



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

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

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

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

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

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

$$\left(\frac{2}{3}\right)^{-9} \cdot \left(\frac{2}{3}\right)^{10} \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-1}$$

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

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

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

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

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

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

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^2$$

$$\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^5$$

$$\left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^{11}$$

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



Murtoeksponenttien yksinkertaistaminen  
(kertolasku)

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

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

$$\left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{4}\right)^{-10}$$
$$\left(\frac{1}{4}\right)^{-7}$$

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

$$\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-5}$$
$$\left(\frac{4}{7}\right)^{-18}$$

$$\left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-1} \cdot \left(\frac{2}{7}\right)^7$$
$$\left(\frac{2}{7}\right)^{16}$$

$$\left(\frac{2}{3}\right)^{-9} \cdot \left(\frac{2}{3}\right)^{10} \cdot \left(\frac{2}{3}\right)^{-3} \cdot \left(\frac{2}{3}\right)^{-1}$$
$$\left(\frac{2}{3}\right)^{-3}$$

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

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

$$\left(\frac{2}{9}\right)^{-7} \cdot \left(\frac{2}{9}\right)^{-4} \cdot \left(\frac{2}{9}\right) \cdot \left(\frac{2}{9}\right)^{-3}$$
$$\left(\frac{2}{9}\right)^{-13}$$

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-4}$$
$$\left(\frac{1}{7}\right)^{-14}$$

$$\left(\frac{2}{7}\right)^{11} \cdot \left(\frac{2}{7}\right)^5 \cdot \left(\frac{2}{7}\right)^9$$
$$\left(\frac{2}{7}\right)^{25}$$

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

$$\left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^2$$
$$\left(\frac{1}{2}\right)^8$$

$$\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^5$$
$$\left(\frac{1}{3}\right)^{-6}$$

$$\left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^{10} \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^{11}$$
$$\left(\frac{1}{2}\right)^{27}$$

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