$\left(\frac{1}{3}\right)^{-17}$$