## Order of Operations with Fractions (F)

Name:
Date: $\qquad$
Simplify each expression using the correct order of operations.

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

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

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

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

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

$=\left(\frac{7}{9}\right)^{2} \div\left(\frac{4}{9} \times \frac{47}{36}\right)$
$=\underline{\left(\frac{7}{9}\right)^{2}} \div \frac{47}{81}$
$=\underline{\frac{49}{81} \div \frac{47}{81}}$
$=\frac{49}{47}$
$=1 \frac{2}{47}$

$$
\begin{aligned}
& \left(\frac{4}{9}+\underline{\left(\frac{1}{2}\right)^{2}}-\frac{1}{4}\right) \times \frac{7}{8} \\
& =\left(\frac{4}{9}+\frac{1}{4}-\frac{1}{4}\right) \times \frac{7}{8} \\
& =\left(\frac{25}{36}-\frac{1}{4}\right) \times \frac{7}{8} \\
& =\frac{4}{9} \times \frac{7}{8} \\
& =\frac{7}{18}
\end{aligned}
$$

$$
\begin{aligned}
& \frac{2}{5} \div\left(\underline{\left.\left(\frac{3}{4}\right)^{2} \times \frac{1}{9}+\frac{1}{6}\right)}\right. \\
& =\frac{2}{5} \div\left(\frac{9}{16} \times \frac{1}{9}+\frac{1}{6}\right) \\
& =\frac{2}{5} \div\left(\frac{1}{16}+\frac{1}{6}\right) \\
& =\frac{2}{5} \div \frac{11}{48} \\
& =\frac{96}{55} \\
& =1 \frac{41}{55}
\end{aligned}
$$

