

# Order of Operations with Fractions (A)

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

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

Simplify each expression using the correct order of operations.

$$\left(\frac{3}{5} - \frac{2}{5} + \frac{1}{4}\right) \div \frac{1}{6}$$

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

$$\left(\frac{3}{8} \times \frac{1}{4} + \frac{7}{8}\right) \div \frac{1}{3}$$

$$\left(\frac{8}{9} - \frac{2}{3} + \frac{5}{8}\right) \div \frac{1}{3}$$

$$\left(\frac{1}{4} + \frac{1}{8} - \frac{1}{5}\right) \times \frac{4}{9}$$

$$\frac{1}{8} \div \left(\frac{3}{5} + \frac{5}{6} - \frac{1}{3}\right)$$

$$\left(\frac{7}{9} + \frac{5}{6} - \frac{2}{3}\right) \times \frac{1}{3}$$

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

$$\left(\frac{1}{6} \times \left(\frac{4}{5} - \frac{1}{3}\right)\right) \div \frac{1}{5}$$

# Order of Operations with Fractions (A)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{3}{5} - \frac{2}{5} + \frac{1}{4} \right) \div \frac{1}{6} \\ &= \left( \frac{1}{5} + \frac{1}{4} \right) \div \frac{1}{6} \\ &= \frac{9}{20} \div \frac{1}{6} \\ &= \frac{27}{10} \\ &= 2\frac{7}{10} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{4} + \frac{3}{4} - \frac{3}{8} \right) \div \frac{1}{9} \\ &= \left( 1 - \frac{3}{8} \right) \div \frac{1}{9} \\ &= \frac{5}{8} \div \frac{1}{9} \\ &= \frac{45}{8} \\ &= 5\frac{5}{8} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{8} \times \frac{1}{4} + \frac{7}{8} \right) \div \frac{1}{3} \\ &= \left( \frac{3}{32} + \frac{7}{8} \right) \div \frac{1}{3} \\ &= \frac{31}{32} \div \frac{1}{3} \\ &= \frac{93}{32} \\ &= 2\frac{29}{32} \end{aligned}$$

$$\begin{aligned} & \left( \frac{8}{9} - \frac{2}{3} + \frac{5}{8} \right) \div \frac{1}{3} \\ &= \left( \frac{2}{9} + \frac{5}{8} \right) \div \frac{1}{3} \\ &= \frac{61}{72} \div \frac{1}{3} \\ &= \frac{61}{24} \\ &= 2\frac{13}{24} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{4} + \frac{1}{8} - \frac{1}{5} \right) \times \frac{4}{9} \\ &= \left( \frac{3}{8} - \frac{1}{5} \right) \times \frac{4}{9} \\ &= \frac{7}{40} \times \frac{4}{9} \\ &= \frac{7}{90} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \div \left( \frac{3}{5} + \frac{5}{6} - \frac{1}{3} \right) \\ &= \frac{1}{8} \div \left( \frac{43}{30} - \frac{1}{3} \right) \\ &= \frac{1}{8} \div \frac{11}{10} \\ &= \frac{5}{44} \end{aligned}$$

$$\begin{aligned} & \left( \frac{7}{9} + \frac{5}{6} - \frac{2}{3} \right) \times \frac{1}{3} \\ &= \left( \frac{29}{18} - \frac{2}{3} \right) \times \frac{1}{3} \\ &= \frac{17}{18} \times \frac{1}{3} \\ &= \frac{17}{54} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{9} + \frac{1}{9} \right) \times \left( \frac{1}{3} - \frac{1}{4} \right) \\ &= \frac{1}{3} \times \left( \frac{1}{3} - \frac{1}{4} \right) \\ &= \frac{1}{3} \times \frac{1}{12} \\ &= \frac{1}{36} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{6} \times \left( \frac{4}{5} - \frac{1}{3} \right) \right) \div \frac{1}{5} \\ &= \left( \frac{1}{6} \times \frac{7}{15} \right) \div \frac{1}{5} \\ &= \frac{7}{90} \div \frac{1}{5} \\ &= \frac{7}{18} \end{aligned}$$

## Order of Operations with Fractions (B)

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

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

Simplify each expression using the correct order of operations.

$$\frac{1}{3} \div \left( \frac{8}{9} - \frac{1}{9} + \frac{2}{5} \right)$$

$$\left( \left( \frac{2}{3} + \frac{4}{5} \right) \div \frac{7}{9} \right) \times \frac{1}{2}$$

$$\frac{2}{9} \div \left( \frac{2}{5} \times \frac{3}{8} + \frac{1}{3} \right)$$

$$\left( \left( \frac{1}{4} - \frac{1}{6} \right) \times \frac{8}{9} \right) \div \frac{7}{9}$$

