# Order of Operations with Fractions (A)

Name:

Date:

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

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

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

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

### Order of Operations with Fractions (A)

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

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

$$= \frac{1}{12} \div \frac{1}{3} + \left(\frac{4}{5}\right)^{2}$$

$$= \frac{1}{12} \div \frac{1}{3} + \frac{16}{25}$$

$$= \frac{\frac{1}{4} + \frac{16}{25}}{\frac{100}{100}}$$

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

$$= \left(\frac{2}{3}\right)^2 \div \frac{13}{36} \times \frac{1}{5}$$

$$= \frac{4}{9} \div \frac{13}{36} \times \frac{1}{5}$$

$$= \frac{16}{13} \times \frac{1}{5}$$

$$= \frac{16}{65}$$

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

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

$$= \left(\frac{3}{4}\right)^3 \div \frac{5}{16}$$

$$= \frac{\frac{27}{64}}{\frac{5}{16}} \div \frac{5}{16}$$

$$= \frac{\frac{27}{20}}{\frac{7}{20}}$$

$$= 1\frac{\frac{7}{20}}{\frac{1}{20}}$$

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

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

$$= \left(\frac{4}{9}\right)^2 \div \frac{1}{18}$$

$$= \frac{16}{81} \div \frac{1}{18}$$

$$= \frac{32}{9}$$

$$= 3\frac{5}{9}$$

## Order of Operations with Fractions (B)

Name:

Date:

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

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

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

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

### Order of Operations with Fractions (B)

Name:

Date:

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

$$= \frac{7}{30} \times \left(\left(\frac{5}{8}\right)^2 \div \frac{1}{6}\right)$$

$$= \frac{7}{30} \times \left(\frac{25}{64} \div \frac{1}{6}\right)$$

$$= \frac{7}{30} \times \frac{75}{32}$$

$$= \frac{35}{64}$$

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

$$= \left(\frac{25}{36} + \frac{5}{9} - \frac{1}{9}\right) \times \frac{4}{5}$$

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

$$= \frac{41}{36} \times \frac{4}{5}$$

$$= \frac{41}{45}$$

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

$$= \frac{3}{5} \times \left( \frac{25}{36} + \frac{5}{9} - \frac{1}{2} \right)$$

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

$$= \frac{3}{5} \times \frac{3}{4}$$

$$= \frac{9}{20}$$

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

$$= \left(\frac{1}{36} \div \frac{1}{8} + \frac{2}{5}\right) \times \frac{1}{2}$$

$$= \left(\frac{2}{9} + \frac{2}{5}\right) \times \frac{1}{2}$$

$$= \frac{28}{45} \times \frac{1}{2}$$

$$= \frac{14}{45}$$

## Order of Operations with Fractions (C)

Name:

Date:

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

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

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

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

### Order of Operations with Fractions (C)

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

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

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

$$= \frac{2}{9} \times \frac{41}{20}$$

$$= \frac{41}{90}$$

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

$$= \frac{10}{9} \times \left(\frac{4}{5} - \left(\frac{3}{5}\right)^2\right)$$

$$= \frac{10}{9} \times \left(\frac{4}{5} - \frac{9}{25}\right)$$

$$= \frac{10}{9} \times \frac{11}{25}$$

$$= \frac{22}{45}$$

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

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

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

$$= \frac{1}{8} \div \frac{1}{8}$$

$$= 1$$

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

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

$$= \left(\frac{19}{24} - \frac{1}{8}\right) \div \frac{4}{9}$$

$$= \frac{2}{3} \div \frac{4}{9}$$

$$= \frac{3}{2}$$

$$= 1\frac{1}{2}$$

## Order of Operations with Fractions (D)

Name:

Date:

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

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

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

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

### Order of Operations with Fractions (D)

Name:	
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Date:

