

Order of Operations with Fractions (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(-\frac{1}{4}\right) + \frac{3}{4} \div \frac{7}{9}$$

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

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

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

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

$$\frac{5}{8} \times \left(\frac{1}{3} - \frac{1}{9}\right)$$

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$$\begin{aligned} & \left(-\frac{1}{4}\right) + \frac{3}{4} \div \frac{7}{9} \\ &= \left(-\frac{1}{4}\right) + \frac{27}{28} \\ &= \frac{5}{7} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{4}{9}\right) \div \frac{1}{9} - \frac{1}{2} \\ &= \frac{(-4) - \frac{1}{2}}{9} \\ &= -\frac{9}{2} \\ &= -4\frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \frac{5}{9} \div \left(\frac{-7}{9} - \frac{-7}{8}\right) \\ &= \frac{5}{9} \div \frac{7}{72} \\ &= \frac{40}{7} \\ &= 5\frac{5}{7} \end{aligned}$$

$$\begin{aligned} & \frac{8}{9} + \frac{5}{8} \div \left(-\frac{5}{9}\right) \\ &= \frac{8}{9} + \left(-\frac{9}{8}\right) \\ &= -\frac{17}{72} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{9} - \frac{8}{9}\right) \div \frac{1}{8} \\ &= \left(-\frac{2}{3}\right) \div \frac{1}{8} \\ &= -\frac{16}{3} \\ &= -5\frac{1}{3} \end{aligned}$$

$$\begin{aligned} & \frac{5}{8} \times \left(\frac{1}{3} - \frac{1}{9}\right) \\ &= \frac{5}{8} \times \frac{2}{9} \\ &= \frac{5}{36} \end{aligned}$$