

Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\frac{2}{3} \div \frac{1}{5} - \frac{2}{5}$$

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

$$\left(\frac{2}{9}\right)^2 \times \frac{3}{4}$$

$$\frac{3}{4} \div \left(\frac{7}{8} - \frac{4}{5}\right)$$

$$\left(\frac{7}{9} + \frac{3}{8}\right) \div \frac{7}{8}$$

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

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

$$\frac{1}{3} + \frac{7}{9} \times \frac{4}{5}$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} \frac{2}{5} \div \left(\frac{4}{5}\right)^2 \\ = \frac{2}{5} \div \frac{16}{25} \\ = \frac{5}{8} \end{aligned}$$

$$\begin{aligned} \frac{2}{3} \div \frac{1}{5} - \frac{2}{5} \\ = \frac{10}{3} - \frac{2}{5} \\ = \frac{44}{15} \\ = 2\frac{14}{15} \end{aligned}$$

$$\begin{aligned} \left(\frac{5}{6} + \frac{2}{9}\right) \times \frac{1}{3} \\ = \frac{19}{18} \times \frac{1}{3} \\ = \frac{19}{54} \end{aligned}$$

$$\begin{aligned} \left(\frac{2}{9}\right)^2 \times \frac{3}{4} \\ = \frac{4}{81} \times \frac{3}{4} \\ = \frac{1}{27} \end{aligned}$$

$$\begin{aligned} \frac{3}{4} \div \left(\frac{7}{8} - \frac{4}{5}\right) \\ = \frac{3}{4} \div \frac{3}{40} \\ = 10 \end{aligned}$$

$$\begin{aligned} \left(\frac{7}{9} + \frac{3}{8}\right) \div \frac{7}{8} \\ = \frac{83}{72} \div \frac{7}{8} \\ = \frac{83}{63} \\ = 1\frac{20}{63} \end{aligned}$$

$$\begin{aligned} \left(\frac{7}{9} + \frac{1}{3}\right) \times \frac{3}{4} \\ = \frac{10}{9} \times \frac{3}{4} \\ = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} \left(\frac{3}{4} + \frac{1}{2}\right) \div \frac{1}{4} \\ = \frac{5}{4} \div \frac{1}{4} \\ = 5 \end{aligned}$$

$$\begin{aligned} \frac{1}{3} + \frac{7}{9} \times \frac{4}{5} \\ = \frac{1}{3} + \frac{28}{45} \\ = \frac{43}{45} \end{aligned}$$