Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{8}{9}\right)-\frac{8}{9}\right)\times\frac{1}{4}$$

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

$$\frac{1}{9}\div\left(-\frac{1}{8}\right)^{2}$$

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

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

$$\left(-\frac{3}{8}\right)+\frac{5}{6}\times\frac{7}{8}$$

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Simplify each expression using the correct order of operations.

$\left(\left(-\frac{8}{9}\right) - \frac{8}{9}\right) \times \frac{1}{4}$

$= \left(-\frac{16}{9}\right) \times \frac{1}{4}$

$= -\frac{4}{9}$

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

$= \frac{1}{8} \div \left(-\frac{1}{9}\right)$

$= -\frac{9}{8}$

$= -1\frac{1}{8}$

$\frac{1}{9} \div \left(-\frac{1}{8}\right)^2$

$= \frac{1}{9} \div \frac{1}{64}$

$= \frac{64}{9}$

$= 7\frac{1}{9}$

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

$= \frac{3}{5} - (-6)$

$= \frac{33}{5}$

$= 6\frac{3}{5}$

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

$= \left(-\frac{5}{9}\right) \times \left(-\frac{1}{10}\right)$

$= \frac{1}{18}$

$\left(-\frac{3}{8}\right) + \frac{5}{6} \times \frac{7}{8}$

$= \left(-\frac{3}{8}\right) + \frac{35}{48}$

$= \frac{17}{48}$

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