



Yksinkertaistavat murto -osuudet (jako)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

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

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

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

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

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

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

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

$$\frac{\left(\frac{1}{4}\right)^{-4} \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right) \cdot \left(\frac{1}{4}\right)^3}{\left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^{-8}}$$

$$\frac{\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^5 \cdot \left(\frac{1}{8}\right)^{-1}}{\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^5}$$

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

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

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^5}{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-1}}$$

$$\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^{-5} \cdot \left(\frac{2}{7}\right)^{-8}$$

$$\frac{\left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^2}{\left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^{10}}$$

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



Nimi: _____

Päivämäärä: _____ Pisteet: _____

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

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

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

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

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

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

$$\frac{\left(\frac{4}{5}\right)^6 \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{-5}}{\left(\frac{4}{5}\right)^7} \left(\frac{4}{5}\right)^{-12}$$

$$\frac{\left(\frac{1}{4}\right)^{-4} \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right) \cdot \left(\frac{1}{4}\right)^3}{\left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^{-8}} \left(\frac{1}{4}\right)^{12}$$

$$\frac{\left(\frac{1}{8}\right)^{11} \cdot \left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^5 \cdot \left(\frac{1}{8}\right)^{-1}}{\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^5} \left(\frac{1}{8}\right)^4$$

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

$$\frac{\left(\frac{4}{5}\right)^{-4} \cdot \left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-5}}{\left(\frac{4}{5}\right)^{-16}}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^5}{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-1}} \left(\frac{1}{3}\right)^5$$

$$\frac{\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^{-5} \cdot \left(\frac{2}{7}\right)^{-8}}{\left(\frac{2}{7}\right)^{-22}}$$

$$\frac{\left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^{-7} \cdot \left(\frac{1}{6}\right)^2}{\left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^{10}} \left(\frac{1}{6}\right)^{-12}$$

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