

## Order of Operations with Fractions (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\left(-\frac{1}{2}\right)^2 \div \frac{1}{8} - \left(-\frac{7}{8}\right)$$

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

$$\left(\frac{1}{4}\right)^2 \times \frac{3}{5} + \left(-\frac{5}{8}\right)$$

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

$$\left(-\frac{5}{8}\right) + \left(-\frac{3}{4}\right)^2 \div \left(-\frac{5}{6}\right)$$

$$\left(\frac{7}{9}\right)^2 \div \left(\frac{1}{9} + \left(-\frac{7}{9}\right)\right)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(-\frac{1}{2}\right)^2 \div \frac{1}{8} - \left(-\frac{7}{8}\right) \\ & = \frac{1}{4} \div \frac{1}{8} - \left(-\frac{7}{8}\right) \\ & = \frac{2}{1} - \left(-\frac{7}{8}\right) \\ & = \frac{23}{8} \\ & = 2\frac{7}{8} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{7}{9}\right) - \left(-\frac{3}{4}\right) \div \left(\frac{3}{4}\right)^3 \\ & = \left(-\frac{7}{9}\right) - \left(-\frac{3}{4}\right) \div \frac{27}{64} \\ & = \left(-\frac{7}{9}\right) - \left(-\frac{16}{9}\right) \\ & = 1 \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4}\right)^2 \times \frac{3}{5} + \left(-\frac{5}{8}\right) \\ & = \frac{1}{16} \times \frac{3}{5} + \left(-\frac{5}{8}\right) \\ & = \frac{3}{80} + \left(-\frac{5}{8}\right) \\ & = -\frac{47}{80} \end{aligned}$$

$$\begin{aligned} & \frac{5}{9} \div \left(\left(-\frac{7}{9}\right)^2 + \left(-\frac{2}{3}\right)\right) \\ & = \frac{5}{9} \div \left(\frac{49}{81} + \left(-\frac{2}{3}\right)\right) \\ & = \frac{5}{9} \div \left(-\frac{5}{81}\right) \\ & = -9 \end{aligned}$$

$$\begin{aligned} & \left(-\frac{5}{8}\right) + \left(-\frac{3}{4}\right)^2 \div \left(-\frac{5}{6}\right) \\ & = \left(-\frac{5}{8}\right) + \frac{9}{16} \div \left(-\frac{5}{6}\right) \\ & = \left(-\frac{5}{8}\right) + \left(-\frac{27}{40}\right) \\ & = -\frac{13}{10} \\ & = -1\frac{3}{10} \end{aligned}$$

$$\begin{aligned} & \left(\frac{7}{9}\right)^2 \div \left(\frac{1}{9} + \left(-\frac{7}{9}\right)\right) \\ & = \left(\frac{7}{9}\right)^2 \div \left(-\frac{2}{9}\right) \\ & = \frac{49}{81} \div \left(-\frac{2}{9}\right) \\ & = -\frac{49}{54} \end{aligned}$$