## Order of Operations with Fractions (I)

Name:

Date:

Simplify each expression using the correct order of operations.

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

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

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

$$\left(\left(\frac{5}{6}\right)^2 - \left(-\frac{7}{9}\right)\right) \div \left(-\frac{5}{6}\right)$$

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

$$\left(-\frac{1}{2}\right)^2 + \left(-\frac{7}{8}\right) \div \frac{3}{4}$$

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Simplify each expression using the correct order of operations.

$$\frac{\left(\frac{1}{2}\right)^2 + \frac{2}{9} \times \left(-\frac{1}{4}\right)}{= \frac{1}{4} + \frac{2}{9} \times \left(-\frac{1}{4}\right)}$$
$$= \frac{\frac{1}{4} + \left(-\frac{1}{18}\right)}{\frac{7}{36}}$$

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

$$= \left(-\frac{1}{9}\right) \div \frac{1}{4} - \frac{1}{3}$$

$$= \left(-\frac{4}{9}\right) - \frac{1}{3}$$

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

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

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

$$= \left(-\frac{1}{3}\right) - \left(-\frac{4}{45}\right)$$

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

$$\left(\left(\frac{5}{6}\right)^2 - \left(-\frac{7}{9}\right)\right) \div \left(-\frac{5}{6}\right)$$

$$= \left(\frac{25}{36} - \left(-\frac{7}{9}\right)\right) \div \left(-\frac{5}{6}\right)$$

$$= \frac{53}{36} \div \left(-\frac{5}{6}\right)$$

$$= -\frac{53}{30}$$

$$= -1\frac{23}{30}$$

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

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

$$= \frac{1 \times \left(-\frac{3}{4}\right)}{4}$$

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

$$\frac{\left(-\frac{1}{2}\right)^2 + \left(-\frac{7}{8}\right) \div \frac{3}{4}}{= \frac{1}{4} + \left(-\frac{7}{8}\right) \div \frac{3}{4}}$$
$$= \frac{1}{4} + \left(-\frac{7}{6}\right)$$
$$= -\frac{11}{12}$$