Order of Operations with Fractions (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$\left(-\frac{3}{4}\right)^2 \times \left(\frac{7}{9} - \left(-\frac{1}{5}\right)\right)$

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

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

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

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

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Simplify each expression using the correct order of operations.

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

$= \underline{\left(-\frac{2}{9}\right) \div \frac{2}{9}} + \left(-\frac{1}{64}\right)$

$= \underline{(-1) + \left(-\frac{1}{64}\right)}$

$= -\frac{65}{64}$

$= -1\frac{1}{64}$

$\left(-\frac{3}{4}\right)^2 \times \underline{\left(\frac{7}{9} - \left(-\frac{1}{5}\right)\right)}$

$= \underline{\left(-\frac{3}{4}\right)^2} \times \frac{44}{45}$

$= \underline{\frac{9}{16} \times \frac{44}{45}}$

$= \frac{11}{20}$

$\left(-\frac{1}{9}\right) \div \left(\underline{\frac{1}{3} + \frac{2}{3}}\right)^2$

$= \left(-\frac{1}{9}\right) \div \underline{1^2}$

$= \underline{\left(-\frac{1}{9}\right) \div 1}$

$= -\frac{1}{9}$

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

$= \frac{4}{9} - \underline{\frac{1}{5} \times \frac{1}{9}}$

$= \underline{\frac{4}{9} - \frac{1}{45}}$

$= \frac{19}{45}$

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

$= \underline{\left(-\frac{5}{9}\right) \times \left(-\frac{1}{2}\right)} + \frac{1}{27}$

$= \underline{\frac{5}{18} + \frac{1}{27}}$

$= \frac{17}{54}$

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

$= \frac{1}{5} + \underline{\frac{3}{4} \div \frac{25}{36}}$

$= \underline{\frac{1}{5} + \frac{27}{25}}$

$= \frac{32}{25}$

$= 1\frac{7}{25}$