Order of Operations with Fractions (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$\left(\frac{2}{9} + \left(\frac{1}{6}\right)^2\right) \div \left(\frac{2}{5} \times \frac{3}{8}\right)$

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

$\left(\frac{5}{9} \div \frac{4}{9}\right) \times \frac{7}{8} + \left(\frac{1}{4}\right)^3$

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Simplify each expression using the correct order of operations.

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

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

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

$= \frac{1}{5} \div \frac{1}{64}$

$= \frac{64}{5}$

$= 12\frac{4}{5}$

$\left(\frac{2}{9} + \left(\frac{1}{6}\right)^2\right) \div \left(\frac{2}{5} \times \frac{3}{8}\right)$

$= \left(\frac{2}{9} + \frac{1}{36}\right) \div \left(\frac{2}{5} \times \frac{3}{8}\right)$

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

$= \frac{1}{4} \div \frac{3}{20}$

$= \frac{5}{3}$

$= 1\frac{2}{3}$

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

$= \frac{2}{3} \div \left(\frac{3}{8} + \frac{27}{64} \times \frac{4}{9}\right)$

$= \frac{2}{3} \div \left(\frac{3}{8} + \frac{3}{16}\right)$

$= \frac{2}{3} \div \frac{9}{16}$

$= \frac{32}{27}$

$= 1\frac{5}{27}$

$\left(\frac{5}{9} \div \frac{4}{9}\right) \times \frac{7}{8} + \left(\frac{1}{4}\right)^3$

$= \frac{5}{4} \times \frac{7}{8} + \left(\frac{1}{4}\right)^3$

$= \frac{5}{4} \times \frac{7}{8} + \frac{1}{64}$

$= \frac{35}{32} + \frac{1}{64}$

$= \frac{71}{64}$

$= 1\frac{7}{64}$