

Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\frac{3}{8}\right)^2 \div \frac{1}{8}$$

$$\frac{1}{4} + \frac{7}{9} \div \frac{1}{6}$$

$$\left(\frac{1}{2} + \frac{1}{8}\right) \div \frac{7}{9}$$

$$\frac{1}{5} \div \left(\frac{3}{8}\right)^2$$

$$\frac{3}{8} \div \left(\frac{3}{4} - \frac{1}{2}\right)$$

$$\frac{4}{5} \div \frac{2}{5} + \frac{1}{8}$$

$$\frac{8}{9} + \frac{5}{9} \div \frac{1}{3}$$

$$\left(\frac{1}{3} - \frac{1}{8}\right) \times \frac{2}{3}$$

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$$\begin{aligned} & \left(\frac{2}{3}\right)^2 + \frac{4}{9} \\ &= \frac{4}{9} + \frac{4}{9} \\ &= \frac{8}{9} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{8}\right)^2 \div \frac{1}{8} \\ &= \frac{9}{64} \div \frac{1}{8} \\ &= \frac{9}{8} \\ &= 1\frac{1}{8} \end{aligned}$$

$$\begin{aligned} & \frac{1}{4} + \frac{7}{9} \div \frac{1}{6} \\ &= \frac{1}{4} + \frac{14}{3} \\ &= \frac{59}{12} \\ &= 4\frac{11}{12} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} + \frac{1}{8}\right) \div \frac{7}{9} \\ &= \frac{5}{8} \div \frac{7}{9} \\ &= \frac{45}{56} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} \div \left(\frac{3}{8}\right)^2 \\ &= \frac{1}{5} \div \frac{9}{64} \\ &= \frac{64}{45} \\ &= 1\frac{19}{45} \end{aligned}$$

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

$$\begin{aligned} & \frac{4}{5} \div \frac{2}{5} + \frac{1}{8} \\ &= 2 + \frac{1}{8} \\ &= \frac{17}{8} \\ &= 2\frac{1}{8} \end{aligned}$$

$$\begin{aligned} & \frac{8}{9} + \frac{5}{9} \div \frac{1}{3} \\ &= \frac{8}{9} + \frac{5}{3} \\ &= \frac{23}{9} \\ &= 2\frac{5}{9} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{3} - \frac{1}{8}\right) \times \frac{2}{3} \\ &= \frac{5}{24} \times \frac{2}{3} \\ &= \frac{5}{36} \end{aligned}$$