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

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

$$\frac{5}{6} \div \left( \frac{1}{9} + \frac{5}{8} - \frac{2}{3} \right)$$

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

$$\frac{5}{9} - \frac{4}{9} \times \left( \frac{1}{4} + \frac{5}{6} \right)$$

# Order of Operations with Fractions (B)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{1}{3} \div \left( \frac{8}{9} - \frac{1}{9} + \frac{2}{5} \right) \\ &= \frac{1}{3} \div \left( \frac{7}{9} + \frac{2}{5} \right) \\ &= \frac{1}{3} \div \frac{53}{45} \\ &= \frac{15}{53} \end{aligned}$$

$$\begin{aligned} & \left( \left( \frac{2}{3} + \frac{4}{5} \right) \div \frac{7}{9} \right) \times \frac{1}{2} \\ &= \left( \frac{22}{15} \div \frac{7}{9} \right) \times \frac{1}{2} \\ &= \frac{66}{35} \times \frac{1}{2} \\ &= \frac{33}{35} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \div \left( \frac{2}{5} \times \frac{3}{8} + \frac{1}{3} \right) \\ &= \frac{2}{9} \div \left( \frac{3}{20} + \frac{1}{3} \right) \\ &= \frac{2}{9} \div \frac{29}{60} \\ &= \frac{40}{87} \end{aligned}$$

$$\begin{aligned} & \left( \left( \frac{1}{4} - \frac{1}{6} \right) \times \frac{8}{9} \right) \div \frac{7}{9} \\ &= \left( \frac{1}{12} \times \frac{8}{9} \right) \div \frac{7}{9} \\ &= \frac{2}{27} \div \frac{7}{9} \\ &= \frac{2}{21} \end{aligned}$$

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

$$\begin{aligned} & \frac{8}{9} \div \left( \frac{1}{3} + \frac{5}{8} - \frac{1}{8} \right) \\ &= \frac{8}{9} \div \left( \frac{23}{24} - \frac{1}{8} \right) \\ &= \frac{8}{9} \div \frac{5}{6} \\ &= \frac{16}{15} \\ &= 1\frac{1}{15} \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \div \left( \frac{1}{9} + \frac{5}{8} - \frac{2}{3} \right) \\ &= \frac{5}{6} \div \left( \frac{53}{72} - \frac{2}{3} \right) \\ &= \frac{5}{6} \div \frac{5}{72} \\ &= 12 \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left( \frac{4}{9} - \frac{3}{8} + \frac{1}{8} \right) \\ &= \frac{3}{4} \times \left( \frac{5}{72} + \frac{1}{8} \right) \\ &= \frac{3}{4} \times \frac{7}{36} \\ &= \frac{7}{48} \end{aligned}$$

$$\begin{aligned} & \frac{5}{9} - \frac{4}{9} \times \left( \frac{1}{4} + \frac{5}{6} \right) \\ &= \frac{5}{9} - \frac{4}{9} \times \frac{13}{12} \\ &= \frac{5}{9} - \frac{13}{27} \\ &= \frac{2}{27} \end{aligned}$$

## Order of Operations with Fractions (C)

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

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

Simplify each expression using the correct order of operations.

$$\frac{1}{8} \div \left( \frac{3}{4} + \frac{5}{6} - \frac{2}{3} \right)$$

$$\left( \frac{5}{6} + \frac{1}{3} - \frac{7}{8} \right) \div \frac{8}{9}$$

$$\left( \frac{4}{9} - \frac{5}{9} \times \frac{1}{4} \right) \div \frac{7}{8}$$

$$\frac{1}{3} \div \left( \left( \frac{4}{5} + \frac{4}{9} \right) \times \frac{5}{6} \right)$$

$$\left( \frac{2}{3} + \frac{5}{6} - \frac{5}{9} \right) \div \frac{1}{4}$$

$$\frac{1}{3} \times \left( \frac{2}{3} - \frac{1}{6} + \frac{4}{5} \right)$$

$$\left( \frac{2}{9} + \frac{4}{9} \right) \div \left( \frac{2}{3} \times \frac{2}{5} \right)$$

$$\left( \frac{5}{9} + \frac{1}{8} \div \frac{1}{4} \right) \times \frac{8}{9}$$

$$\frac{3}{4} - \frac{2}{5} \times \left( \frac{1}{5} \div \frac{3}{5} \right)$$

# Order of Operations with Fractions (C)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{1}{8} \div \left( \frac{3}{4} + \frac{5}{6} - \frac{2}{3} \right) \\ &= \frac{1}{8} \div \left( \frac{19}{12} - \frac{2}{3} \right) \\ &= \frac{1}{8} \div \frac{11}{12} \\ &= \frac{3}{22} \end{aligned}$$

$$\begin{aligned} & \left( \frac{5}{6} + \frac{1}{3} - \frac{7}{8} \right) \div \frac{8}{9} \\ &= \left( \frac{7}{6} - \frac{7}{8} \right) \div \frac{8}{9} \\ &= \frac{7}{24} \div \frac{8}{9} \\ &= \frac{21}{64} \end{aligned}$$

