

Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\frac{5}{6} + \frac{5}{9} - \frac{4}{9}\right) \div \left(\frac{7}{9} \times \frac{1}{6}\right)$$

$$\frac{1}{5} + \frac{1}{3} - \frac{1}{6} \times \left(\frac{1}{2} \div \frac{5}{8}\right)$$

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

$$\left(\frac{1}{9} \div \frac{2}{3} - \frac{1}{6}\right) \times \left(\frac{4}{5} + \frac{7}{8}\right)$$

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$$\begin{aligned} & \left(\frac{5}{6} + \frac{5}{9} - \frac{4}{9} \right) \div \left(\frac{7}{9} \times \frac{1}{6} \right) \\ &= \left(\frac{25}{18} - \frac{4}{9} \right) \div \left(\frac{7}{9} \times \frac{1}{6} \right) \\ &= \frac{17}{18} \div \left(\frac{7}{9} \times \frac{1}{6} \right) \\ &= \frac{17}{18} \div \frac{7}{54} \\ &= \frac{51}{7} \\ &= 7\frac{2}{7} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} + \frac{1}{3} - \frac{1}{6} \times \left(\frac{1}{2} \div \frac{5}{8} \right) \\ &= \frac{1}{5} + \frac{1}{3} - \frac{1}{6} \times \frac{4}{5} \\ &= \frac{1}{5} + \frac{1}{3} - \frac{2}{15} \\ &= \frac{8}{15} - \frac{2}{15} \\ &= \frac{2}{5} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{9} \div \frac{1}{3} + \frac{1}{4} - \frac{7}{9} \right) \times \frac{8}{9} \\ &= \left(\frac{2}{3} + \frac{1}{4} - \frac{7}{9} \right) \times \frac{8}{9} \\ &= \left(\frac{11}{12} - \frac{7}{9} \right) \times \frac{8}{9} \\ &= \frac{5}{36} \times \frac{8}{9} \\ &= \frac{10}{81} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{9} \div \frac{2}{3} - \frac{1}{6} \right) \times \left(\frac{4}{5} + \frac{7}{8} \right) \\ &= \left(\frac{1}{6} - \frac{1}{6} \right) \times \left(\frac{4}{5} + \frac{7}{8} \right) \\ &= 0 \times \left(\frac{4}{5} + \frac{7}{8} \right) \\ &= 0 \times \frac{67}{40} \\ &= 0 \end{aligned}$$