Order of Operations with Fractions (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\frac{1}{5} \div \left(\frac{1}{8} + \frac{7}{8} - \frac{3}{5}\right)\right) \times \frac{2}{9}$

$\left(\frac{2}{5} \times \frac{5}{9} - \frac{1}{8}\right) \div \frac{7}{8} + \frac{1}{4}$

$\left(\frac{2}{3} + \frac{7}{9}\right) \times \left(\frac{7}{8} - \frac{1}{4}\right) \div \frac{1}{2}$

$\left(\frac{1}{4} + \frac{3}{8} \times \frac{8}{9} - \frac{1}{5}\right) \div \frac{1}{6}$

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Simplify each expression using the correct order of operations.

$\left(\frac{1}{5} \div \left(\frac{1}{8} + \frac{7}{8} - \frac{3}{5}\right)\right) \times \frac{2}{9}$

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

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

$= \frac{1}{2} \times \frac{2}{9}$

$= \frac{1}{9}$

$\left(\frac{2}{5} \times \frac{5}{9} - \frac{1}{8}\right) \div \frac{7}{8} + \frac{1}{4}$

$= \left(\frac{2}{9} - \frac{1}{8}\right) \div \frac{7}{8} + \frac{1}{4}$

$= \frac{7}{72} \div \frac{7}{8} + \frac{1}{4}$

$= \frac{1}{9} + \frac{1}{4}$

$= \frac{13}{36}$

$\left(\frac{2}{3} + \frac{7}{9}\right) \times \left(\frac{7}{8} - \frac{1}{4}\right) \div \frac{1}{2}$

$= \frac{13}{9} \times \left(\frac{7}{8} - \frac{1}{4}\right) \div \frac{1}{2}$

$= \frac{13}{9} \times \frac{5}{8} \div \frac{1}{2}$

$= \frac{65}{72} \div \frac{1}{2}$

$= \frac{65}{36}$

$= 1\frac{29}{36}$

$\left(\frac{1}{4} + \frac{3}{8} \times \frac{8}{9} - \frac{1}{5}\right) \div \frac{1}{6}$

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

$= \left(\frac{7}{12} - \frac{1}{5}\right) \div \frac{1}{6}$

$= \frac{23}{60} \div \frac{1}{6}$

$= \frac{23}{10}$

$= 2\frac{3}{10}$