



Forenkling av brøkeksponenter (divisjon)

StudentName: _____

ExamDate: _____ ExamScore: _____

$$\frac{\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^4}{\left(\frac{4}{9}\right)^{-10}}$$

$$\frac{\left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-10}}{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^5}$$

$$\frac{\left(\frac{1}{6}\right)^{-3} \cdot \left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^8}{\left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{-3}}$$

$$\frac{\left(\frac{2}{7}\right) \cdot \left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^8}{\left(\frac{2}{7}\right)}$$

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

$$\frac{\left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^4}{\left(\frac{1}{5}\right)^{-8}}$$

$$\frac{\left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{-4}}{\left(\frac{2}{5}\right)^{-3}}$$

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

$$\frac{\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^6}{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^2}$$

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

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

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

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

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

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



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$$\frac{\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^4}{\left(\frac{4}{9}\right)^{-10}}$$
$$\left(\frac{4}{9}\right)^{30}$$

$$\frac{\left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-10}}{\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^5}$$
$$\left(\frac{1}{3}\right)^{-33}$$

$$\frac{\left(\frac{1}{6}\right)^{-3} \cdot \left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^8}{\left(\frac{1}{6}\right)^7 \cdot \left(\frac{1}{6}\right)^{-3}}$$
$$\left(\frac{1}{6}\right)^{21}$$

$$\frac{\left(\frac{2}{7}\right) \cdot \left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^8}{\left(\frac{2}{7}\right)}$$
$$\left(\frac{2}{7}\right)^{14}$$

$$\frac{\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)}{\left(\frac{4}{7}\right)}$$
$$\left(\frac{4}{7}\right)^8$$

$$\frac{\left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^{-2} \cdot \left(\frac{1}{5}\right)^4}{\left(\frac{1}{5}\right)^{-8}}$$
$$\left(\frac{1}{5}\right)^{16}$$

$$\frac{\left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{-4}}{\left(\frac{2}{5}\right)^{-3}}$$
$$\left(\frac{2}{5}\right)^{-3}$$

$$\left(\frac{3}{5}\right)^{11} \cdot \left(\frac{3}{5}\right)^6 \cdot \left(\frac{3}{5}\right)^8$$
$$\left(\frac{3}{5}\right)^{25}$$

$$\frac{\left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^6}{\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^2}$$
$$\left(\frac{1}{3}\right)^{-17}$$

$$\frac{\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{-8}}{\left(\frac{1}{4}\right)^{10} \cdot \left(\frac{1}{4}\right)^{-5}}$$
$$\left(\frac{1}{4}\right)^2$$

$$\left(\frac{2}{3}\right)^{-9} \cdot \left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^5$$
$$\left(\frac{2}{3}\right)^{-1}$$

$$\frac{\left(\frac{3}{8}\right)^5 \cdot \left(\frac{3}{8}\right)^{-6} \cdot \left(\frac{3}{8}\right)^{11}}{\left(\frac{3}{8}\right)^3}$$
$$\left(\frac{3}{8}\right)^7$$

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

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

$$\frac{\left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right) \cdot \left(\frac{4}{5}\right)^5}{\left(\frac{4}{5}\right)^{-5}}$$
$$\left(\frac{4}{5}\right)^{15}$$