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

$= \underline{\left(-\frac{7}{9}\right) \times \frac{3}{8}} - \frac{25}{36}$

$= \underline{\left(-\frac{7}{24}\right) - \frac{25}{36}}$

$= -\frac{71}{72}$

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

$= \underline{\left(\frac{2}{3}\right)^2} \div \frac{1}{10}$

$= \underline{\frac{4}{9} \div \frac{1}{10}}$

$= \frac{40}{9}$

$= 4\frac{4}{9}$

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

$= \frac{5}{8} + \underline{\frac{27}{64} \times \left(-\frac{1}{3}\right)}$

$= \underline{\frac{5}{8} + \left(-\frac{9}{64}\right)}$

$= \frac{31}{64}$

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

$= \frac{1}{8} \div \underline{\left(\frac{25}{36} + \left(-\frac{7}{9}\right)\right)}$

$= \underline{\frac{1}{8} \div \left(-\frac{1}{12}\right)}$

$= -\frac{3}{2}$

$= -1\frac{1}{2}$

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

$= \frac{7}{8} - \underline{\left(-\frac{7}{8}\right) \div \frac{49}{81}}$

$= \underline{\frac{7}{8} - \left(-\frac{81}{56}\right)}$

$= \frac{65}{28}$

$= 2\frac{9}{28}$

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

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

$= \underline{\frac{1}{16} \times \frac{1}{5}}$

$= \frac{1}{80}$