Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{2}{3}\right)+\frac{7}{8}\right)\div\left(\left(-\frac{5}{8}\right)^2\times\left(-\frac{2}{5}\right)\right)$$

$$\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{1}{9}\div\left(\frac{2}{3}\right)^3\right)$$

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

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

Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{2}{3}\right)+\frac{7}{8}\right)\div\left(\left(-\frac{5}{8}\right)^2\times\left(-\frac{2}{5}\right)\right)$$

$$=\frac{5}{24}\div\left(\left(-\frac{5}{8}\right)^2\times\left(-\frac{2}{5}\right)\right)$$

$$=\frac{5}{24}\div\left(\frac{25}{64}\times\left(-\frac{2}{5}\right)\right)$$

$$=\frac{5}{24}\div\left(-\frac{5}{32}\right)$$

$$=-\frac{4}{3}$$

$$=-1\frac{1}{3}$$

$$\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{1}{9}\div\left(\frac{2}{3}\right)^3\right)$$

$$=\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{1}{9}\div\frac{8}{27}\right)$$

$$=\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{3}{8}\right)$$

$$=\frac{7}{9}\times\left(-\frac{5}{4}\right)$$

$$=-\frac{35}{36}$$

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

$$=\left(\frac{1}{2}\right)^2\div\left(\left(-\frac{9}{40}\right)+\frac{3}{5}\right)$$

$$=\left(\frac{1}{2}\right)^2\div\frac{3}{8}$$

$$=\frac{1}{4}\div\frac{3}{8}$$

$$=\frac{2}{3}$$

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

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

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

$$=\frac{5}{24}\div\frac{2}{5}$$

$$=\frac{25}{48}$$

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