

Order of Operations with Fractions (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\frac{7}{9} - \frac{1}{3} \right) \div \frac{1}{9}$$

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

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

$$\frac{7}{9} \div \left(\frac{2}{9} \right)^2$$

$$\frac{1}{3} - \frac{2}{5} \times \frac{1}{4}$$

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

$$\frac{2}{3} \times \frac{5}{8} - \frac{1}{6}$$

$$\frac{2}{5} \div \frac{1}{2} + \frac{1}{5}$$

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$$\begin{aligned} \frac{1}{3} \div \left(\frac{3}{8} + \frac{5}{9} \right) \\ = \frac{1}{3} \div \frac{67}{72} \\ = \frac{24}{67} \end{aligned}$$

$$\begin{aligned} \left(\frac{7}{9} - \frac{1}{3} \right) \div \frac{1}{9} \\ = \frac{4}{9} \div \frac{1}{9} \\ = 4 \end{aligned}$$

$$\begin{aligned} \left(\frac{3}{4} \right)^2 - \frac{2}{5} \\ = \frac{9}{16} - \frac{2}{5} \\ = \frac{13}{80} \end{aligned}$$

$$\begin{aligned} \frac{2}{3} \times \left(\frac{7}{9} + \frac{1}{9} \right) \\ = \frac{2}{3} \times \frac{8}{9} \\ = \frac{16}{27} \end{aligned}$$

$$\begin{aligned} \frac{7}{9} \div \left(\frac{2}{9} \right)^2 \\ = \frac{7}{9} \div \frac{4}{81} \\ = \frac{63}{4} \\ = 15\frac{3}{4} \end{aligned}$$

$$\begin{aligned} \frac{1}{3} - \frac{2}{5} \times \frac{1}{4} \\ = \frac{1}{3} - \frac{1}{10} \\ = \frac{7}{30} \end{aligned}$$

$$\begin{aligned} \frac{7}{9} \div \left(\frac{3}{5} - \frac{1}{4} \right) \\ = \frac{7}{9} \div \frac{7}{20} \\ = \frac{20}{9} \\ = 2\frac{2}{9} \end{aligned}$$

$$\begin{aligned} \frac{2}{3} \times \frac{5}{8} - \frac{1}{6} \\ = \frac{5}{12} - \frac{1}{6} \\ = \frac{1}{4} \end{aligned}$$

$$\begin{aligned} \frac{2}{5} \div \frac{1}{2} + \frac{1}{5} \\ = \frac{4}{5} + \frac{1}{5} \\ = 1 \end{aligned}$$