$$\begin{aligned} & \left( \frac{4}{9} - \frac{5}{9} \times \frac{1}{4} \right) \div \frac{7}{8} \\ &= \left( \frac{4}{9} - \frac{5}{36} \right) \div \frac{7}{8} \\ &= \frac{11}{36} \div \frac{7}{8} \\ &= \frac{22}{63} \end{aligned}$$

$$\begin{aligned} & \frac{1}{3} \div \left( \left( \frac{4}{5} + \frac{4}{9} \right) \times \frac{5}{6} \right) \\ &= \frac{1}{3} \div \left( \frac{56}{45} \times \frac{5}{6} \right) \\ &= \frac{1}{3} \div \frac{28}{27} \\ &= \frac{9}{28} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{3} + \frac{5}{6} - \frac{5}{9} \right) \div \frac{1}{4} \\ &= \left( \frac{3}{2} - \frac{5}{9} \right) \div \frac{1}{4} \\ &= \frac{17}{18} \div \frac{1}{4} \\ &= \frac{34}{9} \\ &= 3\frac{7}{9} \end{aligned}$$

$$\begin{aligned} & \frac{1}{3} \times \left( \frac{2}{3} - \frac{1}{6} + \frac{4}{5} \right) \\ &= \frac{1}{3} \times \left( \frac{1}{2} + \frac{4}{5} \right) \\ &= \frac{1}{3} \times \frac{13}{10} \\ &= \frac{13}{30} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{9} + \frac{4}{9} \right) \div \left( \frac{2}{3} \times \frac{2}{5} \right) \\ &= \frac{2}{3} \div \left( \frac{2}{3} \times \frac{2}{5} \right) \\ &= \frac{2}{3} \div \frac{4}{15} \\ &= \frac{5}{2} \\ &= 2\frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \left( \frac{5}{9} + \frac{1}{8} \div \frac{1}{4} \right) \times \frac{8}{9} \\ &= \left( \frac{5}{9} + \frac{1}{2} \right) \times \frac{8}{9} \\ &= \frac{19}{18} \times \frac{8}{9} \\ &= \frac{76}{81} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} - \frac{2}{5} \times \left( \frac{1}{5} \div \frac{3}{5} \right) \\ &= \frac{3}{4} - \frac{2}{5} \times \frac{1}{3} \\ &= \frac{3}{4} - \frac{2}{15} \\ &= \frac{37}{60} \end{aligned}$$

## Order of Operations with Fractions (D)

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

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

Simplify each expression using the correct order of operations.

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

$$\left(\frac{5}{6} + \frac{1}{8} - \frac{1}{4}\right) \times \frac{2}{5}$$

$$\frac{2}{9} \div \left(\frac{2}{3} - \frac{1}{8} + \frac{7}{9}\right)$$

$$\left(\frac{1}{2} - \frac{1}{4} + \frac{5}{8}\right) \div \frac{5}{6}$$

$$\left(\frac{2}{5} \times \frac{1}{2}\right) \div \frac{3}{5} + \frac{4}{9}$$

$$\frac{1}{8} \times \left(\frac{5}{6} + \frac{1}{4} - \frac{1}{6}\right)$$

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

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

$$\left(\frac{5}{9} + \frac{1}{9} - \frac{1}{5}\right) \div \frac{1}{4}$$

# Order of Operations with Fractions (D)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{4}{5} + \frac{1}{5} \right) \times \left( \frac{1}{2} \div \frac{1}{3} \right) \\ &= 1 \times \left( \frac{1}{2} \div \frac{1}{3} \right) \\ &= \underline{1 \times \frac{3}{2}} \\ &= \frac{3}{2} \\ &= 1\frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \left( \frac{5}{6} + \frac{1}{8} - \frac{1}{4} \right) \times \frac{2}{5} \\ &= \left( \frac{23}{24} - \frac{1}{4} \right) \times \frac{2}{5} \\ &= \underline{\frac{17}{24} \times \frac{2}{5}} \\ &= \frac{17}{60} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \div \left( \frac{2}{3} - \frac{1}{8} + \frac{7}{9} \right) \\ &= \frac{2}{9} \div \left( \frac{13}{24} + \frac{7}{9} \right) \\ &= \underline{\frac{2}{9} \div \frac{95}{72}} \\ &= \frac{16}{95} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{2} - \frac{1}{4} + \frac{5}{8} \right) \div \frac{5}{6} \\ &= \left( \frac{1}{4} + \frac{5}{8} \right) \div \frac{5}{6} \\ &= \underline{\frac{7}{8} \div \frac{5}{6}} \\ &= \frac{21}{20} \\ &= 1\frac{1}{20} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{5} \times \frac{1}{2} \right) \div \frac{3}{5} + \frac{4}{9} \\ &= \underline{\frac{1}{5} \div \frac{3}{5}} + \frac{4}{9} \\ &= \underline{\frac{1}{3} + \frac{4}{9}} \\ &= \frac{7}{9} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \times \left( \frac{5}{6} + \frac{1}{4} - \frac{1}{6} \right) \\ &= \frac{1}{8} \times \left( \frac{13}{12} - \frac{1}{6} \right) \\ &= \underline{\frac{1}{8} \times \frac{11}{12}} \\ &= \frac{11}{96} \end{aligned}$$

