Order of Operations with Fractions (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$\left(\frac{3}{4}\right)^3 \times \frac{5}{9} - \frac{7}{8}$

$\left(-\frac{7}{8}\right) \times \left(\frac{4}{5} - \left(\frac{2}{3}\right)^2\right)$

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

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

$\left(-\frac{8}{9}\right) + \frac{1}{9} \div \left(-\frac{1}{4}\right)^3$

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Simplify each expression using the correct order of operations.

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

$= \frac{16}{81} \div \left(-\frac{4}{5}\right) - \frac{2}{3}$

$= \left(-\frac{20}{81}\right) - \frac{2}{3}$

$= -\frac{74}{81}$

$\left(\frac{3}{4}\right)^3 \times \frac{5}{9} - \frac{7}{8}$

$= \frac{27}{64} \times \frac{5}{9} - \frac{7}{8}$

$= \frac{15}{64} - \frac{7}{8}$

$= -\frac{41}{64}$

$\left(-\frac{7}{8}\right) \times \left(\frac{4}{5} - \left(\frac{2}{3}\right)^2\right)$

$= \left(-\frac{7}{8}\right) \times \left(\frac{4}{5} - \frac{4}{9}\right)$

$= \left(-\frac{7}{8}\right) \times \frac{16}{45}$

$= -\frac{14}{45}$

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

$= \frac{4}{9} \times \left(-\frac{7}{8}\right) + \left(-\frac{2}{5}\right)$

$= \left(-\frac{7}{18}\right) + \left(-\frac{2}{5}\right)$

$= -\frac{71}{90}$

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

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

$= \frac{49}{36} \div \left(-\frac{5}{9}\right)$

$= -\frac{49}{20}$

$= -2\frac{9}{20}$

$\left(-\frac{8}{9}\right) + \frac{1}{9} \div \left(-\frac{1}{4}\right)^3$

$= \left(-\frac{8}{9}\right) + \frac{1}{9} \div \left(-\frac{1}{64}\right)$

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

$= -8$