

## Order of Operations with Fractions (C)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

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

$$\left(\frac{1}{9} + \frac{2}{9}\right) \div \left(\frac{4}{9}\right)^2$$

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

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

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

$$\frac{2}{3} - \left(\frac{3}{8}\right)^2 \div \frac{3}{4}$$

$$\left(\frac{1}{3}\right)^2 \div \left(\frac{1}{4} + \frac{3}{4}\right)$$

$$\frac{4}{9} \times \frac{1}{4} - \left(\frac{1}{9}\right)^2$$

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{4}{5}\right)^2 + \frac{1}{8} \div \frac{1}{4} \\ &= \frac{16}{25} + \frac{1}{8} \div \frac{1}{4} \\ &= \frac{16}{25} + \frac{1}{2} \\ &= \frac{57}{50} \\ &= 1\frac{7}{50} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{9} + \frac{2}{9}\right) \div \left(\frac{4}{9}\right)^2 \\ &= \frac{1}{3} \div \left(\frac{4}{9}\right)^2 \\ &= \frac{1}{3} \div \frac{16}{81} \\ &= \frac{27}{16} \\ &= 1\frac{11}{16} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4}\right)^2 + \frac{5}{6} \div \frac{5}{9} \\ &= \frac{9}{16} + \frac{5}{6} \div \frac{5}{9} \\ &= \frac{9}{16} + \frac{3}{2} \\ &= \frac{33}{16} \\ &= 2\frac{1}{16} \end{aligned}$$

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

$$\begin{aligned} & \left(\frac{3}{4} - \frac{2}{9}\right) \times \left(\frac{3}{5}\right)^2 \\ &= \frac{19}{36} \times \left(\frac{3}{5}\right)^2 \\ &= \frac{19}{36} \times \frac{9}{25} \\ &= \frac{19}{100} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} - \left(\frac{3}{8}\right)^2 \div \frac{3}{4} \\ &= \frac{2}{3} - \frac{9}{64} \div \frac{3}{4} \\ &= \frac{2}{3} - \frac{3}{16} \\ &= \frac{23}{48} \end{aligned}$$

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

$$\begin{aligned} & \frac{4}{9} \times \frac{1}{4} - \left(\frac{1}{9}\right)^2 \\ &= \frac{4}{9} \times \frac{1}{4} - \frac{1}{81} \\ &= \frac{1}{9} - \frac{1}{81} \\ &= \frac{8}{81} \end{aligned}$$

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