

## Order of Operations with Fractions (B)

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

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

Simplify each expression using the correct order of operations.

$$\left(\frac{8}{9} + \frac{5}{9} \times \frac{7}{8}\right) \div \frac{4}{9} - \frac{1}{4}$$

$$\left(\left(\frac{5}{6} + \frac{1}{9}\right) \div \frac{1}{2} - \frac{2}{3}\right) \times \frac{3}{4}$$

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{8}{9} + \frac{5}{9} \times \frac{7}{8} \right) \div \frac{4}{9} - \frac{1}{4} \\ &= \left( \frac{8}{9} + \frac{35}{72} \right) \div \frac{4}{9} - \frac{1}{4} \\ &= \frac{11}{8} \div \frac{4}{9} - \frac{1}{4} \\ &= \frac{99}{32} - \frac{1}{4} \\ &= \frac{91}{32} \\ &= 2\frac{27}{32} \end{aligned}$$

$$\begin{aligned} & \left( \left( \frac{5}{6} + \frac{1}{9} \right) \div \frac{1}{2} - \frac{2}{3} \right) \times \frac{3}{4} \\ &= \left( \frac{17}{18} \div \frac{1}{2} - \frac{2}{3} \right) \times \frac{3}{4} \\ &= \left( \frac{17}{9} - \frac{2}{3} \right) \times \frac{3}{4} \\ &= \frac{11}{9} \times \frac{3}{4} \\ &= \frac{11}{12} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{4} + \frac{7}{9} - \frac{2}{9} \times \frac{1}{2} \right) \div \frac{2}{3} \\ &= \left( \frac{3}{4} + \frac{7}{9} - \frac{1}{9} \right) \div \frac{2}{3} \\ &= \left( \frac{55}{36} - \frac{1}{9} \right) \div \frac{2}{3} \\ &= \frac{17}{12} \div \frac{2}{3} \\ &= \frac{17}{8} \\ &= 2\frac{1}{8} \end{aligned}$$

$$\begin{aligned} & \left( \frac{2}{9} \div \frac{1}{3} + \frac{1}{2} \right) \times \frac{2}{5} - \frac{1}{5} \\ &= \left( \frac{2}{3} + \frac{1}{2} \right) \times \frac{2}{5} - \frac{1}{5} \\ &= \frac{7}{6} \times \frac{2}{5} - \frac{1}{5} \\ &= \frac{7}{15} - \frac{1}{5} \\ &= \frac{4}{15} \end{aligned}$$