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

$$= \frac{2}{9} \times \left( \frac{25}{36} \div \frac{1}{8} - \frac{2}{3} \right)$$

$$= \frac{2}{9} \times \left( \frac{50}{9} - \frac{2}{3} \right)$$

$$= \frac{2}{9} \times \frac{44}{9}$$

$$= \frac{88}{81}$$

$$= 1\frac{7}{81}$$

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

$$= \frac{2}{5} \times \left(\frac{13}{18} + \frac{7}{9}\right)^2$$

$$= \frac{2}{5} \times \left(\frac{3}{2}\right)^2$$

$$= \frac{2}{5} \times \frac{9}{4}$$

$$= \frac{9}{10}$$

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

$$= \frac{1}{2} \times \left(\frac{8}{9} - \frac{2}{9} + \frac{1}{16}\right)$$

$$= \frac{1}{2} \times \left(\frac{2}{3} + \frac{1}{16}\right)$$

$$= \frac{1}{2} \times \frac{35}{48}$$

$$= \frac{35}{96}$$

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

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

$$= \frac{1}{9} \div \frac{1}{6} - \frac{1}{81}$$

$$= \frac{2}{3} - \frac{1}{81}$$

$$= \frac{53}{81}$$

## Order of Operations with Fractions (E)

Name:

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

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

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

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

### Order of Operations with Fractions (E)

Name: Date:

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

$$= \frac{5}{9} \times \frac{2}{5} \div \left( \frac{1}{36} + \frac{7}{8} \right)$$

$$= \frac{5}{9} \times \frac{2}{5} \div \frac{65}{72}$$

$$= \frac{2}{9} \div \frac{65}{72}$$

$$= \frac{16}{65}$$

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

$$= \left(\frac{1}{3} - \frac{4}{81}\right) \times \left(\frac{3}{4} \div \frac{2}{3}\right)$$

$$= \frac{23}{81} \times \left(\frac{3}{4} \div \frac{2}{3}\right)$$

$$= \frac{23}{81} \times \frac{9}{8}$$

$$= \frac{23}{72}$$

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

$$= \frac{2}{3} \div \left( \frac{25}{36} - \frac{1}{6} + \frac{7}{9} \right)$$

$$= \frac{2}{3} \div \left( \frac{19}{36} + \frac{7}{9} \right)$$

$$= \frac{2}{3} \div \frac{47}{36}$$

$$= \frac{24}{47}$$

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

$$= \frac{14}{45} \times \left(\frac{\frac{1}{2}}{2}\right)^2 \div \frac{2}{3}$$

$$= \frac{14}{45} \times \frac{1}{4} \div \frac{2}{3}$$

$$= \frac{\frac{7}{90} \div \frac{2}{3}}{\frac{2}{3}}$$

$$= \frac{\frac{7}{60}}{\frac{1}{60}}$$

## Order of Operations with Fractions (F)

Name:

Date:

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

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

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

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

#### Order of Operations with Fractions (F)

Name:	
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Date:

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

$$= \left(\frac{7}{9}\right)^2 \div \left(\frac{4}{9} \times \frac{47}{36}\right)$$

$$= \left(\frac{7}{9}\right)^2 \div \frac{47}{81}$$

$$= \frac{49}{81} \div \frac{47}{81}$$

$$= \frac{49}{47}$$

$$= 1\frac{2}{47}$$

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

$$= \left(\frac{1}{5} \times \frac{8}{9} - \frac{1}{36}\right) \div \frac{3}{5}$$

$$= \left(\frac{8}{45} - \frac{1}{36}\right) \div \frac{3}{5}$$

$$= \frac{3}{20} \div \frac{3}{5}$$

$$= \frac{1}{4}$$

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

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

$$= \left(\frac{25}{36} - \frac{1}{4}\right) \times \frac{7}{8}$$

$$= \frac{4}{9} \times \frac{7}{8}$$

$$= \frac{7}{18}$$

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

$$= \frac{2}{5} \div \left( \frac{9}{16} \times \frac{1}{9} + \frac{1}{6} \right)$$

$$= \frac{2}{5} \div \left( \frac{1}{16} + \frac{1}{6} \right)$$

$$= \frac{2}{5} \div \frac{11}{48}$$

$$= \frac{96}{55}$$

$$= 1\frac{41}{55}$$

## Order of Operations with Fractions (G)

Name:

Date:

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

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

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

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

### Order of Operations with Fractions (G)

Name: Date:

