

## Order of Operations with Fractions (B)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\left(-\frac{2}{9}\right) \div \frac{2}{9} + \left(-\frac{1}{4}\right)^3$$

$$\left(-\frac{3}{4}\right)^2 \times \left(\frac{7}{9} - \left(-\frac{1}{5}\right)\right)$$

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

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

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(-\frac{2}{9}\right) \div \frac{2}{9} + \left(\frac{-1}{4}\right)^3 \\ &= \left(\frac{-2}{9}\right) \div \frac{2}{9} + \left(-\frac{1}{64}\right) \\ &= \frac{(-1)}{1} + \left(-\frac{1}{64}\right) \\ &= -\frac{65}{64} \\ &= -1\frac{1}{64} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{3}{4}\right)^2 \times \left(\frac{7}{9} - \left(-\frac{1}{5}\right)\right) \\ &= \left(\frac{-3}{4}\right)^2 \times \frac{44}{45} \\ &= \frac{9}{16} \times \frac{44}{45} \\ &= \frac{11}{20} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{1}{9}\right) \div \left(\frac{1}{3} + \frac{2}{3}\right)^2 \\ &= \left(-\frac{1}{9}\right) \div 1^2 \\ &= \left(\frac{-1}{9}\right) \div 1 \\ &= -\frac{1}{9} \end{aligned}$$

$$\begin{aligned} & \left(\frac{2}{3}\right)^2 - \frac{1}{5} \times \frac{1}{9} \\ &= \frac{4}{9} - \frac{1}{5} \times \frac{1}{9} \\ &= \frac{4}{9} - \frac{1}{45} \\ &= \frac{19}{45} \end{aligned}$$

$$\begin{aligned} & \left(-\frac{5}{9}\right) \times \left(-\frac{1}{2}\right) + \left(\frac{1}{3}\right)^3 \\ &= \left(\frac{-5}{9}\right) \times \left(-\frac{1}{2}\right) + \frac{1}{27} \\ &= \frac{5}{18} + \frac{1}{27} \\ &= \frac{17}{54} \end{aligned}$$

$$\begin{aligned} & \frac{1}{5} + \frac{3}{4} \div \left(\frac{5}{6}\right)^2 \\ &= \frac{1}{5} + \frac{3}{4} \div \frac{25}{36} \\ &= \frac{1}{5} + \frac{27}{25} \\ &= \frac{32}{25} \\ &= 1\frac{7}{25} \end{aligned}$$