Order of Operations with Fractions (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$\left(\frac{2}{9} + \frac{4}{9}\right) \div \left(\frac{5}{6} - \frac{7}{9}\right)$

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

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

$\left(\frac{1}{6} + \frac{2}{3} - \frac{4}{9}\right) \times \frac{3}{8}$

$\frac{3}{8} \div \left(\frac{3}{4} + \frac{3}{5} - \frac{2}{3}\right)$

$\left(\frac{1}{4} \div \frac{1}{2}\right) \times \frac{5}{6} + \frac{4}{5}$

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

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Simplify each expression using the correct order of operations.

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

$= \frac{7}{9} \times \left(\frac{7}{8} - \frac{7}{8} \right)$

$= \frac{7}{9} \times 0$

$= 0$

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

$= \frac{2}{9} \times \left(\frac{1}{5} + \frac{1}{4} \right)$

$= \frac{2}{9} \times \frac{9}{20}$

$= \frac{1}{10}$

$\left(\frac{2}{9} + \frac{4}{9} \right) \div \left(\frac{5}{6} - \frac{7}{9} \right)$

$= \frac{2}{3} \div \left(\frac{5}{6} - \frac{7}{9} \right)$

$= \frac{2}{3} \div \frac{1}{18}$

$= 12$

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

$= \frac{3}{4} \times \left(\frac{31}{72} + \frac{1}{3} \right)$

$= \frac{3}{4} \times \frac{55}{72}$

$= \frac{55}{96}$

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

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

$= \frac{3}{4} \div \frac{11}{24}$

$= \frac{18}{11}$

$= 1\frac{7}{11}$

$\left(\frac{1}{6} + \frac{2}{3} - \frac{4}{9} \right) \times \frac{3}{8}$

$= \left(\frac{5}{6} - \frac{4}{9} \right) \times \frac{3}{8}$

$= \frac{7}{18} \times \frac{3}{8}$

$= \frac{7}{48}$

$\frac{3}{8} \div \left(\frac{3}{4} + \frac{3}{5} - \frac{2}{3} \right)$

$= \frac{3}{8} \div \left(\frac{27}{20} - \frac{2}{3} \right)$

$= \frac{3}{8} \div \frac{41}{60}$

$= \frac{45}{82}$

$\left(\frac{1}{4} \div \frac{1}{2} \right) \times \frac{5}{6} + \frac{4}{5}$

$= \frac{1}{2} \times \frac{5}{6} + \frac{4}{5}$

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

$= \frac{73}{60}$

$= 1\frac{13}{60}$

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

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

$= \frac{1}{8} \times \frac{15}{8}$

$= \frac{15}{64}$