



分数指数の簡略化(除算)

名前: _____

日にち: _____ スコア: _____

$$\frac{\left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-9}}{\left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{11}}$$

$$\frac{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-5}}{\left(\frac{2}{5}\right)^{-8}}$$

$$\frac{\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^4}{\left(\frac{1}{3}\right)^{-7}}$$

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

$$\frac{\left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{-1}}{\left(\frac{4}{5}\right)^5 \cdot \left(\frac{4}{5}\right)^{-10}}$$

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

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

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

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

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

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

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

$$\frac{\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^{-4} \cdot \left(\frac{1}{8}\right)^{-3}}{\left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^4}$$

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

$$\frac{\left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^3}{\left(\frac{4}{7}\right)^{-5}}$$



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$$\frac{\left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{-9}}{\left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{11}}$$
$$\left(\frac{4}{5}\right)^{-41}$$

$$\frac{\left(\frac{2}{5}\right)^9 \cdot \left(\frac{2}{5}\right)^6 \cdot \left(\frac{2}{5}\right)^{-5}}{\left(\frac{2}{5}\right)^{-8}}$$
$$\left(\frac{2}{5}\right)^{18}$$

$$\frac{\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^4}{\left(\frac{1}{3}\right)^{-7}}$$
$$\left(\frac{1}{3}\right)^{25}$$

$$\frac{\left(\frac{4}{7}\right)^4 \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^{-6}}{\left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^5}$$
$$\left(\frac{4}{7}\right)^8$$

$$\frac{\left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{-1}}{\left(\frac{4}{5}\right)^5 \cdot \left(\frac{4}{5}\right)^{-10}}$$
$$\left(\frac{4}{5}\right)^{11}$$

$$\frac{\left(\frac{1}{7}\right)^{-2} \cdot \left(\frac{1}{7}\right)^8 \cdot \left(\frac{1}{7}\right)^{10}}{\left(\frac{1}{7}\right)^{16}}$$

$$\frac{\left(\frac{1}{9}\right)^{-3} \cdot \left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right)^4}{\left(\frac{1}{9}\right)^6}$$
$$\left(\frac{1}{9}\right)^{-14}$$

$$\frac{\left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)^{-6}}{\left(\frac{2}{3}\right)^{-12}}$$

$$\frac{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^3 \cdot \left(\frac{3}{8}\right)^{-7}}{\left(\frac{3}{8}\right)^{-2}}$$
$$\left(\frac{3}{8}\right)^{-5}$$

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

$$\frac{\left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^3}{\left(\frac{1}{6}\right)^{12}}$$

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

$$\frac{\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^{-4} \cdot \left(\frac{1}{8}\right)^{-3}}{\left(\frac{1}{8}\right)^6 \cdot \left(\frac{1}{8}\right)^4}$$
$$\left(\frac{1}{8}\right)^{-20}$$

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

$$\frac{\left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^3}{\left(\frac{4}{7}\right)^{-5}}$$
$$\left(\frac{4}{7}\right)^6$$