

Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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$$\begin{aligned} & \frac{4}{9} \times \left(\frac{4}{5} \div \frac{3}{4} - \frac{7}{9} + \frac{3}{5} \right) \\ &= \frac{4}{9} \times \left(\frac{16}{15} - \frac{7}{9} + \frac{3}{5} \right) \\ &= \frac{4}{9} \times \left(\frac{13}{45} + \frac{3}{5} \right) \\ &= \frac{4}{9} \times \frac{8}{9} \\ &= \frac{32}{81} \end{aligned}$$

$$\begin{aligned} & \frac{5}{8} \times \left(\frac{4}{5} + \frac{2}{3} \right) \div \frac{1}{8} - \frac{8}{9} \\ &= \frac{5}{8} \times \frac{22}{15} \div \frac{1}{8} - \frac{8}{9} \\ &= \frac{11}{12} \div \frac{1}{8} - \frac{8}{9} \\ &= \frac{22}{3} - \frac{8}{9} \\ &= \frac{58}{9} \\ &= 6\frac{4}{9} \end{aligned}$$

$$\begin{aligned} & \left(\frac{1}{2} \times \frac{3}{8} - \frac{1}{8} \right) \div \frac{3}{4} + \frac{5}{8} \\ &= \left(\frac{3}{16} - \frac{1}{8} \right) \div \frac{3}{4} + \frac{5}{8} \\ &= \frac{1}{16} \div \frac{3}{4} + \frac{5}{8} \\ &= \frac{1}{12} + \frac{5}{8} \\ &= \frac{17}{24} \end{aligned}$$

$$\begin{aligned} & \left(\frac{3}{4} \times \left(\frac{2}{3} - \frac{2}{5} \right) \right) \div \frac{1}{8} + \frac{7}{8} \\ &= \left(\frac{3}{4} \times \frac{4}{15} \right) \div \frac{1}{8} + \frac{7}{8} \\ &= \frac{1}{5} \div \frac{1}{8} + \frac{7}{8} \\ &= \frac{8}{5} + \frac{7}{8} \\ &= \frac{99}{40} \\ &= 2\frac{19}{40} \end{aligned}$$