

Order of Operations with Fractions (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\frac{7}{8} \times \frac{4}{5} + \frac{3}{4} - \frac{1}{4}\right) \div \frac{7}{9}$$

$$\left(\frac{3}{4} + \frac{2}{9} - \frac{8}{9} \times \frac{7}{8}\right) \div \frac{1}{6}$$

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{7}{8} \times \frac{4}{5} + \frac{3}{4} - \frac{1}{4} \right) \div \frac{7}{9} \\ &= \left(\frac{7}{10} + \frac{3}{4} - \frac{1}{4} \right) \div \frac{7}{9} \\ &= \left(\frac{29}{20} - \frac{1}{4} \right) \div \frac{7}{9} \\ &= \frac{6}{5} \div \frac{7}{9} \\ &= \frac{54}{35} \\ &= 1\frac{19}{35} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4} + \frac{2}{9} - \frac{8}{9} \times \frac{7}{8} \right) \div \frac{1}{6} \\ &= \left(\frac{3}{4} + \frac{2}{9} - \frac{7}{9} \right) \div \frac{1}{6} \\ &= \left(\frac{35}{36} - \frac{7}{9} \right) \div \frac{1}{6} \\ &= \frac{7}{36} \div \frac{1}{6} \\ &= \frac{7}{6} \\ &= 1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} & \left(\left(\frac{3}{4} + \frac{1}{5} - \frac{1}{2} \right) \times \frac{5}{6} \right) \div \frac{4}{9} \\ &= \left(\left(\frac{19}{20} - \frac{1}{2} \right) \times \frac{5}{6} \right) \div \frac{4}{9} \\ &= \left(\frac{9}{20} \times \frac{5}{6} \right) \div \frac{4}{9} \\ &= \frac{3}{8} \div \frac{4}{9} \\ &= \frac{27}{32} \end{aligned}$$

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

Order of Operations with Fractions (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

Order of Operations with Fractions (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{8}{9} + \frac{5}{9} \times \frac{7}{8} \right) \div \frac{4}{9} - \frac{1}{4} \\ & = \left(\frac{8}{9} + \frac{35}{72} \right) \div \frac{4}{9} - \frac{1}{4} \\ & = \frac{11}{8} \div \frac{4}{9} - \frac{1}{4} \\ & = \frac{99}{32} - \frac{1}{4} \\ & = \frac{91}{32} \\ & = 2\frac{27}{32} \end{aligned}$$

$$\begin{aligned} & \left(\left(\frac{5}{6} + \frac{1}{9} \right) \div \frac{1}{2} - \frac{2}{3} \right) \times \frac{3}{4} \\ & = \left(\frac{17}{18} \div \frac{1}{2} - \frac{2}{3} \right) \times \frac{3}{4} \\ & = \left(\frac{17}{9} - \frac{2}{3} \right) \times \frac{3}{4} \\ & = \frac{11}{9} \times \frac{3}{4} \\ & = \frac{11}{12} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4} + \frac{7}{9} - \frac{2}{9} \times \frac{1}{2} \right) \div \frac{2}{3} \\ & = \left(\frac{3}{4} + \frac{7}{9} - \frac{1}{9} \right) \div \frac{2}{3} \\ & = \left(\frac{55}{36} - \frac{1}{9} \right) \div \frac{2}{3} \\ & = \frac{17}{12} \div \frac{2}{3} \\ & = \frac{17}{8} \\ & = 2\frac{1}{8} \end{aligned}$$

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

Order of Operations with Fractions (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

Order of Operations with Fractions (C)

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Simplify each expression using the correct order of operations.

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

$$\begin{aligned} & \frac{3}{4} \times \left(\frac{2}{5} - \frac{1}{6} \right) \div \frac{1}{2} + \frac{1}{8} \\ &= \frac{3}{4} \times \frac{7}{30} \div \frac{1}{2} + \frac{1}{8} \\ &= \frac{7}{40} \div \frac{1}{2} + \frac{1}{8} \\ &= \frac{7}{20} + \frac{1}{8} \\ &= \frac{19}{40} \end{aligned}$$

$$\begin{aligned} & \frac{2}{5} \div \left(\left(\frac{1}{5} - \frac{1}{9} + \frac{4}{9} \right) \times \frac{1}{2} \right) \\ &= \frac{2}{5} \div \left(\left(\frac{4}{45} + \frac{4}{9} \right) \times \frac{1}{2} \right) \\ &= \frac{2}{5} \div \left(\frac{8}{15} \times \frac{1}{2} \right) \\ &= \frac{2}{5} \div \frac{4}{15} \\ &= \frac{3}{2} \\ &= 1\frac{1}{2} \end{aligned}$$

