Order of Operations with Fractions (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$\left(-\frac{7}{9}\right) \div \left(\frac{1}{2}\right)^3 - \left(-\frac{5}{9}\right)$

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

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

Order of Operations with Fractions (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= \frac{1}{9} + \frac{1}{8} \div \frac{1}{3}$

$= \frac{1}{9} + \frac{3}{8}$

$= \frac{35}{72}$

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

$= \left(-\frac{5}{6}\right) \div \frac{3}{5} + \frac{4}{9}$

$= \left(-\frac{25}{18}\right) + \frac{4}{9}$

$= -\frac{17}{18}$

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

$= \left(\frac{9}{16} - \frac{1}{8}\right) \div \left(-\frac{1}{3}\right)$

$= \frac{7}{16} \div \left(-\frac{1}{3}\right)$

$= -\frac{21}{16}$

$= -1\frac{5}{16}$

$\left(-\frac{7}{9}\right) \div \left(\frac{1}{2}\right)^3 - \left(-\frac{5}{9}\right)$

$= \left(-\frac{7}{9}\right) \div \frac{1}{8} - \left(-\frac{5}{9}\right)$

$= \left(-\frac{56}{9}\right) - \left(-\frac{5}{9}\right)$

$= -\frac{17}{3}$

$= -5\frac{2}{3}$

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

$= \left(-\frac{1}{3}\right) + \left(-\frac{1}{8}\right) \times \frac{7}{9}$

$= \left(-\frac{1}{3}\right) + \left(-\frac{7}{72}\right)$

$= -\frac{31}{72}$

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

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

$= \frac{16}{9} \div \left(-\frac{1}{4}\right)$

$= -\frac{64}{9}$

$= -7\frac{1}{9}$