



분수 지수 단순화 (나눗셈)

이름: _____

날짜: _____ 점수: _____

$$\frac{\left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-7} \cdot \left(\frac{2}{9}\right)^6}{\left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{-4}}$$

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

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

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

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-6}$$

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

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

$$\frac{\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-9}}{\left(\frac{4}{7}\right)^{-1}}$$

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

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

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

$$\frac{\left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^2}{\left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^7}$$

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

$$\frac{\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{11}}{\left(\frac{2}{9}\right)^{11}}$$

$$\frac{\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-8}}{\left(\frac{1}{2}\right)^{-3}}$$



이름: _____

날짜: _____ 점수: _____

$$\frac{\left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-7} \cdot \left(\frac{2}{9}\right)^6}{\left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{-4}}$$

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

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

$$\left(\frac{3}{5}\right)^4$$

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

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

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

$$\left(\frac{2}{5}\right)^6$$

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-6}$$

$$\left(\frac{1}{2}\right)^{13}$$

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

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

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

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

$$\frac{\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-9}}{\left(\frac{4}{7}\right)^{-1}}$$

$$\left(\frac{4}{7}\right)^{-21}$$

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

$$\left(\frac{1}{7}\right)^{22}$$

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

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

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

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

$$\frac{\left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^2}{\left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^7}$$

$$\left(\frac{2}{7}\right)^{-12}$$

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

$$\left(\frac{3}{7}\right)^{18}$$

$$\frac{\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{11}}{\left(\frac{2}{9}\right)^{11}}$$

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

$$\frac{\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-8}}{\left(\frac{1}{2}\right)^{-3}}$$

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