Order of Operations with Fractions (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(-\frac{7}{8}\right)-\left(-\frac{3}{8}\right)\times\left(-\frac{1}{4}\right)$

$\left(\left(-\frac{1}{4}\right)+\frac{7}{8}\right)\times\frac{3}{8}$

$\frac{1}{9}\div\left(\left(-\frac{5}{8}\right)-\left(-\frac{4}{5}\right)\right)$

$\frac{4}{5}\div\left(\frac{1}{4}-\frac{3}{8}\right)$

$\left(\frac{1}{4}\right)^{2}-\frac{3}{8}$

$\left(-\frac{2}{9}\right)\times\left(\left(-\frac{2}{3}\right)-\frac{1}{2}\right)$

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$\left(-\frac{7}{8}\right) - \left(-\frac{3}{8}\right) \times \left(-\frac{1}{4}\right)$

$= \left(-\frac{7}{8}\right) - \frac{3}{32}$

$= -\frac{31}{32}$

$\left(\left(-\frac{1}{4}\right) + \frac{7}{8}\right) \times \frac{3}{8}$

$= \frac{5}{8} \times \frac{3}{8}$

$= \frac{15}{64}$

$\frac{1}{9} \div \left(\left(-\frac{5}{8}\right) - \left(-\frac{4}{5}\right)\right)$

$= \frac{1}{9} \div \frac{7}{40}$

$= \frac{40}{63}$

$\frac{4}{5} \div \left(\frac{1}{4} - \frac{3}{8}\right)$

$= \frac{4}{5} \div \left(-\frac{1}{8}\right)$

$= -\frac{32}{5}$

$= -6\frac{2}{5}$

$\left(\frac{1}{4}\right)^2 - \frac{3}{8}$

$= \frac{1}{16} - \frac{3}{8}$

$= -\frac{5}{16}$

$\left(-\frac{2}{9}\right) \times \left(\left(-\frac{2}{3}\right) - \frac{1}{2}\right)$

$= \left(-\frac{2}{9}\right) \times \left(-\frac{7}{6}\right)$

$= \frac{7}{27}$