



Forenkling av brøkeksponenter (divisjon)

StudentName: _____

ExamDate: _____ ExamScore: _____

$$\frac{\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^8}{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{-3}}$$

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

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

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

$$\left(\frac{2}{9}\right)^{-3} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^2$$

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

$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-4}}{\left(\frac{1}{4}\right)^9}$$

$$\frac{\left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{-8}}{\left(\frac{1}{7}\right)^9}$$

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

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

$$\frac{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^8}{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)}$$

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

$$\frac{\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-9}}{\left(\frac{4}{7}\right)^{-4}}$$

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

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



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

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

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

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

$$\frac{\left(\frac{2}{9}\right)^{-3} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^2}{\left(\frac{2}{9}\right)^{-6}}$$

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

$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-4}}{\left(\frac{1}{4}\right)^9}$$
$$\left(\frac{1}{4}\right)^{-12}$$

$$\frac{\left(\frac{1}{7}\right)^3 \cdot \left(\frac{1}{7}\right)^9 \cdot \left(\frac{1}{7}\right)^{-8}}{\left(\frac{1}{7}\right)^9}$$
$$\left(\frac{1}{7}\right)^{-5}$$

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

$$\frac{\left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^{-7} \cdot \left(\frac{3}{7}\right)^{-1}}{\left(\frac{3}{7}\right)^7 \cdot \left(\frac{3}{7}\right)^{-1}}$$
$$\left(\frac{3}{7}\right)^{-20}$$

$$\frac{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^8}{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)}$$
$$\left(\frac{1}{3}\right)^{-8}$$

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

$$\frac{\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-9}}{\left(\frac{4}{7}\right)^{-4}}$$
$$\left(\frac{4}{7}\right)^9$$

$$\frac{\left(\frac{2}{3}\right)^{11} \cdot \left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)}{\left(\frac{2}{3}\right)^9}$$
$$\left(\frac{2}{3}\right)^{12}$$

$$\left(\frac{4}{5}\right)^8 \cdot \left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-9}$$
$$\left(\frac{4}{5}\right)^{-3}$$