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

Order of Operations with Fractions (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

Order of Operations with Fractions (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{3}{5} + \frac{3}{8} \right) \times \left(\frac{3}{4} - \frac{2}{3} \div \frac{8}{9} \right) \\ &= \frac{39}{40} \times \left(\frac{3}{4} - \frac{2}{3} \div \frac{8}{9} \right) \\ &= \frac{39}{40} \times \left(\frac{3}{4} - \frac{3}{4} \right) \\ &= \frac{39}{40} \times 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \times \left(\frac{2}{5} \div \frac{3}{5} - \frac{1}{9} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \left(\frac{2}{3} - \frac{1}{9} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \left(\frac{5}{9} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \frac{7}{9} \\ &= \frac{35}{54} \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{8} + \frac{1}{2} \div \frac{1}{3} - \frac{2}{5} \right) \times \frac{8}{9} \\ &= \left(\frac{5}{8} + \frac{3}{2} - \frac{2}{5} \right) \times \frac{8}{9} \\ &= \left(\frac{17}{8} - \frac{2}{5} \right) \times \frac{8}{9} \\ &= \frac{69}{40} \times \frac{8}{9} \\ &= \frac{23}{15} \\ &= 1 \frac{8}{15} \end{aligned}$$

$$\begin{aligned} & \left(\frac{4}{9} + \frac{1}{6} - \frac{2}{5} \times \frac{1}{9} \right) \div \frac{4}{5} \\ &= \left(\frac{4}{9} + \frac{1}{6} - \frac{2}{45} \right) \div \frac{4}{5} \\ &= \left(\frac{11}{18} - \frac{2}{45} \right) \div \frac{4}{5} \\ &= \frac{17}{30} \div \frac{4}{5} \\ &= \frac{17}{24} \end{aligned}$$

Order of Operations with Fractions (E)

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Simplify each expression using the correct order of operations.

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

$$\frac{2}{9} \div \left(\frac{7}{8} - \frac{1}{6} \times \frac{2}{3} + \frac{1}{8}\right)$$

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

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

Order of Operations with Fractions (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{3}{4} \times \frac{4}{5} + \frac{3}{5} - \frac{7}{9} \right) \div \frac{2}{9} \\ &= \left(\frac{3}{5} + \frac{3}{5} - \frac{7}{9} \right) \div \frac{2}{9} \\ &= \left(\frac{6}{5} - \frac{7}{9} \right) \div \frac{2}{9} \\ &= \frac{19}{45} \div \frac{2}{9} \\ &= \frac{19}{10} \\ &= 1\frac{9}{10} \end{aligned}$$

$$\begin{aligned} & \frac{2}{9} \div \left(\frac{7}{8} - \frac{1}{6} \times \frac{2}{3} + \frac{1}{8} \right) \\ &= \frac{2}{9} \div \left(\frac{7}{8} - \frac{1}{9} + \frac{1}{8} \right) \\ &= \frac{2}{9} \div \left(\frac{55}{72} + \frac{1}{8} \right) \\ &= \frac{2}{9} \div \frac{8}{9} \\ &= \frac{1}{4} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} \div \frac{2}{9} + \frac{1}{8} - \frac{3}{4} \right) \times \frac{8}{9} \\ &= \left(\frac{9}{4} + \frac{1}{8} - \frac{3}{4} \right) \times \frac{8}{9} \\ &= \left(\frac{19}{8} - \frac{3}{4} \right) \times \frac{8}{9} \\ &= \frac{13}{8} \times \frac{8}{9} \\ &= \frac{13}{9} \\ &= 1\frac{4}{9} \end{aligned}$$

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

Order of Operations with Fractions (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\frac{1}{4} \div \left(\frac{7}{8} + \frac{2}{3} - \frac{1}{8} \right) \times \frac{2}{9}$$

$$\frac{1}{2} \times \left(\frac{7}{9} \div \frac{1}{6} - \frac{5}{6} + \frac{3}{4} \right)$$

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

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

Order of Operations with Fractions (F)

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{1}{4} \div \left(\frac{7}{8} + \frac{2}{3} - \frac{1}{8} \right) \times \frac{2}{9} \\ &= \frac{1}{4} \div \left(\frac{37}{24} - \frac{1}{8} \right) \times \frac{2}{9} \\ &= \frac{1}{4} \div \frac{17}{12} \times \frac{2}{9} \\ &= \frac{3}{17} \times \frac{2}{9} \\ &= \frac{2}{51} \end{aligned}$$

