



Murtoeksponenttien yksinkertaistaminen
(kertolasku)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\left(\frac{1}{8}\right)^{-1} \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-2}$$

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

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

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

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

$$\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^4$$

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

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

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

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

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

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

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

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

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



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$$\left(\frac{1}{8}\right)^{-1} \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^{-2}$$
$$\left(\frac{1}{8}\right)^{13}$$

$$\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^3$$
$$\left(\frac{1}{2}\right)^{11}$$

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

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-3} \cdot \left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^5$$
$$\left(\frac{1}{2}\right)^{-10}$$

$$\left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^{-1}$$
$$\left(\frac{1}{2}\right)^{14}$$

$$\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^4$$
$$\left(\frac{1}{5}\right)^{-3}$$

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

$$\left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^{-1} \cdot \left(\frac{2}{5}\right)^2$$
$$\left(\frac{2}{5}\right)^0$$

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

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

$$\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^{-3}$$
$$\left(\frac{3}{7}\right)^{-8}$$

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

$$\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^{-1}$$
$$\left(\frac{3}{7}\right)^5$$

$$\left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{-6}$$
$$\left(\frac{1}{5}\right)^{-2}$$

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