

Order of Operations with Fractions (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\frac{3}{4}\right)^3 \times \frac{5}{9} - \frac{7}{8}$$

$$\left(-\frac{7}{8}\right) \times \left(\frac{4}{5} - \left(\frac{2}{3}\right)^2\right)$$

$$\left(\frac{2}{3}\right)^2 \times \left(-\frac{7}{8}\right) + \left(-\frac{2}{5}\right)$$

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

$$\left(-\frac{8}{9}\right) + \frac{1}{9} \div \left(-\frac{1}{4}\right)^3$$

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$$\begin{aligned} & \left(\frac{4}{9}\right)^2 \div \left(-\frac{4}{5}\right) - \frac{2}{3} \\ &= \frac{16}{81} \div \left(-\frac{4}{5}\right) - \frac{2}{3} \\ &= \frac{\left(-\frac{20}{81}\right) - \frac{2}{3}}{} \\ &= -\frac{74}{81} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4}\right)^3 \times \frac{5}{9} - \frac{7}{8} \\ &= \frac{27}{64} \times \frac{5}{9} - \frac{7}{8} \\ &= \frac{15}{64} - \frac{7}{8} \\ &= -\frac{41}{64} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{7}{8}\right) \times \left(\frac{4}{5} - \left(\frac{2}{3}\right)^2\right) \\ &= \left(-\frac{7}{8}\right) \times \left(\frac{4}{5} - \frac{4}{9}\right) \\ &= \left(-\frac{7}{8}\right) \times \frac{16}{45} \\ &= -\frac{14}{45} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3}\right)^2 \times \left(-\frac{7}{8}\right) + \left(-\frac{2}{5}\right) \\ &= \frac{4}{9} \times \left(-\frac{7}{8}\right) + \left(-\frac{2}{5}\right) \\ &= \left(-\frac{7}{18}\right) + \left(-\frac{2}{5}\right) \\ &= -\frac{71}{90} \end{aligned}$$

$$\begin{aligned} & \left(\left(-\frac{1}{3}\right) - \frac{5}{6}\right)^2 \div \left(-\frac{5}{9}\right) \\ &= \left(-\frac{7}{6}\right)^2 \div \left(-\frac{5}{9}\right) \\ &= \frac{49}{36} \div \left(-\frac{5}{9}\right) \\ &= -\frac{49}{20} \\ &= -2\frac{9}{20} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{8}{9}\right) + \frac{1}{9} \div \left(-\frac{1}{4}\right)^3 \\ &= \left(-\frac{8}{9}\right) + \frac{1}{9} \div \left(-\frac{1}{64}\right) \\ &= \left(-\frac{8}{9}\right) + \left(-\frac{64}{9}\right) \\ &= -8 \end{aligned}$$