

## Order of Operations with Fractions (B)

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

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

Solve each expression using the correct order of operations.

$$\left(\frac{7}{8} - \frac{1}{2} \div \left(\frac{8}{9} + \frac{1}{9}\right)^3\right) \times \frac{3}{8}$$

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

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

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

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$$\begin{aligned} & \left( \frac{7}{8} - \frac{1}{2} \div \left( \frac{8}{9} + \frac{1}{9} \right)^3 \right) \times \frac{3}{8} \\ &= \left( \frac{7}{8} - \frac{1}{2} \div 1^3 \right) \times \frac{3}{8} \\ &= \left( \frac{7}{8} - \frac{1}{2} \div 1 \right) \times \frac{3}{8} \\ &= \left( \frac{7}{8} - \frac{1}{2} \right) \times \frac{3}{8} \\ &= \frac{3}{8} \times \frac{3}{8} \\ &= \frac{9}{64} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{8} + \frac{2}{9} - \frac{1}{9} \right) \div \left( \frac{5}{6} \right)^2 \times \frac{1}{2} \\ &= \left( \frac{43}{72} - \frac{1}{9} \right) \div \left( \frac{5}{6} \right)^2 \times \frac{1}{2} \\ &= \frac{35}{72} \div \left( \frac{5}{6} \right)^2 \times \frac{1}{2} \\ &= \frac{35}{72} \div \frac{25}{36} \times \frac{1}{2} \\ &= \frac{7}{10} \times \frac{1}{2} \\ &= \frac{7}{20} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{8} + \frac{5}{6} - \left( \frac{1}{3} \right)^2 \times \frac{3}{8} \right) \div \frac{1}{2} \\ &= \left( \frac{1}{8} + \frac{5}{6} - \frac{1}{9} \times \frac{3}{8} \right) \div \frac{1}{2} \\ &= \left( \frac{1}{8} + \frac{5}{6} - \frac{1}{24} \right) \div \frac{1}{2} \\ &= \left( \frac{23}{24} - \frac{1}{24} \right) \div \frac{1}{2} \\ &= \frac{11}{12} \div \frac{1}{2} \\ &= \frac{11}{6} \\ &= 1\frac{5}{6} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{5} \div \left( \frac{1}{2} \right)^3 \right) \times \frac{3}{4} - \frac{5}{6} + \frac{2}{3} \\ &= \left( \frac{1}{5} \div \frac{1}{8} \right) \times \frac{3}{4} - \frac{5}{6} + \frac{2}{3} \\ &= \frac{8}{5} \times \frac{3}{4} - \frac{5}{6} + \frac{2}{3} \\ &= \frac{6}{5} - \frac{5}{6} + \frac{2}{3} \\ &= \frac{11}{30} + \frac{2}{3} \\ &= \frac{31}{30} \\ &= 1\frac{1}{30} \end{aligned}$$