Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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Simplify each expression using the correct order of operations.

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

$= \left(\frac{1}{6} \div \frac{9}{25} + \left(-\frac{5}{6}\right) - \frac{8}{9}\right) \times \left(-\frac{1}{2}\right)$

$= \left(\frac{25}{54} + \left(-\frac{5}{6}\right) - \frac{8}{9}\right) \times \left(-\frac{1}{2}\right)$

$= \left(\left(-\frac{10}{27}\right) - \frac{8}{9}\right) \times \left(-\frac{1}{2}\right)$

$= \left(-\frac{34}{27}\right) \times \left(-\frac{1}{2}\right)$

$= \frac{17}{27}$

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

$= \left(-\frac{4}{9}\right) \div \left(\left(-\frac{1}{3}\right) + \frac{4}{81}\right) \times \left(-\frac{5}{8}\right) - \left(-\frac{1}{6}\right)$

$= \left(-\frac{4}{9}\right) \div \left(-\frac{23}{81}\right) \times \left(-\frac{5}{8}\right) - \left(-\frac{1}{6}\right)$

$= \frac{36}{23} \times \left(-\frac{5}{8}\right) - \left(-\frac{1}{6}\right)$

$= \left(-\frac{45}{46}\right) - \left(-\frac{1}{6}\right)$

$= -\frac{56}{69}$