Order of Operations with Fractions (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

$\left(\frac{2}{5} + \frac{4}{5}\right)^2 \div \frac{8}{9}$

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

$\frac{7}{9} \times \left(\frac{3}{8} + \frac{1}{8}\right)^2$

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

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

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

$= \frac{3}{4} \times \frac{7}{8} - \frac{9}{64}$

$= \frac{21}{32} - \frac{9}{64}$

$= \frac{33}{64}$

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

$= \frac{37}{24} \times \left(\frac{1}{2}\right)^2$

$= \frac{37}{24} \times \frac{1}{4}$

$= \frac{37}{96}$

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

$= \frac{8}{9} + \frac{2}{5} \times \frac{4}{9}$

$= \frac{8}{9} + \frac{8}{45}$

$= \frac{16}{15}$

$= 1\frac{1}{15}$

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

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

$= \frac{1}{3} \times \frac{16}{9}$

$= \frac{16}{27}$

$\left(\frac{2}{5} + \frac{4}{5}\right)^2 \div \frac{8}{9}$

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

$= \frac{36}{25} \div \frac{8}{9}$

$= \frac{81}{50}$

$= 1\frac{31}{50}$

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

$= \frac{5}{6} - \frac{1}{5} \div \frac{9}{16}$

$= \frac{5}{6} - \frac{16}{45}$

$= \frac{43}{90}$

$\frac{7}{9} \times \left(\frac{3}{8} + \frac{1}{8}\right)^2$

$= \frac{7}{9} \times \left(\frac{1}{2}\right)^2$

$= \frac{7}{9} \times \frac{1}{4}$

$= \frac{7}{36}$

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

$= \frac{3}{4} \times \left(\frac{4}{5} - \frac{9}{25}\right)$

$= \frac{3}{4} \times \frac{11}{25}$

$= \frac{33}{100}$

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

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

$= \frac{1}{4} \div \frac{2}{3}$

$= \frac{3}{8}$