## Order of Operations with Fractions (F)

Name:

Date:

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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