

Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\frac{5}{6} \div \frac{1}{6} + \left(-\frac{8}{9}\right)$$

$$\left(-\frac{8}{9}\right) \div \left(-\frac{1}{3}\right) - \frac{1}{2}$$

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

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

$$\left(-\frac{5}{9}\right) \times \left(\frac{2}{5} - \left(-\frac{3}{8}\right)\right)$$

$$\left(\frac{1}{6} - \left(-\frac{8}{9}\right)\right) \div \frac{3}{4}$$

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$$\begin{aligned} & \frac{5}{6} \div \frac{1}{6} + \left(-\frac{8}{9}\right) \\ & = \frac{5 + \left(-\frac{8}{9}\right)}{6} \\ & = \frac{37}{9} \\ & = 4\frac{1}{9} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{8}{9}\right) \div \left(-\frac{1}{3}\right) - \frac{1}{2} \\ & = \frac{8}{3} - \frac{1}{2} \\ & = \frac{13}{6} \\ & = 2\frac{1}{6} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \times \frac{1}{5} - \left(-\frac{4}{5}\right) \\ & = \frac{2}{45} - \left(-\frac{4}{5}\right) \\ & = \frac{38}{45} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} - \left(-\frac{1}{2}\right) \div \frac{1}{9} \\ & = \frac{2}{9} - \left(-\frac{9}{2}\right) \\ & = \frac{85}{18} \\ & = 4\frac{13}{18} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{5}{9}\right) \times \left(\frac{2}{5} - \left(-\frac{3}{8}\right)\right) \\ & = \left(-\frac{5}{9}\right) \times \frac{31}{40} \\ & = -\frac{31}{72} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} - \left(-\frac{8}{9}\right)\right) \div \frac{3}{4} \\ & = \frac{19}{18} \div \frac{3}{4} \\ & = \frac{38}{27} \\ & = 1\frac{11}{27} \end{aligned}$$