| Order of Operations with Fractions (F) |

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\frac{1}{2} \times \left(\frac{7}{9} \div \frac{1}{6} - \frac{5}{6} + \frac{3}{4}\right)$$

$$\frac{8}{9} \div \frac{1}{5} \times \left(\frac{4}{5} + \frac{1}{3} - \frac{2}{3}\right)$$

$$\left(\frac{5}{9} + \frac{4}{9}\right) \times \frac{7}{9} \div \frac{3}{5} - \frac{1}{2}$$

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Simplify each expression using the correct order of operations.

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

$= \dfrac{1}{4} \div \left(\dfrac{37}{24} - \dfrac{1}{8} \right) \times \dfrac{2}{9}$

$= \dfrac{1}{4} \div \dfrac{17}{12} \times \dfrac{2}{9}$

$= \dfrac{3}{17} \times \dfrac{2}{9}$

$= \dfrac{2}{51}$

$\dfrac{1}{2} \times \left(\dfrac{7}{9} \div \dfrac{1}{6} - \dfrac{5}{6} + \dfrac{3}{4} \right)$

$= \dfrac{1}{2} \times \left(\dfrac{14}{3} - \dfrac{5}{6} + \dfrac{3}{4} \right)$

$= \dfrac{1}{2} \times \left(\dfrac{23}{6} + \dfrac{3}{4} \right)$

$= \dfrac{1}{2} \times \dfrac{55}{12}$

$= \dfrac{55}{24}$

$= 2\dfrac{7}{24}$

$\dfrac{8}{9} \div \dfrac{1}{5} \times \left(\dfrac{4}{5} + \dfrac{1}{3} - \dfrac{2}{3} \right)$

$= \dfrac{8}{9} \div \dfrac{1}{5} \times \left(\dfrac{17}{15} - \dfrac{2}{3} \right)$

$= \dfrac{8}{9} \div \dfrac{1}{5} \times \dfrac{7}{15}$

$= \dfrac{40}{9} \times \dfrac{7}{15}$

$= \dfrac{56}{27}$

$= 2\dfrac{2}{27}$

$\left(\dfrac{5}{9} + \dfrac{4}{9} \right) \times \dfrac{7}{9} \div \dfrac{3}{5} - \dfrac{1}{2}$

$= 1 \times \dfrac{7}{9} \div \dfrac{3}{5} - \dfrac{1}{2}$

$= \dfrac{7}{9} \div \dfrac{3}{5} - \dfrac{1}{2}$

$= \dfrac{35}{27} - \dfrac{1}{2}$

$= \dfrac{43}{54}$