

Yksinkertaistavat murto -osuudet (jako)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-10}}{\left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-10}}$$

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

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

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

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^{-8}$$

$$\frac{\left(\frac{1}{2}\right)^{-6} \cdot \left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^2}{\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-5}}$$

$$\frac{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-2}}{\left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)}$$

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

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

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

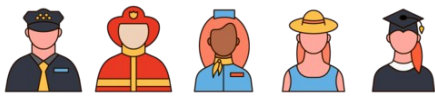
$$\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^3$$

$$\frac{\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{11}}{\left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^6}$$

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

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

$$\left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^3$$



Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^2 \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-10}}{\left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-10}} \quad \left(\frac{4}{5}\right)^{-1}$$

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

$$\frac{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{10}}{\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^8} \quad \left(\frac{1}{3}\right)^0$$

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

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^{-8} \quad \left(\frac{3}{7}\right)^0$$

$$\frac{\left(\frac{1}{2}\right)^{-6} \cdot \left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^2}{\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-5}} \quad \left(\frac{1}{2}\right)^{-17}$$

$$\frac{\left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-2}}{\left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)} \quad \left(\frac{1}{3}\right)^{-9}$$

$$\left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^{10} \quad \left(\frac{1}{9}\right)^{12}$$

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

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

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

$$\frac{\left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^{11}}{\left(\frac{1}{9}\right)^7 \cdot \left(\frac{1}{9}\right)^6} \quad \left(\frac{1}{9}\right)^{10}$$

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

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

$$\left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^3 \quad \left(\frac{2}{5}\right)^5$$