

Order of Operations with Fractions (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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$$\begin{aligned} & \left(\frac{3}{5} - \frac{2}{5} + \frac{1}{4} \right) \div \frac{1}{6} \\ & = \left(\frac{1}{5} + \frac{1}{4} \right) \div \frac{1}{6} \\ & = \frac{9}{20} \div \frac{1}{6} \\ & = \frac{27}{10} \\ & = 2\frac{7}{10} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4} + \frac{3}{4} - \frac{3}{8} \right) \div \frac{1}{9} \\ & = \left(1 - \frac{3}{8} \right) \div \frac{1}{9} \\ & = \frac{5}{8} \div \frac{1}{9} \\ & = \frac{45}{8} \\ & = 5\frac{5}{8} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{8} \times \frac{1}{4} + \frac{7}{8} \right) \div \frac{1}{3} \\ & = \left(\frac{3}{32} + \frac{7}{8} \right) \div \frac{1}{3} \\ & = \frac{31}{32} \div \frac{1}{3} \\ & = \frac{93}{32} \\ & = 2\frac{29}{32} \end{aligned}$$

$$\begin{aligned} & \left(\frac{8}{9} - \frac{2}{3} + \frac{5}{8} \right) \div \frac{1}{3} \\ & = \left(\frac{2}{9} + \frac{5}{8} \right) \div \frac{1}{3} \\ & = \frac{61}{72} \div \frac{1}{3} \\ & = \frac{61}{24} \\ & = 2\frac{13}{24} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4} + \frac{1}{8} - \frac{1}{5} \right) \times \frac{4}{9} \\ & = \left(\frac{3}{8} - \frac{1}{5} \right) \times \frac{4}{9} \\ & = \frac{7}{40} \times \frac{4}{9} \\ & = \frac{7}{90} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \div \left(\frac{3}{5} + \frac{5}{6} - \frac{1}{3} \right) \\ & = \frac{1}{8} \div \left(\frac{43}{30} - \frac{1}{3} \right) \\ & = \frac{1}{8} \div \frac{11}{10} \\ & = \frac{5}{44} \end{aligned}$$

$$\begin{aligned} & \left(\frac{7}{9} + \frac{5}{6} - \frac{2}{3} \right) \times \frac{1}{3} \\ & = \left(\frac{29}{18} - \frac{2}{3} \right) \times \frac{1}{3} \\ & = \frac{17}{18} \times \frac{1}{3} \\ & = \frac{17}{54} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{9} + \frac{1}{9} \right) \times \left(\frac{1}{3} - \frac{1}{4} \right) \\ & = \frac{1}{3} \times \left(\frac{1}{3} - \frac{1}{4} \right) \\ & = \frac{1}{3} \times \frac{1}{12} \\ & = \frac{1}{36} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} \times \left(\frac{4}{5} - \frac{1}{3} \right) \right) \div \frac{1}{5} \\ & = \left(\frac{1}{6} \times \frac{7}{15} \right) \div \frac{1}{5} \\ & = \frac{7}{90} \div \frac{1}{5} \\ & = \frac{7}{18} \end{aligned}$$