

Order of Operations with Fractions (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(-\frac{7}{9}\right) \times \frac{3}{8} - \left(\frac{5}{6}\right)^2$$

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

$$\frac{5}{8} + \left(\frac{3}{4}\right)^3 \times \left(-\frac{1}{3}\right)$$

$$\frac{1}{8} \div \left(\left(-\frac{5}{6}\right)^2 + \left(-\frac{7}{9}\right)\right)$$

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

$$\left(\left(-\frac{7}{8}\right) - \left(-\frac{5}{8}\right)\right)^2 \times \frac{1}{5}$$

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$$\begin{aligned} & \left(-\frac{7}{9}\right) \times \frac{3}{8} - \left(\frac{5}{6}\right)^2 \\ &= \left(-\frac{7}{9}\right) \times \frac{3}{8} - \frac{25}{36} \\ &= \left(-\frac{7}{24}\right) - \frac{25}{36} \\ &= -\frac{71}{72} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3}\right)^2 \div \left(\left(-\frac{2}{5}\right) - \left(-\frac{1}{2}\right)\right) \\ &= \left(\frac{2}{3}\right)^2 \div \frac{1}{10} \\ &= \frac{4}{9} \div \frac{1}{10} \\ &= \frac{40}{9} \\ &= 4\frac{4}{9} \end{aligned}$$

$$\begin{aligned} & \frac{5}{8} + \left(\frac{3}{4}\right)^3 \times \left(-\frac{1}{3}\right) \\ &= \frac{5}{8} + \frac{27}{64} \times \left(-\frac{1}{3}\right) \\ &= \frac{5}{8} + \left(-\frac{9}{64}\right) \\ &= \frac{31}{64} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \div \left(\left(-\frac{5}{6}\right)^2 + \left(-\frac{7}{9}\right)\right) \\ &= \frac{1}{8} \div \left(\frac{25}{36} + \left(-\frac{7}{9}\right)\right) \\ &= \frac{1}{8} \div \left(-\frac{1}{12}\right) \\ &= -\frac{3}{2} \\ &= -1\frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \frac{7}{8} - \left(-\frac{7}{8}\right) \div \left(-\frac{7}{9}\right)^2 \\ &= \frac{7}{8} - \left(-\frac{7}{8}\right) \div \frac{49}{81} \\ &= \frac{7}{8} - \left(-\frac{81}{56}\right) \\ &= \frac{65}{28} \\ &= 2\frac{9}{28} \end{aligned}$$

$$\begin{aligned} & \left(\left(-\frac{7}{8}\right) - \left(-\frac{5}{8}\right)\right)^2 \times \frac{1}{5} \\ &= \left(-\frac{1}{4}\right)^2 \times \frac{1}{5} \\ &= \frac{1}{16} \times \frac{1}{5} \\ &= \frac{1}{80} \end{aligned}$$