



## Yksinkertaistavat murto -osuudet (jako)

Nimi: \_\_\_\_\_

Päivämäärä: \_\_\_\_\_ Pisteet: \_\_\_\_\_

$$\frac{\left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right)^9}{\left(\frac{1}{7}\right)^{-10}}$$

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

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

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

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

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

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

$$\frac{\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-1} \cdot \left(\frac{1}{2}\right)^{-4}}{\left(\frac{1}{2}\right)^9}$$

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

$$\frac{\left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)}{\left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)}$$

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

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

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

$$\frac{\left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^{11}}{\left(\frac{3}{8}\right)^2}$$

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



Nimi: \_\_\_\_\_

Päivämäärä: \_\_\_\_\_ Pisteet: \_\_\_\_\_

$$\frac{\left(\frac{1}{7}\right)^{11} \cdot \left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right)^9}{\left(\frac{1}{7}\right)^{-10}}$$
$$\left(\frac{1}{7}\right)^{22}$$

$$\frac{\left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^{-1}}{\left(\frac{4}{9}\right)^3}$$
$$\left(\frac{4}{9}\right)^{-16}$$

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

$$\left(\frac{3}{7}\right)^{-1} \cdot \left(\frac{3}{7}\right)^8 \cdot \left(\frac{3}{7}\right)^{-7}$$
$$\left(\frac{3}{7}\right)^0$$

$$\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)^8$$
$$\left(\frac{2}{3}\right)^{16}$$

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

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

$$\frac{\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-1} \cdot \left(\frac{1}{2}\right)^{-4}}{\left(\frac{1}{2}\right)^9}$$
$$\left(\frac{1}{2}\right)^{-6}$$

$$\left(\frac{1}{8}\right)^5 \cdot \left(\frac{1}{8}\right)^{-10} \cdot \left(\frac{1}{8}\right)^{-4}$$
$$\left(\frac{1}{8}\right)^{-9}$$

$$\frac{\left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^8 \cdot \left(\frac{2}{5}\right)}{\left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)}$$
$$\left(\frac{2}{5}\right)^8$$

$$\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^2$$
$$\left(\frac{4}{7}\right)^{-11}$$

$$\frac{\left(\frac{4}{9}\right) \cdot \left(\frac{4}{9}\right)^{-9} \cdot \left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{-1}}{\left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^{-1}}$$
$$\left(\frac{4}{9}\right)^8$$

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-5}$$
$$\left(\frac{1}{2}\right)^{-22}$$

$$\frac{\left(\frac{3}{8}\right)^{-9} \cdot \left(\frac{3}{8}\right)^{10} \cdot \left(\frac{3}{8}\right)^{11}}{\left(\frac{3}{8}\right)^2}$$
$$\left(\frac{3}{8}\right)^{10}$$

$$\left(\frac{1}{7}\right)^{-3} \cdot \left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^7$$
$$\left(\frac{1}{7}\right)^{11}$$