

Order of Operations with Fractions (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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$$\begin{aligned} & \left(\frac{1}{5} - \frac{1}{8} \right) \times \left(\frac{1}{9} + \frac{1}{6} \right) \div \frac{1}{3} \\ &= \frac{3}{40} \times \left(\frac{1}{9} + \frac{1}{6} \right) \div \frac{1}{3} \\ &= \frac{3}{40} \times \frac{5}{18} \div \frac{1}{3} \\ &= \frac{1}{48} \div \frac{1}{3} \\ &= \frac{1}{16} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} + \frac{3}{4} \right) \div \frac{1}{4} - \frac{1}{5} \times \frac{5}{8} \\ &= \frac{11}{12} \div \frac{1}{4} - \frac{1}{5} \times \frac{5}{8} \\ &= \frac{11}{3} - \frac{1}{5} \times \frac{5}{8} \\ &= \frac{11}{3} - \frac{1}{8} \\ &= \frac{85}{24} \\ &= 3\frac{13}{24} \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \times \left(\frac{7}{9} - \frac{1}{3} \right) \div \left(\frac{2}{5} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \frac{4}{9} \div \left(\frac{2}{5} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \frac{4}{9} \div \frac{28}{45} \\ &= \frac{10}{27} \div \frac{28}{45} \\ &= \frac{25}{42} \end{aligned}$$

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