

# Order of Operations with Fractions (G)

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

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

Simplify each expression using the correct order of operations.

$$\left(-\frac{1}{6}\right) \div \left(\frac{5}{9}\right)^2 - \frac{4}{5}$$

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

$$\frac{5}{9} \times \left(\frac{1}{8} + \left(-\frac{5}{8}\right)\right)^2$$

$$\frac{3}{4} \div \left(\frac{1}{2}\right)^3 - \frac{4}{9}$$

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

$$\left(-\frac{1}{9}\right) \times \frac{3}{8} + \left(-\frac{1}{4}\right)^2$$

# Order of Operations with Fractions (G)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(-\frac{1}{6}\right) \div \left(\frac{5}{9}\right)^2 - \frac{4}{5} \\ &= \left(-\frac{1}{6}\right) \div \frac{25}{81} - \frac{4}{5} \\ &= \left(-\frac{27}{50}\right) - \frac{4}{5} \\ &= -\frac{67}{50} \\ &= -1\frac{17}{50} \end{aligned}$$

$$\begin{aligned} & \frac{3}{8} + \frac{4}{5} \times \left(\frac{1}{2}\right)^2 \\ &= \frac{3}{8} + \frac{4}{5} \times \frac{1}{4} \\ &= \frac{3}{8} + \frac{1}{5} \\ &= \frac{23}{40} \end{aligned}$$

$$\begin{aligned} & \frac{5}{9} \times \left(\frac{1}{8} + \left(-\frac{5}{8}\right)\right)^2 \\ &= \frac{5}{9} \times \left(-\frac{1}{2}\right)^2 \\ &= \frac{5}{9} \times \frac{1}{4} \\ &= \frac{5}{36} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \left(\frac{1}{2}\right)^3 - \frac{4}{9} \\ &= \frac{3}{4} \div \frac{1}{8} - \frac{4}{9} \\ &= 6 - \frac{4}{9} \\ &= \frac{50}{9} \\ &= 5\frac{5}{9} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{2}{3}\right) \div \left(\left(-\frac{7}{9}\right)^2 - \frac{2}{9}\right) \\ &= \left(-\frac{2}{3}\right) \div \left(\frac{49}{81} - \frac{2}{9}\right) \\ &= \left(-\frac{2}{3}\right) \div \frac{31}{81} \\ &= -\frac{54}{31} \\ &= -1\frac{23}{31} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{1}{9}\right) \times \frac{3}{8} + \left(-\frac{1}{4}\right)^2 \\ &= \left(-\frac{1}{9}\right) \times \frac{3}{8} + \frac{1}{16} \\ &= \left(-\frac{1}{24}\right) + \frac{1}{16} \\ &= \frac{1}{48} \end{aligned}$$