

Order of Operations with Fractions (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(-\frac{2}{5}\right)^2 \div \left(-\frac{8}{9}\right) - \frac{1}{6}$$

$$\frac{5}{6} \div \left(\left(-\frac{5}{6}\right) - \left(-\frac{1}{2}\right)^2\right)$$

$$\left(-\frac{3}{4}\right) \div \left(-\frac{2}{3}\right) - \left(\frac{1}{6}\right)^2$$

$$\left(-\frac{3}{4}\right)^2 - \left(-\frac{1}{5}\right) \times \frac{1}{4}$$

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

$$\frac{1}{4} - \left(-\frac{3}{8}\right) \div \left(-\frac{1}{2}\right)^2$$

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$$\begin{aligned} & \left(\frac{-2}{5}\right)^2 \div \left(-\frac{8}{9}\right) - \frac{1}{6} \\ &= \frac{4}{25} \div \left(-\frac{8}{9}\right) - \frac{1}{6} \\ &= \frac{\left(-\frac{9}{50}\right) - \frac{1}{6}}{} \\ &= -\frac{26}{75} \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \div \left(\left(-\frac{5}{6}\right) - \left(\frac{-1}{2}\right)^2\right) \\ &= \frac{5}{6} \div \left(\left(-\frac{5}{6}\right) - \frac{1}{4}\right) \\ &= \frac{5}{6} \div \left(-\frac{13}{12}\right) \\ &= -\frac{10}{13} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{3}{4}\right) \div \left(-\frac{2}{3}\right) - \left(\frac{1}{6}\right)^2 \\ &= \frac{\left(-\frac{3}{4}\right) \div \left(-\frac{2}{3}\right) - \frac{1}{36}}{} \\ &= \frac{\frac{9}{8} - \frac{1}{36}}{} \\ &= \frac{79}{72} \\ &= 1\frac{7}{72} \end{aligned}$$

$$\begin{aligned} & \left(\frac{-3}{4}\right)^2 - \left(-\frac{1}{5}\right) \times \frac{1}{4} \\ &= \frac{9}{16} - \left(-\frac{1}{5}\right) \times \frac{1}{4} \\ &= \frac{9}{16} - \left(-\frac{1}{20}\right) \\ &= \frac{49}{80} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} \div \left(-\frac{1}{9}\right) + \left(\frac{1}{2}\right)^2 \\ &= \frac{2}{3} \div \left(-\frac{1}{9}\right) + \frac{1}{4} \\ &= \frac{(-6) + \frac{1}{4}}{} \\ &= -\frac{23}{4} \\ &= -5\frac{3}{4} \end{aligned}$$

$$\begin{aligned} & \frac{1}{4} - \left(-\frac{3}{8}\right) \div \left(\frac{-1}{2}\right)^2 \\ &= \frac{1}{4} - \left(-\frac{3}{8}\right) \div \frac{1}{4} \\ &= \frac{1}{4} - \left(-\frac{3}{2}\right) \\ &= \frac{7}{4} \\ &= 1\frac{3}{4} \end{aligned}$$