## Order of Operations with Fractions (E)

Name:

Date:

Simplify each expression using the correct order of operations.

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

\_\_\_\_

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

## Order of Operations with Fractions (E)

Name:

\_\_\_\_\_

Date:

Simplify each expression using the correct order of operations.

$$\frac{5}{9} \times \frac{2}{5} \div \left(\left(\frac{1}{6}\right)^2 + \frac{7}{8}\right) \qquad \left(\frac{1}{3} - \left(\frac{2}{9}\right)^2\right) \times \left(\frac{3}{4} \div \frac{2}{3}\right) \\ = \frac{5}{9} \times \frac{2}{5} \div \left(\frac{1}{36} + \frac{7}{8}\right) \qquad = \left(\frac{1}{3} - \frac{4}{81}\right) \times \left(\frac{3}{4} \div \frac{2}{3}\right) \\ = \frac{5}{9} \times \frac{2}{5} \div \frac{65}{72} \qquad = \frac{23}{81} \times \left(\frac{3}{4} \div \frac{2}{3}\right) \\ = \frac{2}{9} \div \frac{65}{72} \qquad = \frac{23}{81} \times \frac{9}{8} \\ = \frac{16}{65} \qquad = \frac{23}{72}$$

$$\frac{2}{3} \div \left(\left(\frac{5}{6}\right)^2 - \frac{1}{6} + \frac{7}{9}\right) \qquad \left(\frac{1}{9} + \frac{1}{5}\right) \times \left(\frac{1}{2}\right)^2 \div \frac{2}{3} \\ = \frac{2}{3} \div \left(\frac{25}{36} - \frac{1}{6} + \frac{7}{9}\right) \qquad = \frac{14}{45} \times \left(\frac{1}{2}\right)^2 \div \frac{2}{3} \\ = \frac{2}{3} \div \left(\frac{19}{36} + \frac{7}{9}\right) \qquad = \frac{14}{45} \times \frac{1}{4} \div \frac{2}{3} \\ = \frac{2}{3} \div \frac{47}{36} \qquad = \frac{7}{90} \div \frac{2}{3} \\ = \frac{24}{47} \qquad = \frac{7}{60}$$