

Order of Operations with Fractions (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\frac{5}{6} + \frac{1}{3} - \frac{7}{8} \right) \div \frac{8}{9}$$

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

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

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

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

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

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

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

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$$\begin{aligned} & \frac{1}{8} \div \left(\frac{3}{4} + \frac{5}{6} - \frac{2}{3} \right) \\ &= \frac{1}{8} \div \left(\frac{19}{12} - \frac{2}{3} \right) \\ &= \frac{1}{8} \div \frac{11}{12} \\ &= \frac{3}{22} \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{6} + \frac{1}{3} - \frac{7}{8} \right) \div \frac{8}{9} \\ &= \left(\frac{7}{6} - \frac{7}{8} \right) \div \frac{8}{9} \\ &= \frac{7}{24} \div \frac{8}{9} \\ &= \frac{21}{64} \end{aligned}$$

$$\begin{aligned} & \left(\frac{4}{9} - \frac{5}{9} \times \frac{1}{4} \right) \div \frac{7}{8} \\ &= \left(\frac{4}{9} - \frac{5}{36} \right) \div \frac{7}{8} \\ &= \frac{11}{36} \div \frac{7}{8} \\ &= \frac{22}{63} \end{aligned}$$

$$\begin{aligned} & \frac{1}{3} \div \left(\left(\frac{4}{5} + \frac{4}{9} \right) \times \frac{5}{6} \right) \\ &= \frac{1}{3} \div \left(\frac{56}{45} \times \frac{5}{6} \right) \\ &= \frac{1}{3} \div \frac{28}{27} \\ &= \frac{9}{28} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3} + \frac{5}{6} - \frac{5}{9} \right) \div \frac{1}{4} \\ &= \left(\frac{3}{2} - \frac{5}{9} \right) \div \frac{1}{4} \\ &= \frac{17}{18} \div \frac{1}{4} \\ &= \frac{34}{9} \\ &= 3\frac{7}{9} \end{aligned}$$

$$\begin{aligned} & \frac{1}{3} \times \left(\frac{2}{3} - \frac{1}{6} + \frac{4}{5} \right) \\ &= \frac{1}{3} \times \left(\frac{1}{2} + \frac{4}{5} \right) \\ &= \frac{1}{3} \times \frac{13}{10} \\ &= \frac{13}{30} \end{aligned}$$

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

$$\begin{aligned} & \left(\frac{5}{9} + \frac{1}{8} \div \frac{1}{4} \right) \times \frac{8}{9} \\ &= \left(\frac{5}{9} + \frac{1}{2} \right) \times \frac{8}{9} \\ &= \frac{19}{18} \times \frac{8}{9} \\ &= \frac{76}{81} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} - \frac{2}{5} \times \left(\frac{1}{5} \div \frac{3}{5} \right) \\ &= \frac{3}{4} - \frac{2}{5} \times \frac{1}{3} \\ &= \frac{3}{4} - \frac{2}{15} \\ &= \frac{37}{60} \end{aligned}$$