

## Order of Operations with Fractions (B)

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

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

Simplify each expression using the correct order of operations.

$$\left(\frac{3}{8} \times \frac{2}{5}\right) \div \left(\frac{4}{5} + \frac{5}{8} - \frac{7}{8}\right) \times \frac{1}{5}$$

$$\left(\frac{1}{3} \div \frac{2}{3}\right) \times \left(\frac{5}{6} + \frac{7}{9} - \frac{2}{9} - \frac{1}{6}\right)$$

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

$$\left(\frac{4}{9} \div \left(\frac{1}{2} - \frac{1}{8}\right)\right) \times \left(\frac{5}{9} + \frac{1}{3} + \frac{1}{9}\right)$$

# Order of Operations with Fractions (B)

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \frac{3}{8} \times \frac{2}{5} \right) \div \left( \frac{4}{5} + \frac{5}{8} - \frac{7}{8} \right) \times \frac{1}{5} \\ &= \frac{3}{20} \div \left( \frac{4}{5} + \frac{5}{8} - \frac{7}{8} \right) \times \frac{1}{5} \\ &= \frac{3}{20} \div \left( \frac{57}{40} - \frac{7}{8} \right) \times \frac{1}{5} \\ &= \frac{3}{20} \div \frac{11}{20} \times \frac{1}{5} \\ &= \frac{3}{11} \times \frac{1}{5} \\ &= \frac{3}{55} \end{aligned}$$

$$\begin{aligned} & \left( \frac{1}{3} \div \frac{2}{3} \right) \times \left( \frac{5}{6} + \frac{7}{9} - \frac{2}{9} - \frac{1}{6} \right) \\ &= \frac{1}{2} \times \left( \frac{5}{6} + \frac{7}{9} - \frac{2}{9} - \frac{1}{6} \right) \\ &= \frac{1}{2} \times \left( \frac{29}{18} - \frac{2}{9} - \frac{1}{6} \right) \\ &= \frac{1}{2} \times \left( \frac{25}{18} - \frac{1}{6} \right) \\ &= \frac{1}{2} \times \frac{11}{9} \\ &= \frac{11}{18} \end{aligned}$$

$$\begin{aligned} & \left( \frac{3}{8} \div \left( \frac{2}{5} - \frac{1}{8} \right) \right) \times \left( \frac{1}{9} + \frac{1}{2} + \frac{1}{6} \right) \\ &= \left( \frac{3}{8} \div \frac{11}{40} \right) \times \left( \frac{1}{9} + \frac{1}{2} + \frac{1}{6} \right) \\ &= \frac{15}{11} \times \left( \frac{1}{9} + \frac{1}{2} + \frac{1}{6} \right) \\ &= \frac{15}{11} \times \left( \frac{11}{18} + \frac{1}{6} \right) \\ &= \frac{15}{11} \times \frac{7}{9} \\ &= \frac{35}{33} \\ &= 1 \frac{2}{33} \end{aligned}$$

$$\begin{aligned} & \left( \frac{4}{9} \div \left( \frac{1}{2} - \frac{1}{8} \right) \right) \times \left( \frac{5}{9} + \frac{1}{3} + \frac{1}{9} \right) \\ &= \left( \frac{4}{9} \div \frac{3}{8} \right) \times \left( \frac{5}{9} + \frac{1}{3} + \frac{1}{9} \right) \\ &= \frac{32}{27} \times \left( \frac{5}{9} + \frac{1}{3} + \frac{1}{9} \right) \\ &= \frac{32}{27} \times \left( \frac{8}{9} + \frac{1}{9} \right) \\ &= \frac{32}{27} \times 1 \\ &= \frac{32}{27} \\ &= 1 \frac{5}{27} \end{aligned}$$