## Order of Operations with Fractions (H)

Name:

Date:

Simplify each expression using the correct order of operations.

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

$$\left(-\frac{5}{6}\right) \times \left(\left(\frac{1}{2}\right)^2 - \frac{4}{5}\right)$$

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

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

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

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

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Simplify each expression using the correct order of operations.

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

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

$$= \left(-\frac{7}{9}\right) \div \left(-\frac{5}{8}\right)$$

$$=\frac{56}{45}$$

$$=1\frac{11}{45}$$

$$\left(-\frac{5}{6}\right) \times \left(\frac{\left(\frac{1}{2}\right)^2}{2} - \frac{4}{5}\right)$$

$$= \left(-\frac{5}{6}\right) \times \left(\frac{1}{4} - \frac{4}{5}\right)$$

$$= \left(-\frac{5}{6}\right) \times \left(-\frac{11}{20}\right)$$

$$=\frac{11}{24}$$

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

$$= \left(-\frac{8}{9}\right) \div \left(\frac{4}{9} + \left(-\frac{5}{9}\right)\right)$$

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

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

$$=\frac{25}{81} + \left(-\frac{1}{9}\right) \times \left(-\frac{7}{9}\right)$$

$$=\frac{25}{81}+\frac{7}{81}$$

$$=\frac{32}{81}$$

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

$$= \frac{1}{3} \times \left( -\frac{5}{9} \right) + \frac{16}{81}$$

$$= \left(-\frac{5}{27}\right) + \frac{16}{81}$$

$$=\frac{1}{81}$$

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

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

$$=\left(-\frac{2}{5}\right)\times\frac{17}{18}$$

$$=-\frac{17}{45}$$