

# Order of Operations with Fractions (F)

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

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

Simplify each expression using the correct order of operations.

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

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

$$\frac{5}{6} \times \left( \frac{8}{9} - \frac{7}{9} \right)$$

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

$$\frac{7}{9} \times \left( \frac{3}{4} \right)^2$$

$$\frac{3}{4} - \frac{1}{4} \times \frac{2}{9}$$

$$\frac{4}{5} \div \frac{3}{8} + \frac{2}{5}$$

$$\frac{4}{5} \div \left( \frac{2}{5} \right)^2$$

$$\left( \frac{3}{8} + \frac{2}{5} \right) \times \frac{8}{9}$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned}\frac{1}{3} \div \left( \frac{2}{3} - \frac{1}{8} \right) \\ &= \frac{1}{3} \div \frac{13}{24} \\ &= \frac{8}{13}\end{aligned}$$

$$\begin{aligned}\left( \frac{2}{5} + \frac{2}{9} \right) \div \frac{7}{9} \\ &= \frac{28}{45} \div \frac{7}{9} \\ &= \frac{4}{5}\end{aligned}$$

$$\begin{aligned}\frac{5}{6} \times \left( \frac{8}{9} - \frac{7}{9} \right) \\ &= \frac{5}{6} \times \frac{1}{9} \\ &= \frac{5}{54}\end{aligned}$$

$$\begin{aligned}\left( \frac{8}{9} - \frac{1}{9} \right) \times \frac{1}{2} \\ &= \frac{7}{9} \times \frac{1}{2} \\ &= \frac{7}{18}\end{aligned}$$

$$\begin{aligned}\frac{7}{9} \times \left( \frac{3}{4} \right)^2 \\ &= \frac{7}{9} \times \frac{9}{16} \\ &= \frac{7}{16}\end{aligned}$$

$$\begin{aligned}\frac{3}{4} - \frac{1}{4} \times \frac{2}{9} \\ &= \frac{3}{4} - \frac{1}{18} \\ &= \frac{25}{36}\end{aligned}$$

$$\begin{aligned}\frac{4}{5} \div \frac{3}{8} + \frac{2}{5} \\ &= \frac{32}{15} + \frac{2}{5} \\ &= \frac{38}{15} \\ &= 2\frac{8}{15}\end{aligned}$$

$$\begin{aligned}\frac{4}{5} \div \left( \frac{2}{5} \right)^2 \\ &= \frac{4}{5} \div \frac{4}{25} \\ &= 5\end{aligned}$$

$$\begin{aligned}\left( \frac{3}{8} + \frac{2}{5} \right) \times \frac{8}{9} \\ &= \frac{31}{40} \times \frac{8}{9} \\ &= \frac{31}{45}\end{aligned}$$