

Order of Operations with Fractions (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(-\frac{5}{6}\right) - \frac{4}{9} \times \left(\left(\left(-\frac{2}{9}\right) + \frac{2}{9}\right)^3 \div \frac{2}{5}\right)$$

$$\left(\frac{1}{6}\right)^2 - \frac{5}{6} \times \left(\left(-\frac{2}{3}\right) \div \left(\left(-\frac{1}{9}\right) + \left(-\frac{1}{6}\right)\right)\right)$$

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$$\begin{aligned}& \left(-\frac{5}{6}\right) - \frac{4}{9} \times \left(\left(\underline{-\frac{2}{9} + \frac{2}{9}}\right)^3 \div \frac{2}{5}\right) \\&= \left(-\frac{5}{6}\right) - \frac{4}{9} \times \left(\underline{0^3} \div \frac{2}{5}\right) \\&= \left(-\frac{5}{6}\right) - \frac{4}{9} \times \left(\underline{0 \div \frac{2}{5}}\right) \\&= \left(-\frac{5}{6}\right) - \underline{\frac{4}{9} \times 0} \\&= \underline{\left(-\frac{5}{6}\right) - 0} \\&= -\frac{5}{6}\end{aligned}$$

$$\begin{aligned}& \left(\frac{1}{6}\right)^2 - \frac{5}{6} \times \left(\left(-\frac{2}{3}\right) \div \left(\underline{\left(-\frac{1}{9}\right) + \left(-\frac{1}{6}\right)}\right)\right) \\&= \left(\frac{1}{6}\right)^2 - \frac{5}{6} \times \left(\underline{\left(-\frac{2}{3}\right) \div \left(-\frac{5}{18}\right)}\right) \\&= \underline{\left(\frac{1}{6}\right)^2} - \frac{5}{6} \times \frac{12}{5} \\&= \frac{1}{36} - \underline{\frac{5}{6} \times \frac{12}{5}} \\&= \underline{\frac{1}{36} - 2} \\&= -\frac{71}{36} \\&= -1\frac{35}{36}\end{aligned}$$