

Order of Operations with Fractions (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\frac{3}{4} \times \left(\frac{2}{5} - \frac{1}{6}\right) \div \frac{1}{2} + \frac{1}{8}$$

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

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

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$$\begin{aligned} & \left(\frac{5}{8} + \frac{3}{8} - \frac{3}{4} \right) \times \left(\frac{2}{5} \div \frac{1}{8} \right) \\ &= \left(\frac{1-3}{4} \right) \times \left(\frac{2}{5} \div \frac{1}{8} \right) \\ &= \frac{1}{4} \times \left(\frac{2}{5} \div \frac{1}{8} \right) \\ &= \frac{1}{4} \times \frac{16}{5} \\ &= \frac{4}{5} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left(\frac{2}{5} - \frac{1}{6} \right) \div \frac{1}{2} + \frac{1}{8} \\ &= \frac{3}{4} \times \frac{7}{30} \div \frac{1}{2} + \frac{1}{8} \\ &= \frac{7}{40} \div \frac{1}{2} + \frac{1}{8} \\ &= \frac{7}{20} + \frac{1}{8} \\ &= \frac{19}{40} \end{aligned}$$

$$\begin{aligned} & \frac{2}{5} \div \left(\left(\frac{1}{5} - \frac{1}{9} + \frac{4}{9} \right) \times \frac{1}{2} \right) \\ &= \frac{2}{5} \div \left(\left(\frac{4}{45} + \frac{4}{9} \right) \times \frac{1}{2} \right) \\ &= \frac{2}{5} \div \left(\frac{8}{15} \times \frac{1}{2} \right) \\ &= \frac{2}{5} \div \frac{4}{15} \\ &= \frac{3}{2} \\ &= 1\frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \left(\frac{7}{9} + \frac{2}{9} \right) \div \frac{3}{5} \times \frac{2}{3} - \frac{1}{3} \\ &= \frac{1 \div \frac{3}{5}}{\frac{3}{5}} \times \frac{2}{3} - \frac{1}{3} \\ &= \frac{5}{3} \times \frac{2}{3} - \frac{1}{3} \\ &= \frac{10}{9} - \frac{1}{3} \\ &= \frac{7}{9} \end{aligned}$$