Order of Operations with Fractions (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$\left(\frac{7}{8} \times \left(\frac{2}{3}\right)^2\right) \div \frac{3}{5} - \frac{4}{9}$

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

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

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Simplify each expression using the correct order of operations.

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

$= \left(\frac{3}{4} - \frac{1}{16}\right) \times \frac{8}{9} \div \frac{3}{8}$

$= \frac{11}{16} \times \frac{8}{9} \div \frac{3}{8}$

$= \frac{11}{18} \div \frac{3}{8}$

$= \frac{44}{27}$

$= 1\frac{17}{27}$

$\left(\frac{7}{8} \times \left(\frac{2}{3}\right)^2\right) \div \frac{3}{5} - \frac{4}{9}$

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

$= \frac{7}{18} \div \frac{3}{5} - \frac{4}{9}$

$= \frac{35}{54} - \frac{4}{9}$

$= \frac{11}{54}$

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

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

$= \left(\frac{17}{15} - \frac{4}{9}\right) \div \frac{1}{9}$

$= \frac{31}{45} \div \frac{1}{9}$

$= \frac{31}{5}$

$= 6\frac{1}{5}$

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

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

$= \left(\frac{2}{3}\right)^3 \times \frac{1}{2}$

$= \frac{8}{27} \times \frac{1}{2}$

$= \frac{4}{27}$