

Order of Operations with Fractions (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\frac{2}{9} \div \left(\frac{7}{8} - \frac{1}{6} \times \frac{2}{3} + \frac{1}{8}\right)$$

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

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

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$$\begin{aligned} & \left(\frac{3}{4} \times \frac{4}{5} + \frac{3}{5} - \frac{7}{9} \right) \div \frac{2}{9} \\ &= \left(\frac{3}{5} + \frac{3}{5} - \frac{7}{9} \right) \div \frac{2}{9} \\ &= \left(\frac{6}{5} - \frac{7}{9} \right) \div \frac{2}{9} \\ &= \frac{19}{45} \div \frac{2}{9} \\ &= \frac{19}{10} \\ &= 1\frac{9}{10} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \div \left(\frac{7}{8} - \frac{1}{6} \times \frac{2}{3} + \frac{1}{8} \right) \\ &= \frac{2}{9} \div \left(\frac{7}{8} - \frac{1}{9} + \frac{1}{8} \right) \\ &= \frac{2}{9} \div \left(\frac{55}{72} + \frac{1}{8} \right) \\ &= \frac{2}{9} \div \frac{8}{9} \\ &= \frac{1}{4} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} \div \frac{2}{9} + \frac{1}{8} - \frac{3}{4} \right) \times \frac{8}{9} \\ &= \left(\frac{9}{4} + \frac{1}{8} - \frac{3}{4} \right) \times \frac{8}{9} \\ &= \left(\frac{19}{8} - \frac{3}{4} \right) \times \frac{8}{9} \\ &= \frac{13}{8} \times \frac{8}{9} \\ &= \frac{13}{9} \\ &= 1\frac{4}{9} \end{aligned}$$

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