## Order of Operations with Fractions (J)

Name:

Date:

Simplify each expression using the correct order of operations.

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

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

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

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

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

$$= \frac{22}{15} \times \left(\frac{5}{8} \div \frac{1}{4}\right)^{2}$$

$$= \frac{22}{15} \times \left(\frac{5}{2}\right)^{2}$$

$$= \frac{22}{15} \times \frac{25}{4}$$

$$= \frac{55}{6}$$

$$= 9\frac{1}{6}$$

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

$$= \left(\left(-\frac{7}{4}\right) - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{1}{3}\right)^{3}$$

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

$$= \left(-\frac{3}{2}\right) \times \left(-\frac{1}{27}\right)$$

$$= \frac{1}{18}$$

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

$$= \frac{5}{6} - \left(\frac{1}{2}\right)^2 \times \frac{27}{8}$$

$$= \frac{5}{6} - \frac{1}{4} \times \frac{27}{8}$$

$$= \frac{5}{6} - \frac{27}{32}$$

$$= -\frac{1}{96}$$

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

$$= \left(\frac{2}{3}\right)^2 \div \left(\frac{1}{3} \times \frac{5}{12}\right)$$

$$= \left(\frac{2}{3}\right)^2 \div \frac{5}{36}$$

$$= \frac{4}{9} \div \frac{5}{36}$$

$$= \frac{16}{5}$$

$$= 3\frac{1}{5}$$