



Forenkling av brøkeksponenter (divisjon)

StudentName: _____

ExamDate: _____ ExamScore: _____

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

$$\frac{\left(\frac{3}{5}\right)^{-4} \cdot \left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^{-8}}{\left(\frac{3}{5}\right)^{-10}}$$

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

$$\frac{\left(\frac{2}{5}\right)^2 \cdot \left(\frac{2}{5}\right)^{-2} \cdot \left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^4}{\left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{11}}$$

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

$$\frac{\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^2 \cdot \left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^9}{\left(\frac{3}{7}\right)^{-5} \cdot \left(\frac{3}{7}\right)^9}$$

$$\frac{\left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-5}}{\left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-7}}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{-4}}$$

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

$$\frac{\left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^5}{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-8}}$$

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

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

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

$$\frac{\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^3}{\left(\frac{1}{4}\right)^{-9} \cdot \left(\frac{1}{4}\right)^{-3}}$$

$$\frac{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-6}}{\left(\frac{2}{3}\right)^8 \cdot \left(\frac{2}{3}\right)^6}$$



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

$$\frac{\left(\frac{3}{5}\right)^{-4} \cdot \left(\frac{3}{5}\right)^{-1} \cdot \left(\frac{3}{5}\right)^{-8}}{\left(\frac{3}{5}\right)^{-10}} \left(\frac{3}{5}\right)^{-3}$$

$$\frac{\left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right) \cdot \left(\frac{1}{7}\right)^{-2}}{\left(\frac{1}{7}\right)^{-9}}$$

$$\frac{\left(\frac{2}{5}\right)^2 \cdot \left(\frac{2}{5}\right)^{-2} \cdot \left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^4}{\left(\frac{2}{5}\right)^{-8} \cdot \left(\frac{2}{5}\right)^{11}} \left(\frac{2}{5}\right)^{11}$$

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

$$\frac{\left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^2 \cdot \left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^9}{\left(\frac{3}{7}\right)^{-5} \cdot \left(\frac{3}{7}\right)^9} \left(\frac{3}{7}\right)^2$$

$$\frac{\left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-5}}{\left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{-7}} \left(\frac{4}{7}\right)^{-10}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^{-4}} \left(\frac{1}{3}\right)^{-1}$$

$$\frac{\left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right) \cdot \left(\frac{1}{7}\right)^{-7}}{\left(\frac{1}{7}\right)^{-14}}$$

$$\frac{\left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^5}{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-8}} \left(\frac{2}{3}\right)^7$$

$$\frac{\left(\frac{4}{9}\right)^{-8} \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^9}{\left(\frac{4}{9}\right)^{-5}} \left(\frac{4}{9}\right)^{14}$$

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

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

$$\frac{\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^3}{\left(\frac{1}{4}\right)^{-9} \cdot \left(\frac{1}{4}\right)^{-3}} \left(\frac{1}{4}\right)^{29}$$

$$\frac{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^5 \cdot \left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-6}}{\left(\frac{2}{3}\right)^8 \cdot \left(\frac{2}{3}\right)^6} \left(\frac{2}{3}\right)^{-5}$$