

Order of Operations with Fractions (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$$\frac{8}{9} \div \frac{1}{9} + \frac{1}{2}$$

$$\frac{1}{2} + \frac{3}{8} \times \frac{4}{5}$$

$$\frac{5}{9} \div \frac{5}{8} + \frac{1}{3}$$

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

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

$$\frac{3}{5} \times \left(\frac{1}{4} + \frac{7}{9} \right)$$

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$$\begin{aligned} \frac{1}{8} \div \left(\frac{5}{8} + \frac{5}{9} \right) \\ = \frac{1}{8} \div \frac{85}{72} \\ = \frac{9}{85} \end{aligned}$$

$$\begin{aligned} \frac{1}{3} \div \left(\frac{4}{5} + \frac{1}{4} \right) \\ = \frac{1}{3} \div \frac{21}{20} \\ = \frac{20}{63} \end{aligned}$$

$$\begin{aligned} \frac{3}{4} \div \left(\frac{7}{9} - \frac{1}{3} \right) \\ = \frac{3}{4} \div \frac{4}{9} \\ = \frac{27}{16} \\ = 1\frac{11}{16} \end{aligned}$$

$$\begin{aligned} \frac{8}{9} \div \frac{1}{9} + \frac{1}{2} \\ = 8 + \frac{1}{2} \\ = \frac{17}{2} \\ = 8\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} + \frac{3}{8} \times \frac{4}{5} \\ = \frac{1}{2} + \frac{3}{10} \\ = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \frac{5}{9} \div \frac{5}{8} + \frac{1}{3} \\ = \frac{8}{9} + \frac{1}{3} \\ = \frac{11}{9} \\ = 1\frac{2}{9} \end{aligned}$$

$$\begin{aligned} \frac{1}{8} \div \left(\frac{1}{2} + \frac{4}{9} \right) \\ = \frac{1}{8} \div \frac{17}{18} \\ = \frac{9}{68} \end{aligned}$$

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

$$\begin{aligned} \frac{3}{5} \times \left(\frac{1}{4} + \frac{7}{9} \right) \\ = \frac{3}{5} \times \frac{37}{36} \\ = \frac{37}{60} \end{aligned}$$