Order of Operations with Fractions (J)

Name:	Date:

Simplify each expression using the correct order of operations.

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

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

Order of Operations with Fractions (J)

Name:	Date:
Name:	Date:

Simplify each expression using the correct order of operations.

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

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

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

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

$$= \left(-2\right) \times \left(-\frac{1}{8}\right)$$

$$= \frac{1}{4}$$

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

$$= \left(-\frac{7}{15}\right) \div \left(\frac{1}{4} + \frac{1}{25} \times \left(-\frac{5}{8}\right)\right)$$

$$= \left(-\frac{7}{15}\right) \div \left(\frac{1}{4} + \frac{1}{25} \times \left(-\frac{5}{8}\right)\right)$$

$$= \left(-\frac{7}{15}\right) \div \left(\frac{1}{4} + \left(-\frac{1}{40}\right)\right)$$

$$= \left(-\frac{7}{15}\right) \div \frac{9}{40}$$

$$= -\frac{56}{27}$$

$$= -2\frac{2}{27}$$