Order of Operations with Fractions (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

$= \frac{4}{25} \div \left(-\frac{8}{9}\right) - \frac{1}{6}$

$= \left(-\frac{9}{50}\right) - \frac{1}{6}$

$= -\frac{26}{75}$

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

$= \frac{5}{6} \div \left(\left(-\frac{5}{6}\right) - \frac{1}{4}\right)$

$= \frac{5}{6} \div \left(-\frac{13}{12}\right)$

$= -\frac{10}{13}$

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

$= \left(-\frac{3}{4}\right) \div \left(-\frac{2}{3}\right) - \frac{1}{36}$

$= \frac{9}{8} - \frac{1}{36}$

$= \frac{79}{72}$

$= 1\frac{7}{72}$

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

$= \frac{9}{16} - \left(-\frac{1}{5}\right) \times \frac{1}{4}$

$= \frac{9}{16} - \left(-\frac{1}{20}\right)$

$= \frac{49}{80}$

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

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

$= (-6) + \frac{1}{4}$

$= -\frac{23}{4}$

$= -5\frac{3}{4}$

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

$= \frac{1}{4} - \left(-\frac{3}{8}\right) \div \frac{1}{4}$

$= \frac{1}{4} - \left(-\frac{3}{2}\right)$

$= \frac{7}{4}$

$= 1\frac{3}{4}$