Order of Operations with Fractions (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

$\left(\frac{7}{8} - \frac{3}{8}\right) \times \left(\frac{1}{2}\right)^2$

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

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

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

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Simplify each expression using the correct order of operations.

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

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

$= \frac{3}{5} \div \frac{3}{8}$

$= \frac{8}{5}$

$= 1\frac{3}{5}$

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

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

$= \frac{5}{9} \times \frac{3}{8}$

$= \frac{5}{24}$

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

$= \frac{2}{5} - \frac{1}{64} \div \frac{1}{4}$

$= \frac{2}{5} - \frac{1}{16}$

$= \frac{27}{80}$

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

$= \frac{1}{3} + \frac{3}{4} \div \frac{1}{8}$

$= \frac{1}{3} + 6$

$= \frac{19}{3}$

$= 6\frac{1}{3}$

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

$= \frac{1}{9} \times \frac{2}{5} + \frac{2}{3}$

$= \frac{2}{45} + \frac{2}{3}$

$= \frac{32}{45}$

$\left(\frac{7}{8} - \frac{3}{8}\right) \times \left(\frac{1}{2}\right)^2$

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

$= \frac{1}{2} \times \frac{1}{4}$

$= \frac{1}{8}$

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

$= \frac{1}{9} \div \frac{3}{4} - \frac{1}{27}$

$= \frac{4}{27} - \frac{1}{27}$

$= \frac{1}{9}$

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

$= \frac{7}{8} \div \frac{27}{64} + \frac{2}{9}$

$= \frac{56}{27} + \frac{2}{9}$

$= \frac{62}{27}$

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

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

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

$= \frac{8}{27} \div \frac{1}{4}$

$= \frac{32}{27}$

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