

## Order of Operations with Fractions (C)

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

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

Simplify each expression using the correct order of operations.

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

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

$$\left(\frac{5}{9} + \left(-\frac{2}{3}\right)\right) \times \left(-\frac{4}{5}\right)$$

$$\frac{3}{4} \times \left(\frac{4}{5} - \frac{2}{3}\right)$$

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

$$\frac{5}{6} \div \left(\left(-\frac{2}{5}\right) + \left(-\frac{4}{9}\right)\right)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(-\frac{3}{4}\right) - \left(\frac{1}{4}\right)^2 \\ &= \left(-\frac{3}{4}\right) - \frac{1}{16} \\ &= -\frac{13}{16} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \left(\frac{1}{2}\right)^2 \\ &= \frac{3}{4} \div \frac{1}{4} \\ &= 3 \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{9} + \left(-\frac{2}{3}\right)\right) \times \left(-\frac{4}{5}\right) \\ &= \left(-\frac{1}{9}\right) \times \left(-\frac{4}{5}\right) \\ &= \frac{4}{45} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left(\frac{4}{5} - \frac{2}{3}\right) \\ &= \frac{3}{4} \times \frac{2}{15} \\ &= \frac{1}{10} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} + \frac{5}{9} \div \left(-\frac{7}{8}\right) \\ &= \frac{2}{3} + \left(-\frac{40}{63}\right) \\ &= \frac{2}{63} \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \div \left(\left(-\frac{2}{5}\right) + \left(-\frac{4}{9}\right)\right) \\ &= \frac{5}{6} \div \left(-\frac{38}{45}\right) \\ &= -\frac{75}{76} \end{aligned}$$