

Order of Operations with Fractions (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\frac{7}{8} \times \frac{4}{5} + \frac{3}{4} - \frac{1}{4}\right) \div \frac{7}{9}$$

$$\left(\frac{3}{4} + \frac{2}{9} - \frac{8}{9} \times \frac{7}{8}\right) \div \frac{1}{6}$$

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

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

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$$\begin{aligned} & \left(\frac{7}{8} \times \frac{4}{5} + \frac{3}{4} - \frac{1}{4} \right) \div \frac{7}{9} \\ &= \left(\frac{7}{10} + \frac{3}{4} - \frac{1}{4} \right) \div \frac{7}{9} \\ &= \left(\frac{29}{20} - \frac{1}{4} \right) \div \frac{7}{9} \\ &= \frac{6}{5} \div \frac{7}{9} \\ &= \frac{54}{35} \\ &= 1\frac{19}{35} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4} + \frac{2}{9} - \frac{8}{9} \times \frac{7}{8} \right) \div \frac{1}{6} \\ &= \left(\frac{3}{4} + \frac{2}{9} - \frac{7}{9} \right) \div \frac{1}{6} \\ &= \left(\frac{35}{36} - \frac{7}{9} \right) \div \frac{1}{6} \\ &= \frac{7}{36} \div \frac{1}{6} \\ &= \frac{7}{6} \\ &= 1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} & \left(\left(\frac{3}{4} + \frac{1}{5} - \frac{1}{2} \right) \times \frac{5}{6} \right) \div \frac{4}{9} \\ &= \left(\left(\frac{19}{20} - \frac{1}{2} \right) \times \frac{5}{6} \right) \div \frac{4}{9} \\ &= \left(\frac{9}{20} \times \frac{5}{6} \right) \div \frac{4}{9} \\ &= \frac{3}{8} \div \frac{4}{9} \\ &= \frac{27}{32} \end{aligned}$$

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