

# Order of Operations with Fractions (I)

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

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

Simplify each expression using the correct order of operations.

$$\left(-\frac{4}{9}\right) \times \left(\left(-\frac{3}{5}\right) + \left(-\frac{7}{8}\right)\right)$$

$$\frac{7}{8} \div \left(\frac{1}{4}\right)^2$$

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

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

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

$$\left(-\frac{5}{6}\right) \div \frac{1}{8} - \left(-\frac{2}{9}\right)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(-\frac{4}{9}\right) \times \left(\left(-\frac{3}{5}\right) + \left(-\frac{7}{8}\right)\right) \\ &= \left(-\frac{4}{9}\right) \times \left(-\frac{59}{40}\right) \\ &= \frac{59}{90} \end{aligned}$$

$$\begin{aligned} & \frac{7}{8} \div \left(\frac{1}{4}\right)^2 \\ &= \frac{7}{8} \div \frac{1}{16} \\ &= 14 \end{aligned}$$

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

$$\begin{aligned} & \left(-\frac{1}{3}\right) - \left(-\frac{8}{9}\right) \times \left(-\frac{5}{9}\right) \\ &= \left(-\frac{1}{3}\right) - \frac{40}{81} \\ &= -\frac{67}{81} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{1}{3}\right) - \frac{2}{3} \times \left(-\frac{5}{6}\right) \\ &= \left(-\frac{1}{3}\right) - \left(-\frac{5}{9}\right) \\ &= \frac{2}{9} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{5}{6}\right) \div \frac{1}{8} - \left(-\frac{2}{9}\right) \\ &= \left(-\frac{20}{3}\right) - \left(-\frac{2}{9}\right) \\ &= -\frac{58}{9} \\ &= -6\frac{4}{9} \end{aligned}$$