Order of Operations with Fractions (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(-\frac{1}{9}\right)-\left(-\frac{3}{5}\right)+\left(-\frac{2}{5}\right)\right)\times\left(\left(-\frac{3}{4}\right)^{2}\div\left(-\frac{1}{6}\right)\right)$

$\left(\left(\frac{1}{6}+\frac{1}{4}\right)\times\frac{3}{4}\right)\div\left(\frac{5}{9}\right)^{2}-\frac{1}{5}$

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$\left(\left(-\frac{1}{9}\right)-\left(-\frac{3}{5}\right)+\left(-\frac{2}{5}\right)\right)\times\left(\left(-\frac{3}{4}\right)^2\div\left(-\frac{1}{6}\right)\right)$

$=\left(\frac{22}{45}+\left(-\frac{2}{5}\right)\right)\times\left(\left(-\frac{3}{4}\right)^2\div\left(-\frac{1}{6}\right)\right)$

$=\frac{4}{45}\times\left(\left(-\frac{3}{4}\right)^2\div\left(-\frac{1}{6}\right)\right)$

$=\frac{4}{45}\times\left(\frac{9}{16}\div\left(-\frac{1}{6}\right)\right)$

$=\frac{4}{45}\times\left(-\frac{27}{8}\right)$

$=-\frac{3}{10}$

$\left(\left(\frac{1}{6}+\frac{1}{4}\right)\times\frac{3}{4}\right)\div\left(\frac{5}{9}\right)^2-\frac{1}{5}$

$=\left(\frac{5}{12}\times\frac{3}{4}\right)\div\left(\frac{5}{9}\right)^2-\frac{1}{5}$

$=\frac{5}{16}\div\left(\frac{5}{9}\right)^2-\frac{1}{5}$

$=\frac{5}{16}\div\frac{25}{81}-\frac{1}{5}$

$=\frac{81}{80}-\frac{1}{5}$

$=\frac{13}{16}$