$$\begin{aligned} & \left( \frac{8}{9} + \frac{2}{3} \right) \div \frac{3}{4} - \frac{2}{9} \\ &= \underline{\frac{14}{9} \div \frac{3}{4}} - \frac{2}{9} \\ &= \underline{\frac{56}{27} - \frac{2}{9}} \\ &= \frac{50}{27} \\ &= 1\frac{23}{27} \end{aligned}$$

$$\begin{aligned} & \frac{4}{5} \times \left( \frac{2}{5} + \frac{2}{3} - \frac{1}{2} \right) \\ &= \frac{4}{5} \times \left( \frac{16}{15} - \frac{1}{2} \right) \\ &= \underline{\frac{4}{5} \times \frac{17}{30}} \\ &= \frac{34}{75} \end{aligned}$$

$$\begin{aligned} & \left( \frac{5}{9} + \frac{1}{9} - \frac{1}{5} \right) \div \frac{1}{4} \\ &= \left( \frac{2}{3} - \frac{1}{5} \right) \div \frac{1}{4} \\ &= \underline{\frac{7}{15} \div \frac{1}{4}} \\ &= \frac{28}{15} \\ &= 1\frac{13}{15} \end{aligned}$$



## Order of Operations with Fractions (E)

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

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

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

$$\frac{1}{5} \div \frac{1}{6} \times \left( \frac{8}{9} - \frac{3}{8} \right)$$

$$\left( \frac{5}{9} + \frac{5}{6} \right) \div \left( \frac{2}{3} \times \frac{5}{8} \right)$$

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

# Order of Operations with Fractions (E)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{5}{8} \times \left( \frac{4}{5} - \frac{1}{4} + \frac{2}{3} \right) \\ &= \frac{5}{8} \times \left( \frac{11}{20} + \frac{2}{3} \right) \\ &= \frac{5}{8} \times \frac{73}{60} \\ &= \frac{73}{96} \end{aligned}$$

$$\begin{aligned} & \frac{1}{2} + \frac{3}{4} \div \left( \frac{1}{3} - \frac{2}{9} \right) \\ &= \frac{1}{2} + \frac{3}{4} \div \frac{1}{9} \\ &= \frac{1}{2} + \frac{27}{4} \\ &= \frac{29}{4} \\ &= 7\frac{1}{4} \end{aligned}$$

$$\begin{aligned} & \left( \frac{7}{9} + \frac{8}{9} - \frac{5}{6} \right) \times \frac{5}{8} \\ &= \left( \frac{5}{3} - \frac{5}{6} \right) \times \frac{5}{8} \\ &= \frac{5}{6} \times \frac{5}{8} \\ &= \frac{25}{48} \end{aligned}$$

$$\begin{aligned} & \frac{5}{8} \div \left( \frac{3}{8} + \frac{4}{9} - \frac{3}{4} \right) \\ &= \frac{5}{8} \div \left( \frac{59}{72} - \frac{3}{4} \right) \\ &= \frac{5}{8} \div \frac{5}{72} \\ &= 9 \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{2} - \frac{1}{8} \right) \div \frac{7}{8} \times \frac{7}{9} \\ &= \frac{3}{8} \div \frac{7}{8} \times \frac{7}{9} \\ &= \frac{3}{7} \times \frac{7}{9} \\ &= \frac{1}{3} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \left( \frac{1}{4} \times \frac{1}{8} + \frac{1}{2} \right) \\ &= \frac{3}{4} \div \left( \frac{1}{32} + \frac{1}{2} \right) \\ &= \frac{3}{4} \div \frac{17}{32} \\ &= \frac{24}{17} \\ &= 1\frac{7}{17} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} \div \frac{1}{6} \times \left( \frac{8}{9} - \frac{3}{8} \right) \\ &= \frac{1}{5} \div \frac{1}{6} \times \frac{37}{72} \\ &= \frac{6}{5} \times \frac{37}{72} \\ &= \frac{37}{60} \end{aligned}$$

$$\begin{aligned} & \left( \frac{5}{9} + \frac{5}{6} \right) \div \left( \frac{2}{3} \times \frac{5}{8} \right) \\ &= \frac{25}{18} \div \left( \frac{2}{3} \times \frac{5}{8} \right) \\ &= \frac{25}{18} \div \frac{5}{12} \\ &= \frac{10}{3} \\ &= 3\frac{1}{3} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{8} + \frac{5}{8} - \frac{1}{3} \right) \div \frac{1}{2} \\ &= \left( \frac{3}{4} - \frac{1}{3} \right) \div \frac{1}{2} \\ &= \frac{5}{12} \div \frac{1}{2} \\ &= \frac{5}{6} \end{aligned}$$

# Order of Operations with Fractions (F)

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

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

Simplify each expression using the correct order of operations.

