Order of Operations with Fractions (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\frac{1}{3} \times \left(\left(\frac{1}{9} \right)^2 \div \left(-\frac{8}{9} \right) + \left(-\frac{3}{8} \right) \right)$$

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

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

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

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$\frac{1}{3} \times \left(\left(\frac{1}{9} \right)^2 \div \left(-\frac{8}{9} \right) + \left(-\frac{3}{8} \right) \right)$

$= \frac{1}{3} \times \left(\frac{1}{81} \div \left(-\frac{8}{9} \right) + \left(-\frac{3}{8} \right) \right)$

$= \frac{1}{3} \times \left(\left(-\frac{1}{72} \right) + \left(-\frac{3}{8} \right) \right)$

$= \frac{1}{3} \times \left(-\frac{7}{18} \right)$

$= -\frac{7}{54}$

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

$= \left(\frac{3}{5} \right)^2 \div \left(\frac{1}{5} + \left(-\frac{8}{45} \right) \right)$

$= \left(\frac{3}{5} \right)^2 \div \frac{1}{45}$

$= \frac{9}{25} \div \frac{1}{45}$

$= \frac{81}{5}$

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

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

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

$= \frac{2}{9} \div \frac{1}{5} \times \left(-\frac{21}{25} \right)$

$= \frac{10}{9} \times \left(-\frac{21}{25} \right)$

$= -\frac{14}{15}$

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

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

$= \frac{22}{45} \times \left(\frac{2}{9} + \frac{7}{9} \right)$

$= \frac{22}{45} \times 1$

$= \frac{22}{45}$