Order of Operations with Fractions (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\frac{1}{3} - \left(-\frac{1}{6}\right)\right)^2 \div \left(\left(-\frac{2}{3}\right) + \left(-\frac{1}{2}\right)\right) \times \frac{1}{4}$

$\left(\left(-\frac{2}{5}\right) - \left(-\frac{1}{5}\right)\right)^2 \times \left(\left(-\frac{3}{4}\right) + \left(-\frac{2}{9}\right) \div \frac{8}{9}\right)$

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Simplify each expression using the correct order of operations.

$\left(\frac{1}{3}-\left(-\frac{1}{6}\right)\right)^2 \div \left(\left(-\frac{2}{3}\right)+\left(-\frac{1}{2}\right)\right) \times \frac{1}{4}$

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

$= \left(\frac{1}{2}\right)^2 \div \left(-\frac{7}{6}\right) \times \frac{1}{4}$

$= \frac{1}{4} \div \left(-\frac{7}{6}\right) \times \frac{1}{4}$

$= \left(-\frac{3}{14}\right) \times \frac{1}{4}$

$= -\frac{3}{56}$

$\left(\left(-\frac{2}{5}\right)-\left(-\frac{1}{5}\right)\right)^2 \times \left(\left(-\frac{3}{4}\right)+\left(-\frac{2}{9}\right) \div \frac{8}{9}\right)$

$= \left(-\frac{1}{5}\right)^2 \times \left(\left(-\frac{3}{4}\right)+\left(-\frac{2}{9}\right) \div \frac{8}{9}\right)$

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

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

$= \frac{1}{25} \times (-1)$

$= -\frac{1}{25}$