$$\left(\frac{8}{9} + \frac{3}{8} - \frac{1}{8}\right) \div \frac{1}{9}$$

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

$$\left(\frac{3}{4} + \frac{1}{4}\right) \div \left(\frac{3}{5} \times \frac{8}{9}\right)$$

$$\frac{2}{5} \times \left(\frac{1}{2} \div \frac{1}{6} + \frac{5}{6}\right)$$

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

$$\frac{3}{4} \div \left(\frac{5}{6} - \frac{3}{5} + \frac{2}{3}\right)$$

$$\left(\frac{7}{8} \times \frac{1}{9}\right) \div \left(\frac{1}{6} + \frac{5}{8}\right)$$

$$\frac{3}{5} \div \left(\frac{8}{9} - \frac{2}{9} + \frac{1}{6}\right)$$

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

# Order of Operations with Fractions (F)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{8}{9} + \frac{3}{8} - \frac{1}{8} \right) \div \frac{1}{9} \\ &= \left( \frac{91}{72} - \frac{1}{8} \right) \div \frac{1}{9} \\ &= \frac{41}{36} \div \frac{1}{9} \\ &= \frac{41}{4} \\ &= 10\frac{1}{4} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{4} - \frac{2}{3} + \frac{5}{8} \right) \times \frac{1}{4} \\ &= \left( \frac{1}{12} + \frac{5}{8} \right) \times \frac{1}{4} \\ &= \frac{17}{24} \times \frac{1}{4} \\ &= \frac{17}{96} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{4} + \frac{1}{4} \right) \div \left( \frac{3}{5} \times \frac{8}{9} \right) \\ &= 1 \div \left( \frac{3}{5} \times \frac{8}{9} \right) \\ &= 1 \div \frac{8}{15} \\ &= \frac{15}{8} \\ &= 1\frac{7}{8} \end{aligned}$$

$$\begin{aligned} & \frac{2}{5} \times \left( \frac{1}{2} \div \frac{1}{6} + \frac{5}{6} \right) \\ &= \frac{2}{5} \times \left( 3 + \frac{5}{6} \right) \\ &= \frac{2}{5} \times \frac{23}{6} \\ &= \frac{23}{15} \\ &= 1\frac{8}{15} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{5} + \frac{3}{4} \right) \div \frac{1}{2} \times \frac{2}{5} \\ &= \frac{19}{20} \div \frac{1}{2} \times \frac{2}{5} \\ &= \frac{19}{10} \times \frac{2}{5} \\ &= \frac{19}{25} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \left( \frac{5}{6} - \frac{3}{5} + \frac{2}{3} \right) \\ &= \frac{3}{4} \div \left( \frac{7}{30} + \frac{2}{3} \right) \\ &= \frac{3}{4} \div \frac{9}{10} \\ &= \frac{5}{6} \end{aligned}$$

$$\begin{aligned} & \left( \frac{7}{8} \times \frac{1}{9} \right) \div \left( \frac{1}{6} + \frac{5}{8} \right) \\ &= \frac{7}{72} \div \left( \frac{1}{6} + \frac{5}{8} \right) \\ &= \frac{7}{72} \div \frac{19}{24} \\ &= \frac{7}{57} \end{aligned}$$

$$\begin{aligned} & \frac{3}{5} \div \left( \frac{8}{9} - \frac{2}{9} + \frac{1}{6} \right) \\ &= \frac{3}{5} \div \left( \frac{2}{3} + \frac{1}{6} \right) \\ &= \frac{3}{5} \div \frac{5}{6} \\ &= \frac{18}{25} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{2} - \frac{3}{8} + \frac{2}{3} \right) \times \frac{4}{5} \\ &= \left( \frac{1}{8} + \frac{2}{3} \right) \times \frac{4}{5} \\ &= \frac{19}{24} \times \frac{4}{5} \\ &= \frac{19}{30} \end{aligned}$$

# Order of Operations with Fractions (G)

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

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

Simplify each expression using the correct order of operations.

$$\left(\frac{5}{6} + \frac{1}{8} \div \frac{1}{3}\right) \times \frac{8}{9}$$

$$\left(\frac{7}{9} - \frac{1}{5}\right) \times \left(\frac{8}{9} + \frac{1}{9}\right)$$

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

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

$$\frac{3}{5} \div \left(\frac{4}{5} - \frac{5}{9} + \frac{2}{9}\right)$$

$$\left(\frac{5}{6} \times \frac{2}{3} + \frac{1}{2}\right) \div \frac{5}{8}$$

$$\frac{4}{9} \times \left(\frac{4}{5} - \frac{1}{9} + \frac{1}{5}\right)$$

$$\left(\frac{3}{8} + \frac{1}{2} - \frac{1}{8}\right) \times \frac{5}{9}$$

$$\left(\frac{8}{9} - \frac{4}{9} \times \frac{5}{8}\right) \div \frac{5}{6}$$

# Order of Operations with Fractions (G)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{5}{6} + \frac{1}{8} \div \frac{1}{3} \right) \times \frac{8}{9} \\ & = \left( \frac{5}{6} + \frac{3}{8} \right) \times \frac{8}{9} \\ & = \frac{29}{24} \times \frac{8}{9} \\ & = \frac{29}{27} \\ & = 1\frac{2}{27} \end{aligned}$$

