Order of Operations with Fractions (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(-\frac{2}{3}\right) \div \left(-\frac{7}{9}\right)^2 \times \left(\frac{4}{9} - \frac{5}{9} + \left(-\frac{1}{2}\right)\right)$

$\left(\frac{1}{4} - \left(-\frac{5}{6}\right) + \left(\frac{5}{6}\right)^2 \div \frac{1}{2}\right) \times \left(-\frac{4}{9}\right)$

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$\left(-\frac{2}{3}\right) \div \left(-\frac{7}{9}\right)^2 \times \left(\frac{4}{9} - \frac{5}{9} + \left(-\frac{1}{2}\right)\right)$

$= \left(-\frac{2}{3}\right) \div \left(-\frac{7}{9}\right)^2 \times \left(\left(-\frac{1}{9}\right) + \left(-\frac{1}{2}\right)\right)$

$= \left(-\frac{2}{3}\right) \div \left(-\frac{7}{9}\right)^2 \times \left(-\frac{11}{18}\right)$

$= \left(-\frac{2}{3}\right) \div \frac{49}{81} \times \left(-\frac{11}{18}\right)$

$= \left(-\frac{54}{49}\right) \times \left(-\frac{11}{18}\right)$

$= \frac{33}{49}$

$\left(\frac{1}{4} - \left(-\frac{5}{6}\right) + \left(\frac{5}{6}\right)^2 \div \frac{1}{2}\right) \times \left(-\frac{4}{9}\right)$

$= \left(\frac{1}{4} - \left(-\frac{5}{6}\right) + \frac{25}{36} \div \frac{1}{2}\right) \times \left(-\frac{4}{9}\right)$

$= \left(\frac{1}{4} - \left(-\frac{5}{6}\right) + \frac{25}{18}\right) \times \left(-\frac{4}{9}\right)$

$= \left(\frac{13}{12} + \frac{25}{18}\right) \times \left(-\frac{4}{9}\right)$

$= \frac{89}{36} \times \left(-\frac{4}{9}\right)$

$= -\frac{89}{81}$

$= -1\frac{8}{81}$