

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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$$\begin{aligned} & \left(-\frac{7}{8}\right) - \left(-\frac{3}{8}\right) \times \left(-\frac{1}{4}\right) \\ &= \left(-\frac{7}{8}\right) - \frac{3}{32} \\ &= -\frac{31}{32} \end{aligned}$$

$$\begin{aligned} & \left(\left(-\frac{1}{4}\right) + \frac{7}{8}\right) \times \frac{3}{8} \\ &= \frac{5}{8} \times \frac{3}{8} \\ &= \frac{15}{64} \end{aligned}$$

$$\begin{aligned} & \frac{1}{9} \div \left(\left(-\frac{5}{8}\right) - \left(-\frac{4}{5}\right)\right) \\ &= \frac{1}{9} \div \frac{7}{40} \\ &= \frac{40}{63} \end{aligned}$$

$$\begin{aligned} & \frac{4}{5} \div \left(\frac{1}{4} - \frac{3}{8}\right) \\ &= \frac{4}{5} \div \left(-\frac{1}{8}\right) \\ &= -\frac{32}{5} \\ &= -6\frac{2}{5} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4}\right)^2 - \frac{3}{8} \\ &= \frac{1}{16} - \frac{3}{8} \\ &= -\frac{5}{16} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{2}{9}\right) \times \left(\left(-\frac{2}{3}\right) - \frac{1}{2}\right) \\ &= \left(-\frac{2}{9}\right) \times \left(-\frac{7}{6}\right) \\ &= \frac{7}{27} \end{aligned}$$