$$\begin{aligned} & \left( \frac{7}{9} - \frac{1}{5} \right) \times \left( \frac{8}{9} + \frac{1}{9} \right) \\ & = \frac{26}{45} \times \left( \frac{8}{9} + \frac{1}{9} \right) \\ & = \frac{26}{45} \times 1 \\ & = \frac{26}{45} \end{aligned}$$

$$\begin{aligned} & \left( \frac{8}{9} + \frac{3}{5} - \frac{2}{3} \right) \times \frac{5}{9} \\ & = \left( \frac{67}{45} - \frac{2}{3} \right) \times \frac{5}{9} \\ & = \frac{37}{45} \times \frac{5}{9} \\ & = \frac{37}{81} \end{aligned}$$

$$\begin{aligned} & \left( \frac{4}{9} - \frac{1}{3} \right) \div \frac{1}{8} + \frac{3}{8} \\ & = \frac{1}{9} \div \frac{1}{8} + \frac{3}{8} \\ & = \frac{8}{9} + \frac{3}{8} \\ & = \frac{91}{72} \\ & = 1\frac{19}{72} \end{aligned}$$

$$\begin{aligned} & \frac{3}{5} \div \left( \frac{4}{5} - \frac{5}{9} + \frac{2}{9} \right) \\ & = \frac{3}{5} \div \left( \frac{11}{45} + \frac{2}{9} \right) \\ & = \frac{3}{5} \div \frac{7}{15} \\ & = \frac{9}{7} \\ & = 1\frac{2}{7} \end{aligned}$$

$$\begin{aligned} & \left( \frac{5}{6} \times \frac{2}{3} + \frac{1}{2} \right) \div \frac{5}{8} \\ & = \left( \frac{5}{9} + \frac{1}{2} \right) \div \frac{5}{8} \\ & = \frac{19}{18} \div \frac{5}{8} \\ & = \frac{76}{45} \\ & = 1\frac{31}{45} \end{aligned}$$

$$\begin{aligned} & \frac{4}{9} \times \left( \frac{4}{5} - \frac{1}{9} + \frac{1}{5} \right) \\ & = \frac{4}{9} \times \left( \frac{31}{45} + \frac{1}{5} \right) \\ & = \frac{4}{9} \times \frac{8}{9} \\ & = \frac{32}{81} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{8} + \frac{1}{2} - \frac{1}{8} \right) \times \frac{5}{9} \\ & = \left( \frac{7}{8} - \frac{1}{8} \right) \times \frac{5}{9} \\ & = \frac{3}{4} \times \frac{5}{9} \\ & = \frac{5}{12} \end{aligned}$$

$$\begin{aligned} & \left( \frac{8}{9} - \frac{4}{9} \times \frac{5}{8} \right) \div \frac{5}{6} \\ & = \left( \frac{8}{9} - \frac{5}{18} \right) \div \frac{5}{6} \\ & = \frac{11}{18} \div \frac{5}{6} \\ & = \frac{11}{15} \end{aligned}$$

# Order of Operations with Fractions (H)

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

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

Simplify each expression using the correct order of operations.

$$\frac{1}{2} \times \left( \frac{8}{9} - \frac{5}{9} + \frac{1}{4} \right)$$

$$\left( \frac{8}{9} - \frac{1}{2} \right) \div \frac{5}{6} + \frac{3}{4}$$

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

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

$$\frac{1}{6} \times \left( \frac{1}{3} + \frac{3}{4} \right) \div \frac{5}{6}$$

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

$$\frac{1}{3} \div \left( \frac{1}{6} + \frac{4}{5} \times \frac{1}{8} \right)$$

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

$$\frac{1}{4} \div \left( \frac{1}{8} + \frac{7}{8} \times \frac{2}{5} \right)$$

# Order of Operations with Fractions (H)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{1}{2} \times \left( \frac{8}{9} - \frac{5}{9} + \frac{1}{4} \right) \\ &= \frac{1}{2} \times \left( \frac{1}{3} + \frac{1}{4} \right) \\ &= \frac{1}{2} \times \frac{7}{12} \\ &= \frac{7}{24} \end{aligned}$$

$$\begin{aligned} & \left( \frac{8}{9} - \frac{1}{2} \right) \div \frac{5}{6} + \frac{3}{4} \\ &= \frac{7}{18} \div \frac{5}{6} + \frac{3}{4} \\ &= \frac{7}{15} + \frac{3}{4} \\ &= \frac{73}{60} \\ &= 1\frac{13}{60} \end{aligned}$$