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

$$= \left(\frac{3}{4} - \frac{1}{16}\right) \times \frac{8}{9} \div \frac{3}{8}$$

$$= \frac{11}{16} \times \frac{8}{9} \div \frac{3}{8}$$

$$= \frac{11}{18} \div \frac{3}{8}$$

$$= \frac{44}{27}$$

$$= 1\frac{17}{27}$$

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

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

$$= \frac{7}{18} \div \frac{3}{5} - \frac{4}{9}$$

$$= \frac{35}{54} - \frac{4}{9}$$

$$= \frac{11}{54}$$

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

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

$$= \left(\frac{17}{15} - \frac{4}{9}\right) \div \frac{1}{9}$$

$$= \frac{31}{45} \div \frac{1}{9}$$

$$= \frac{31}{5}$$

$$= 6\frac{1}{5}$$

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

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

$$= \left(\frac{2}{3}\right)^3 \times \frac{1}{2}$$

$$= \frac{8}{27} \times \frac{1}{2}$$

$$= \frac{4}{27}$$

## Order of Operations with Fractions (H)

Name:

Date:

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

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

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

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

#### Order of Operations with Fractions (H)

Name:	Date:

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

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

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

$$= \frac{1}{5} \div \frac{1}{64}$$

$$= \frac{64}{5}$$

$$= 12\frac{4}{5}$$

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

$$= \left(\frac{2}{9} + \frac{1}{36}\right) \div \left(\frac{2}{5} \times \frac{3}{8}\right)$$

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

$$= \frac{1}{4} \div \frac{3}{20}$$

$$= \frac{5}{3}$$

$$= 1\frac{2}{3}$$

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

$$= \frac{2}{3} \div \left(\frac{3}{8} + \frac{27}{64} \times \frac{4}{9}\right)$$

$$= \frac{2}{3} \div \left(\frac{3}{8} + \frac{3}{16}\right)$$

$$= \frac{2}{3} \div \frac{9}{16}$$

$$= \frac{32}{27}$$

$$= 1\frac{5}{27}$$

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

$$= \frac{\frac{5}{4}}{\frac{1}{8}} \times \frac{7}{8} + \left(\frac{1}{4}\right)^{3}$$

$$= \frac{\frac{5}{4}}{\frac{1}{8}} \times \frac{7}{8} + \frac{1}{64}$$

$$= \frac{\frac{35}{32}}{\frac{1}{64}}$$

$$= \frac{71}{64}$$

$$= 1\frac{7}{64}$$

## Order of Operations with Fractions (I)

Name:

Date:

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

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

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

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

#### Order of Operations with Fractions (I)

Date:

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

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

$$= \frac{3}{20} \div \left(\frac{2}{9} + \frac{1}{5}\right)$$

$$= \frac{3}{20} \div \frac{19}{45}$$

$$= \frac{27}{76}$$

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

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

$$= \frac{1}{2} \times \left(\frac{64}{81} \div \frac{7}{9}\right)$$

$$= \frac{1}{2} \times \frac{64}{63}$$

$$= \frac{32}{63}$$

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

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

$$= \frac{2}{5} \div \left(\frac{13}{36} - \frac{1}{4}\right)$$

$$= \frac{2}{5} \div \frac{1}{9}$$

$$= \frac{18}{5}$$

$$= 3\frac{3}{5}$$

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

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

$$= \left(\frac{25}{81} \div \frac{4}{9}\right) \times \frac{3}{4}$$

$$= \frac{25}{36} \times \frac{3}{4}$$

$$= \frac{25}{48}$$

## Order of Operations with Fractions (J)

Name:

Date:

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

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

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

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

#### Order of Operations with Fractions (J)

Name:

Date:

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

$$= \left(\frac{1}{2}\right)^2 \div \left(\frac{2}{15} + \frac{1}{4}\right)$$

$$= \left(\frac{1}{2}\right)^2 \div \frac{23}{60}$$

$$= \frac{1}{4} \div \frac{23}{60}$$

$$= \frac{15}{22}$$

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

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

$$= \frac{1}{4} \times \left(\frac{56}{45} - \frac{4}{9}\right)$$

$$= \frac{1}{4} \times \frac{4}{5}$$

$$= \frac{1}{5}$$

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

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

$$= \frac{3}{5} + \frac{4}{5} \times \frac{9}{5}$$

$$= \frac{3}{5} + \frac{36}{25}$$

$$= \frac{51}{25}$$

$$= 2\frac{1}{25}$$

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

$$= \left(\frac{49}{81} \div \frac{7}{8} - \frac{2}{9}\right) \times \frac{1}{2}$$

$$= \left(\frac{56}{81} - \frac{2}{9}\right) \times \frac{1}{2}$$

$$= \frac{38}{81} \times \frac{1}{2}$$

$$= \frac{19}{81}$$