

# Order of Operations with Fractions (G)

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

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

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{8}{9}\right) - \frac{8}{9}\right) \times \frac{1}{4}$$

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

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

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

$$\left(-\frac{5}{9}\right) \times \left(\frac{2}{5} - \frac{1}{2}\right)$$

$$\left(-\frac{3}{8}\right) + \frac{5}{6} \times \frac{7}{8}$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \left( -\frac{8}{9} \right) - \frac{8}{9} \right) \times \frac{1}{4} \\ &= \left( -\frac{16}{9} \right) \times \frac{1}{4} \\ &= -\frac{4}{9} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{2} \right)^3 \div \left( -\frac{1}{9} \right) \\ &= \frac{1}{8} \div \left( -\frac{1}{9} \right) \\ &= -\frac{9}{8} \\ &= -1\frac{1}{8} \end{aligned}$$

$$\begin{aligned} & \frac{1}{9} \div \left( -\frac{1}{8} \right)^2 \\ &= \frac{1}{9} \div \frac{1}{64} \\ &= \frac{64}{9} \\ &= 7\frac{1}{9} \end{aligned}$$

$$\begin{aligned} & \frac{3}{5} - \frac{2}{3} \div \left( -\frac{1}{9} \right) \\ &= \frac{3}{5} - (-6) \\ &= \frac{33}{5} \\ &= 6\frac{3}{5} \end{aligned}$$

$$\begin{aligned} & \left( -\frac{5}{9} \right) \times \left( \frac{2}{5} - \frac{1}{2} \right) \\ &= \left( -\frac{5}{9} \right) \times \left( -\frac{1}{10} \right) \\ &= \frac{1}{18} \end{aligned}$$

$$\begin{aligned} & \left( -\frac{3}{8} \right) + \frac{5}{6} \times \frac{7}{8} \\ &= \left( -\frac{3}{8} \right) + \frac{35}{48} \\ &= \frac{17}{48} \end{aligned}$$