$$\begin{aligned} & \frac{1}{2} \times \left(\frac{7}{9} \div \frac{1}{6} - \frac{5}{6} + \frac{3}{4} \right) \\ &= \frac{1}{2} \times \left(\frac{14}{3} - \frac{5}{6} + \frac{3}{4} \right) \\ &= \frac{1}{2} \times \left(\frac{23}{6} + \frac{3}{4} \right) \\ &= \frac{1}{2} \times \frac{55}{12} \\ &= \frac{55}{24} \\ &= 2\frac{7}{24} \end{aligned}$$

$$\begin{aligned} & \frac{8}{9} \div \frac{1}{5} \times \left(\frac{4}{5} + \frac{1}{3} - \frac{2}{3} \right) \\ &= \frac{8}{9} \div \frac{1}{5} \times \left(\frac{17}{15} - \frac{2}{3} \right) \\ &= \frac{8}{9} \div \frac{1}{5} \times \frac{7}{15} \\ &= \frac{40}{9} \times \frac{7}{15} \\ &= \frac{56}{27} \\ &= 2\frac{2}{27} \end{aligned}$$

$$\begin{aligned} & \left(\frac{5}{9} + \frac{4}{9} \right) \times \frac{7}{9} \div \frac{3}{5} - \frac{1}{2} \\ &= \frac{1 \times 7}{9} \div \frac{3}{5} - \frac{1}{2} \\ &= \frac{7}{9} \div \frac{3}{5} - \frac{1}{2} \\ &= \frac{35}{27} - \frac{1}{2} \\ &= \frac{43}{54} \end{aligned}$$

Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$$\left(\frac{3}{4} \times \left(\frac{2}{3} - \frac{2}{5} \right) \right) \div \frac{1}{8} + \frac{7}{8}$$

Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \frac{4}{9} \times \left(\frac{4}{5} \div \frac{3}{4} - \frac{7}{9} + \frac{3}{5} \right) \\ &= \frac{4}{9} \times \left(\frac{16}{15} - \frac{7}{9} + \frac{3}{5} \right) \\ &= \frac{4}{9} \times \left(\frac{13}{45} + \frac{3}{5} \right) \\ &= \frac{4}{9} \times \frac{8}{9} \\ &= \frac{32}{81} \end{aligned}$$

$$\begin{aligned} & \frac{5}{8} \times \left(\frac{4}{5} + \frac{2}{3} \right) \div \frac{1}{8} - \frac{8}{9} \\ &= \frac{5}{8} \times \frac{22}{15} \div \frac{1}{8} - \frac{8}{9} \\ &= \frac{11}{12} \div \frac{1}{8} - \frac{8}{9} \\ &= \frac{22}{3} - \frac{8}{9} \\ &= \frac{58}{9} \\ &= 6\frac{4}{9} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} \times \frac{3}{8} - \frac{1}{8} \right) \div \frac{3}{4} + \frac{5}{8} \\ &= \left(\frac{3}{16} - \frac{1}{8} \right) \div \frac{3}{4} + \frac{5}{8} \\ &= \frac{1}{16} \div \frac{3}{4} + \frac{5}{8} \\ &= \frac{1}{12} + \frac{5}{8} \\ &= \frac{17}{24} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4} \times \left(\frac{2}{3} - \frac{2}{5} \right) \right) \div \frac{1}{8} + \frac{7}{8} \\ &= \left(\frac{3}{4} \times \frac{4}{15} \right) \div \frac{1}{8} + \frac{7}{8} \\ &= \frac{1}{5} \div \frac{1}{8} + \frac{7}{8} \\ &= \frac{8}{5} + \frac{7}{8} \\ &= \frac{99}{40} \\ &= 2\frac{19}{40} \end{aligned}$$

Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\frac{5}{6} + \frac{5}{9} - \frac{4}{9}\right) \div \left(\frac{7}{9} \times \frac{1}{6}\right)$$

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

$$\left(\frac{2}{9} \div \frac{1}{3} + \frac{1}{4} - \frac{7}{9}\right) \times \frac{8}{9}$$

$$\left(\frac{1}{9} \div \frac{2}{3} - \frac{1}{6}\right) \times \left(\frac{4}{5} + \frac{7}{8}\right)$$

Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{5}{6} + \frac{5}{9} - \frac{4}{9} \right) \div \left(\frac{7}{9} \times \frac{1}{6} \right) \\ &= \left(\frac{25}{18} - \frac{4}{9} \right) \div \left(\frac{7}{9} \times \frac{1}{6} \right) \\ &= \frac{17}{18} \div \left(\frac{7}{9} \times \frac{1}{6} \right) \\ &= \frac{17}{18} \div \frac{7}{54} \\ &= \frac{51}{7} \\ &= 7\frac{2}{7} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} + \frac{1}{3} - \frac{1}{6} \times \left(\frac{1}{2} \div \frac{5}{8} \right) \\ &= \frac{1}{5} + \frac{1}{3} - \frac{1}{6} \times \frac{4}{5} \\ &= \frac{1}{5} + \frac{1}{3} - \frac{2}{15} \\ &= \frac{8}{15} - \frac{2}{15} \\ &= \frac{2}{5} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{9} \div \frac{1}{3} + \frac{1}{4} - \frac{7}{9} \right) \times \frac{8}{9} \\ &= \left(\frac{2}{3} + \frac{1}{4} - \frac{7}{9} \right) \times \frac{8}{9} \\ &= \left(\frac{11}{12} - \frac{7}{9} \right) \times \frac{8}{9} \\ &= \frac{5}{36} \times \frac{8}{9} \\ &= \frac{10}{81} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{9} \div \frac{2}{3} - \frac{1}{6} \right) \times \left(\frac{4}{5} + \frac{7}{8} \right) \\ &= \left(\frac{1}{6} - \frac{1}{6} \right) \times \left(\frac{4}{5} + \frac{7}{8} \right) \\ &= 0 \times \left(\frac{4}{5} + \frac{7}{8} \right) \\ &= 0 \times \frac{67}{40} \\ &= 0 \end{aligned}$$

Order of Operations with Fractions (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

Order of Operations with Fractions (I)

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\frac{1}{5} - \frac{1}{8} \right) \times \left(\frac{1}{9} + \frac{1}{6} \right) \div \frac{1}{3} \\ &= \frac{3}{40} \times \left(\frac{1}{9} + \frac{1}{6} \right) \div \frac{1}{3} \\ &= \frac{3}{40} \times \frac{5}{18} \div \frac{1}{3} \\ &= \frac{1}{48} \div \frac{1}{3} \\ &= \frac{1}{16} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{6} + \frac{3}{4} \right) \div \frac{1}{4} - \frac{1}{5} \times \frac{5}{8} \\ &= \frac{11}{12} \div \frac{1}{4} - \frac{1}{5} \times \frac{5}{8} \\ &= \frac{11}{3} - \frac{1}{5} \times \frac{5}{8} \\ &= \frac{11}{3} - \frac{1}{8} \\ &= \frac{85}{24} \\ &= 3\frac{13}{24} \end{aligned}$$

$$\begin{aligned} & \frac{5}{6} \times \left(\frac{7}{9} - \frac{1}{3} \right) \div \left(\frac{2}{5} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \frac{4}{9} \div \left(\frac{2}{5} + \frac{2}{9} \right) \\ &= \frac{5}{6} \times \frac{4}{9} \div \frac{28}{45} \\ &= \frac{10}{27} \div \frac{28}{45} \\ &= \frac{25}{42} \end{aligned}$$

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

Order of Operations with Fractions (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\frac{1}{5} \div \left(\frac{1}{8} + \frac{7}{8} - \frac{3}{5}\right)\right) \times \frac{2}{9}$$

$$\left(\frac{2}{5} \times \frac{5}{9} - \frac{1}{8}\right) \div \frac{7}{8} + \frac{1}{4}$$

$$\left(\frac{2}{3} + \frac{7}{9}\right) \times \left(\frac{7}{8} - \frac{1}{4}\right) \div \frac{1}{2}$$

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

Order of Operations with Fractions (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\begin{aligned} & \left(\frac{2}{5} \times \frac{5}{9} - \frac{1}{8} \right) \div \frac{7}{8} + \frac{1}{4} \\ &= \left(\frac{2}{9} - \frac{1}{8} \right) \div \frac{7}{8} + \frac{1}{4} \\ &= \frac{7}{72} \div \frac{7}{8} + \frac{1}{4} \\ &= \frac{1}{9} + \frac{1}{4} \\ &= \frac{13}{36} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3} + \frac{7}{9} \right) \times \left(\frac{7}{8} - \frac{1}{4} \right) \div \frac{1}{2} \\ &= \frac{13}{9} \times \left(\frac{7}{8} - \frac{1}{4} \right) \div \frac{1}{2} \\ &= \frac{13}{9} \times \frac{5}{8} \div \frac{1}{2} \\ &= \frac{65}{72} \div \frac{1}{2} \\ &= \frac{65}{36} \\ &= 1\frac{29}{36} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{4} + \frac{3}{8} \times \frac{8}{9} - \frac{1}{5} \right) \div \frac{1}{6} \\ &= \left(\frac{1}{4} + \frac{1}{3} - \frac{1}{5} \right) \div \frac{1}{6} \\ &= \left(\frac{7}{12} - \frac{1}{5} \right) \div \frac{1}{6} \\ &= \frac{23}{60} \div \frac{1}{6} \\ &= \frac{23}{10} \\ &= 2\frac{3}{10} \end{aligned}$$