

Name: _____

Date: _____

Learning Goal 2.3

I can apply order of operations to fractions.

Confirm all the answers to the following questions by showing one operation per line of work.

a. $\frac{1}{2} \times \left(\frac{8}{9} - \frac{5}{9} + \frac{1}{4} \right) = \frac{7}{24}$

b. $\left(\frac{8}{9} - \frac{1}{2} \right) \div \frac{5}{6} + \frac{3}{4} = \frac{73}{60}$

c. $\frac{1}{5} \div \frac{8}{9} \times \left(\frac{5}{9} - \frac{1}{2} \right) = \frac{1}{80}$

d. $\frac{1}{4} \div \left(\frac{1}{8} + \frac{7}{8} \times \frac{2}{5} \right) = \frac{10}{19}$

e. $\frac{4}{9} \times \left(\frac{4}{5} \div \frac{3}{4} - \frac{7}{9} + \frac{3}{5} \right) = \frac{32}{81}$

f. $\left(\frac{3}{4} \times \left(\frac{2}{3} - \frac{2}{5} \right) \right) \div \frac{1}{8} + \frac{7}{8} = \frac{99}{40}$

g. $\left(-\frac{5}{9} \right)^2 + \left(-\frac{1}{9} \right) \times \left(-\frac{7}{9} \right) = \frac{32}{81}$

h. $\frac{1}{3} \times \left(-\frac{5}{9} \right) + \left(\frac{4}{9} \right)^2 = \frac{1}{81}$

i. $\left(\frac{2}{3} \right)^2 \times \left(\frac{5}{6} \div \frac{2}{5} - \frac{1}{4} \right) = \frac{22}{27}$

j. $\left(\left(-\frac{3}{5} \right) \times \left(\frac{1}{2} \right)^2 \right) \div \left(\left(-\frac{1}{8} \right) + \frac{3}{5} \right) = -\frac{6}{19}$

k. $\left(\left(\frac{5}{6} - \frac{2}{9} \right) \times \frac{1}{3} \right) \div \left(\frac{2}{5} + \frac{1}{2} - \frac{4}{5} \right) \times \frac{3}{8} = \frac{55}{72}$