## Order of Operations with Fractions (B)

Name:
Date: $\qquad$
Simplify each expression using the correct order of operations.
$\frac{4}{5} \times\left(\left(\frac{1}{6}\right)^{2}+\frac{2}{3}\right) \div\left(-\frac{1}{2}\right)$
$\left(\left(-\frac{2}{3}\right)-\left(-\frac{2}{9}\right)\right)^{2} \times\left(\frac{3}{4}+\frac{3}{8}\right)$

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

## Order of Operations with Fractions (B)

Name:
Date: $\qquad$
Simplify each expression using the correct order of operations.
$\frac{4}{5} \times\left(\underline{\left(\frac{1}{6}\right)^{2}}+\frac{2}{3}\right) \div\left(-\frac{1}{2}\right)$
$\left(\underline{\left(-\frac{2}{3}\right)-\left(-\frac{2}{9}\right)}\right)^{2} \times\left(\frac{3}{4}+\frac{3}{8}\right)$
$=\frac{4}{5} \times\left(\frac{1}{36}+\frac{2}{3}\right) \div\left(-\frac{1}{2}\right)$
$=\left(-\frac{4}{9}\right)^{2} \times\left(\frac{3}{4}+\frac{3}{8}\right)$
$=\frac{4}{5} \times \frac{25}{36} \div\left(-\frac{1}{2}\right)$
$=\underline{\left(-\frac{4}{9}\right)^{2}} \times \frac{9}{8}$
$=\frac{5}{9} \div\left(-\frac{1}{2}\right)$
$=-\frac{10}{9}$
$=-1 \frac{1}{9}$
$=\frac{16}{\underline{81} \times \frac{9}{8}}$
$=\frac{2}{9}$

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

$$
\begin{aligned}
& \left(\frac{7}{9}+\underline{\left(\frac{1}{6}\right)^{2}} \div \frac{5}{8}\right) \times\left(-\frac{5}{6}\right) \\
& =\left(\frac{7}{9}+\frac{1}{36} \div \frac{5}{8}\right) \times\left(-\frac{5}{6}\right) \\
& =\left(\frac{7}{9}+\frac{2}{45}\right) \times\left(-\frac{5}{6}\right) \\
& =\frac{37}{45} \times\left(-\frac{5}{6}\right) \\
& =-\frac{37}{54}
\end{aligned}
$$

