



Nimi: _____

Päivämäärä: _____ Pisteet: _____

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

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

$$\frac{\left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^2}{\left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^{11}}$$

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

$$\frac{\left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-2}}{\left(\frac{1}{8}\right)^{-2}}$$

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

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

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

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

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

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

$$\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{11}$$

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

$$\left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^2$$

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



Nimi: _____

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$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^{-10} \cdot \left(\frac{1}{4}\right)^2}{\left(\frac{1}{4}\right)^{-13}}$$

$$\frac{\left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^{-2}}{\left(\frac{4}{5}\right)^{-21}}$$

$$\frac{\left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^2}{\left(\frac{4}{9}\right)^4 \cdot \left(\frac{4}{9}\right)^{11}} \cdot \left(\frac{4}{9}\right)^{-23}$$

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

$$\frac{\left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-2}}{\left(\frac{1}{8}\right)^{-2}} \cdot \left(\frac{1}{8}\right)^{-3}$$

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

$$\frac{\left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{-9}}{\left(\frac{1}{5}\right)^0}$$

$$\frac{\left(\frac{4}{9}\right)^{-1} \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-9}}{\left(\frac{4}{9}\right)^3} \cdot \left(\frac{4}{9}\right)^{-16}$$

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

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^3}{\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^9} \cdot \left(\frac{4}{7}\right)^{-14}$$

$$\frac{\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-8}}{\left(\frac{1}{3}\right)^{-9}}$$

$$\frac{\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{11}}{\left(\frac{1}{2}\right)^{31}}$$

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

$$\frac{\left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^2}{\left(\frac{1}{9}\right)^{18}}$$

$$\frac{\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^5}{\left(\frac{1}{2}\right)^{15}}$$