



Simplification des exposants de fractions  
(multiplication)

Nom: \_\_\_\_\_

Date: \_\_\_\_\_ Note: \_\_\_\_\_

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

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

$$\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^4$$

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

$$\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^{-6} \cdot \left(\frac{2}{7}\right)^{11}$$

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

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

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

$$\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-4}$$

$$\left(\frac{3}{7}\right)^8 \cdot \left(\frac{3}{7}\right)^{10}$$

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

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

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

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

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



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

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

$$\left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^4$$
$$\left(\frac{1}{2}\right)^{10}$$

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

$$\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^{-6} \cdot \left(\frac{2}{7}\right)^{11}$$
$$\left(\frac{2}{7}\right)^{-4}$$

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

$$\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^5$$
$$\left(\frac{1}{3}\right)^{12}$$

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

$$\left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-4}$$
$$\left(\frac{2}{9}\right)^7$$

$$\left(\frac{3}{7}\right)^8 \cdot \left(\frac{3}{7}\right)^{10}$$
$$\left(\frac{3}{7}\right)^{18}$$

$$\left(\frac{2}{9}\right)^6 \cdot \left(\frac{2}{9}\right)^{-6}$$
$$\left(\frac{2}{9}\right)^0$$

$$\left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{-6}$$
$$\left(\frac{1}{2}\right)^{14}$$

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

$$\left(\frac{3}{7}\right)^{-4} \cdot \left(\frac{3}{7}\right)^{-2} \cdot \left(\frac{3}{7}\right)$$
$$\left(\frac{3}{7}\right)^{-5}$$

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