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

$$\begin{aligned} & \frac{3}{5} \times \left( \frac{5}{8} + \frac{5}{9} \right) \div \frac{2}{3} \\ &= \frac{3}{5} \times \frac{85}{72} \div \frac{2}{3} \\ &= \frac{17}{24} \div \frac{2}{3} \\ &= \frac{17}{16} \\ &= 1\frac{1}{16} \end{aligned}$$

$$\begin{aligned} & \frac{1}{6} \times \left( \frac{1}{3} + \frac{3}{4} \right) \div \frac{5}{6} \\ &= \frac{1}{6} \times \frac{13}{12} \div \frac{5}{6} \\ &= \frac{13}{72} \div \frac{5}{6} \\ &= \frac{13}{60} \end{aligned}$$

$$\begin{aligned} & \frac{5}{9} - \frac{1}{6} \div \left( \frac{1}{8} + \frac{2}{5} \right) \\ &= \frac{5}{9} - \frac{1}{6} \div \frac{21}{40} \\ &= \frac{5}{9} - \frac{20}{63} \\ &= \frac{5}{21} \end{aligned}$$

$$\begin{aligned} & \frac{1}{3} \div \left( \frac{1}{6} + \frac{4}{5} \times \frac{1}{8} \right) \\ &= \frac{1}{3} \div \left( \frac{1}{6} + \frac{1}{10} \right) \\ &= \frac{1}{3} \div \frac{4}{15} \\ &= \frac{5}{4} \\ &= 1\frac{1}{4} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} \div \frac{8}{9} \times \left( \frac{5}{9} - \frac{1}{2} \right) \\ &= \frac{1}{5} \div \frac{8}{9} \times \frac{1}{18} \\ &= \frac{9}{40} \times \frac{1}{18} \\ &= \frac{1}{80} \end{aligned}$$

$$\begin{aligned} & \frac{1}{4} \div \left( \frac{1}{8} + \frac{7}{8} \times \frac{2}{5} \right) \\ &= \frac{1}{4} \div \left( \frac{1}{8} + \frac{7}{20} \right) \\ &= \frac{1}{4} \div \frac{19}{40} \\ &= \frac{10}{19} \end{aligned}$$



# Order of Operations with Fractions (I)

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

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

Simplify each expression using the correct order of operations.

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

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

$$\left( \frac{7}{9} - \frac{2}{3} + \frac{1}{2} \right) \times \frac{1}{4}$$

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

$$\left( \frac{2}{3} \times \frac{7}{8} + \frac{7}{9} \right) \div \frac{3}{8}$$

$$\frac{3}{5} \div \left( \frac{3}{4} - \frac{2}{3} \times \frac{1}{5} \right)$$

$$\frac{4}{5} \times \frac{5}{6} \div \left( \frac{3}{8} + \frac{8}{9} \right)$$

$$\left( \frac{4}{9} + \frac{2}{5} - \frac{1}{3} \right) \div \frac{3}{5}$$

$$\left( \frac{8}{9} + \frac{1}{3} - \frac{4}{9} \right) \times \frac{4}{5}$$

# Order of Operations with Fractions (I)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{1}{4} \div \left( \frac{1}{8} + \frac{2}{9} \times \frac{1}{2} \right) \\ &= \frac{1}{4} \div \left( \frac{1}{8} + \frac{1}{9} \right) \\ &= \frac{1}{4} \div \frac{17}{72} \\ &= \frac{18}{17} \\ &= 1\frac{1}{17} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{4} \times \frac{4}{5} + \frac{5}{8} \right) \div \frac{2}{5} \\ &= \left( \frac{3}{5} + \frac{5}{8} \right) \div \frac{2}{5} \\ &= \frac{49}{40} \div \frac{2}{5} \\ &= \frac{49}{16} \\ &= 3\frac{1}{16} \end{aligned}$$

$$\begin{aligned} & \left( \frac{7}{9} - \frac{2}{3} + \frac{1}{2} \right) \times \frac{1}{4} \\ &= \left( \frac{1}{9} + \frac{1}{2} \right) \times \frac{1}{4} \\ &= \frac{11}{18} \times \frac{1}{4} \\ &= \frac{11}{72} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{3} + \frac{2}{3} - \frac{2}{5} \right) \times \frac{3}{8} \\ &= \left( 1 - \frac{2}{5} \right) \times \frac{3}{8} \\ &= \frac{3}{5} \times \frac{3}{8} \\ &= \frac{9}{40} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{3} \times \frac{7}{8} + \frac{7}{9} \right) \div \frac{3}{8} \\ &= \left( \frac{7}{12} + \frac{7}{9} \right) \div \frac{3}{8} \\ &= \frac{49}{36} \div \frac{3}{8} \\ &= \frac{98}{27} \\ &= 3\frac{17}{27} \end{aligned}$$

$$\begin{aligned} & \frac{3}{5} \div \left( \frac{3}{4} - \frac{2}{3} \times \frac{1}{5} \right) \\ &= \frac{3}{5} \div \left( \frac{3}{4} - \frac{2}{15} \right) \\ &= \frac{3}{5} \div \frac{37}{60} \\ &= \frac{36}{37} \end{aligned}$$

