

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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$$\begin{aligned} & \frac{7}{9} \times \left(\frac{3}{8} + \frac{1}{2} - \frac{7}{8} \right) \\ &= \frac{7}{9} \times \left(\frac{7}{8} - \frac{7}{8} \right) \\ &= \frac{7}{9} \times 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \times \left(\frac{3}{5} - \frac{2}{5} + \frac{1}{4} \right) \\ &= \frac{2}{9} \times \left(\frac{1}{5} + \frac{1}{4} \right) \\ &= \frac{2}{9} \times \frac{9}{20} \\ &= \frac{1}{10} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{9} + \frac{4}{9} \right) \div \left(\frac{5}{6} - \frac{7}{9} \right) \\ &= \frac{2}{3} \div \left(\frac{5}{6} - \frac{7}{9} \right) \\ &= \frac{2}{3} \div \frac{1}{18} \\ &= 12 \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left(\frac{7}{8} - \frac{4}{9} + \frac{1}{3} \right) \\ &= \frac{3}{4} \times \left(\frac{31}{72} + \frac{1}{3} \right) \\ &= \frac{3}{4} \times \frac{55}{72} \\ &= \frac{55}{96} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \left(\frac{8}{9} + \frac{4}{9} - \frac{7}{8} \right) \\ &= \frac{3}{4} \div \left(\frac{4}{3} - \frac{7}{8} \right) \\ &= \frac{3}{4} \div \frac{11}{24} \\ &= \frac{18}{11} \\ &= 1\frac{7}{11} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} + \frac{2}{3} - \frac{4}{9} \right) \times \frac{3}{8} \\ &= \left(\frac{5}{6} - \frac{4}{9} \right) \times \frac{3}{8} \\ &= \frac{7}{18} \times \frac{3}{8} \\ &= \frac{7}{48} \end{aligned}$$

$$\begin{aligned} & \frac{3}{8} \div \left(\frac{3}{4} + \frac{3}{5} - \frac{2}{3} \right) \\ &= \frac{3}{8} \div \left(\frac{27}{20} - \frac{2}{3} \right) \\ &= \frac{3}{8} \div \frac{41}{60} \\ &= \frac{45}{82} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4} \div \frac{1}{2} \right) \times \frac{5}{6} + \frac{4}{5} \\ &= \frac{1}{2} \times \frac{5}{6} + \frac{4}{5} \\ &= \frac{5}{12} + \frac{4}{5} \\ &= \frac{73}{60} \\ &= 1\frac{13}{60} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \times \left(\frac{1}{3} \div \frac{2}{9} + \frac{3}{8} \right) \\ &= \frac{1}{8} \times \left(\frac{3}{2} + \frac{3}{8} \right) \\ &= \frac{1}{8} \times \frac{15}{8} \\ &= \frac{15}{64} \end{aligned}$$