## Order of Operations with Fractions (C)

Name:
Date: $\qquad$
Simplify each expression using the correct order of operations.
$\frac{2}{9} \times\left(\frac{1}{4}+\frac{1}{5} \div\left(\frac{1}{3}\right)^{2}\right)$
$\left(\frac{1}{3}+\frac{7}{9}\right) \times\left(\frac{4}{5}-\left(\frac{3}{5}\right)^{2}\right)$

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

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

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$$
\begin{array}{ll}
\frac{2}{9} \times\left(\frac{1}{4}+\frac{1}{5} \div \underline{\left.\left(\frac{1}{3}\right)^{2}\right)}\right. & \left(\underline{\frac{1}{3}+\frac{7}{9}}\right) \times\left(\frac{4}{5}-\left(\frac{3}{5}\right)^{2}\right) \\
=\frac{2}{9} \times\left(\frac{1}{4}+\frac{1}{5} \div \frac{1}{9}\right) & =\frac{10}{9} \times\left(\frac{4}{5}-\underline{\left.\left(\frac{3}{5}\right)^{2}\right)}\right. \\
=\frac{2}{9} \times\left(\frac{1}{4}+\frac{9}{5}\right) & =\frac{10}{9} \times\left(\frac{4}{5}-\frac{9}{25}\right) \\
=\frac{2}{9} \times \frac{41}{20} & =\frac{10}{9} \times \frac{11}{25} \\
=\frac{41}{90} & =\frac{22}{45}
\end{array}
$$

$$
\begin{aligned}
& \frac{1}{8} \div\left(\frac{2}{5} \times \frac{5}{8}-\underline{\left(\frac{1}{2}\right)^{3}}\right) \\
& =\frac{1}{8} \div\left(\frac{2}{5} \times \frac{5}{8}-\frac{1}{8}\right) \\
& =\frac{1}{8} \div\left(\frac{1}{4}-\frac{1}{8}\right) \\
& =\frac{1}{8} \div \frac{1}{8} \\
& =1
\end{aligned}
$$

$$
\begin{aligned}
& \left(\frac{5}{8}+\frac{1}{6}-\underline{\left(\frac{1}{2}\right)^{3}}\right) \div \frac{4}{9} \\
& =\left(\underline{\frac{5}{8}+\frac{1}{6}}-\frac{1}{8}\right) \div \frac{4}{9} \\
& =\left(\underline{\frac{19}{24}-\frac{1}{8}}\right) \div \frac{4}{9} \\
& =\frac{2}{3} \div \frac{4}{9} \\
& =\frac{3}{2} \\
& =1 \frac{1}{2}
\end{aligned}
$$

