

# Order of Operations with Fractions (F)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\left(-\frac{8}{9}\right) - \frac{2}{5} \div \left(-\frac{1}{4}\right)$$

$$\frac{1}{2} \div \frac{2}{3} + \frac{1}{6}$$

$$\frac{1}{6} + \left(-\frac{1}{4}\right) \times \frac{2}{9}$$

$$\left(\frac{1}{6} + \frac{5}{6}\right) \times \left(-\frac{7}{9}\right)$$

$$\frac{2}{9} \div \left(-\frac{5}{9}\right) + \left(-\frac{7}{8}\right)$$

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(-\frac{8}{9}\right) - \frac{2}{5} \div \left(-\frac{1}{4}\right) \\ &= \frac{\left(-\frac{8}{9}\right) - \left(-\frac{8}{5}\right)}{\phantom{0}} \\ &= \frac{32}{45} \end{aligned}$$

$$\begin{aligned} & \frac{1}{2} \div \frac{2}{3} + \frac{1}{6} \\ &= \frac{3}{4} + \frac{1}{6} \\ &= \frac{11}{12} \end{aligned}$$

$$\begin{aligned} & \frac{1}{6} + \left(-\frac{1}{4}\right) \times \frac{2}{9} \\ &= \frac{\frac{1}{6} + \left(-\frac{1}{18}\right)}{\phantom{0}} \\ &= \frac{1}{9} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} + \frac{5}{6}\right) \times \left(-\frac{7}{9}\right) \\ &= 1 \times \left(-\frac{7}{9}\right) \\ &= -\frac{7}{9} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \div \left(-\frac{5}{9}\right) + \left(-\frac{7}{8}\right) \\ &= \frac{\left(-\frac{2}{5}\right) + \left(-\frac{7}{8}\right)}{\phantom{0}} \\ &= -\frac{51}{40} \\ &= -1\frac{11}{40} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \times \frac{7}{9} - \left(-\frac{7}{9}\right) \\ &= \frac{14}{81} - \left(-\frac{7}{9}\right) \\ &= \frac{77}{81} \end{aligned}$$