$$\begin{aligned} & \frac{4}{5} \times \frac{5}{6} \div \left( \frac{3}{8} + \frac{8}{9} \right) \\ &= \frac{4}{5} \times \frac{5}{6} \div \frac{91}{72} \\ &= \frac{2}{3} \div \frac{91}{72} \\ &= \frac{48}{91} \end{aligned}$$

$$\begin{aligned} & \left( \frac{4}{9} + \frac{2}{5} - \frac{1}{3} \right) \div \frac{3}{5} \\ &= \left( \frac{38}{45} - \frac{1}{3} \right) \div \frac{3}{5} \\ &= \frac{23}{45} \div \frac{3}{5} \\ &= \frac{23}{27} \end{aligned}$$

$$\begin{aligned} & \left( \frac{8}{9} + \frac{1}{3} - \frac{4}{9} \right) \times \frac{4}{5} \\ &= \left( \frac{11}{9} - \frac{4}{9} \right) \times \frac{4}{5} \\ &= \frac{7}{9} \times \frac{4}{5} \\ &= \frac{28}{45} \end{aligned}$$

## Order of Operations with Fractions (J)

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

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

Simplify each expression using the correct order of operations.

$$\frac{7}{9} \times \left( \frac{3}{8} + \frac{1}{2} - \frac{7}{8} \right)$$

$$\frac{2}{9} \times \left( \frac{3}{5} - \frac{2}{5} + \frac{1}{4} \right)$$

$$\left( \frac{2}{9} + \frac{4}{9} \right) \div \left( \frac{5}{6} - \frac{7}{9} \right)$$

$$\frac{3}{4} \times \left( \frac{7}{8} - \frac{4}{9} + \frac{1}{3} \right)$$

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

$$\left( \frac{1}{6} + \frac{2}{3} - \frac{4}{9} \right) \times \frac{3}{8}$$

$$\frac{3}{8} \div \left( \frac{3}{4} + \frac{3}{5} - \frac{2}{3} \right)$$

$$\left( \frac{1}{4} \div \frac{1}{2} \right) \times \frac{5}{6} + \frac{4}{5}$$

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

# Order of Operations with Fractions (J)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{7}{9} \times \left( \frac{3}{8} + \frac{1}{2} - \frac{7}{8} \right) \\ &= \frac{7}{9} \times \left( \frac{7}{8} - \frac{7}{8} \right) \\ &= \frac{7}{9} \times 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \times \left( \frac{3}{5} - \frac{2}{5} + \frac{1}{4} \right) \\ &= \frac{2}{9} \times \left( \frac{1}{5} + \frac{1}{4} \right) \\ &= \frac{2}{9} \times \frac{9}{20} \\ &= \frac{1}{10} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{9} + \frac{4}{9} \right) \div \left( \frac{5}{6} - \frac{7}{9} \right) \\ &= \frac{2}{3} \div \left( \frac{5}{6} - \frac{7}{9} \right) \\ &= \frac{2}{3} \div \frac{1}{18} \\ &= 12 \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times \left( \frac{7}{8} - \frac{4}{9} + \frac{1}{3} \right) \\ &= \frac{3}{4} \times \left( \frac{31}{72} + \frac{1}{3} \right) \\ &= \frac{3}{4} \times \frac{55}{72} \\ &= \frac{55}{96} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \div \left( \frac{8}{9} + \frac{4}{9} - \frac{7}{8} \right) \\ &= \frac{3}{4} \div \left( \frac{4}{3} - \frac{7}{8} \right) \\ &= \frac{3}{4} \div \frac{11}{24} \\ &= \frac{18}{11} \\ &= 1\frac{7}{11} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{6} + \frac{2}{3} - \frac{4}{9} \right) \times \frac{3}{8} \\ &= \left( \frac{5}{6} - \frac{4}{9} \right) \times \frac{3}{8} \\ &= \frac{7}{18} \times \frac{3}{8} \\ &= \frac{7}{48} \end{aligned}$$

$$\begin{aligned} & \frac{3}{8} \div \left( \frac{3}{4} + \frac{3}{5} - \frac{2}{3} \right) \\ &= \frac{3}{8} \div \left( \frac{27}{20} - \frac{2}{3} \right) \\ &= \frac{3}{8} \div \frac{41}{60} \\ &= \frac{45}{82} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{4} \div \frac{1}{2} \right) \times \frac{5}{6} + \frac{4}{5} \\ &= \frac{1}{2} \times \frac{5}{6} + \frac{4}{5} \\ &= \frac{5}{12} + \frac{4}{5} \\ &= \frac{73}{60} \\ &= 1\frac{13}{60} \end{aligned}$$

$$\begin{aligned} & \frac{1}{8} \times \left( \frac{1}{3} \div \frac{2}{9} + \frac{3}{8} \right) \\ &= \frac{1}{8} \times \left( \frac{3}{2} + \frac{3}{8} \right) \\ &= \frac{1}{8} \times \frac{15}{8} \\ &= \frac{15}{64} \end{aligned}$$