Order of Operations with Fractions (F)

Name:

Date:

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

$$\left(\frac{7}{8} \times \frac{1}{9}\right) \div \left(\frac{1}{6} + \frac{5}{8}\right) \qquad \qquad \frac{3}{5} \div \left(\frac{8}{9} - \frac{2}{9} + \frac{1}{6}\right)$$

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

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

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

$$= \left(\frac{91}{72} - \frac{1}{8}\right) \div \frac{1}{9}$$

$$= \frac{41}{36} \div \frac{1}{9}$$

$$= \frac{41}{4}$$

$$= 10\frac{1}{4}$$

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

$$= \left(\frac{\frac{1}{12} + \frac{5}{8}\right) \times \frac{1}{4}$$

$$= \frac{\frac{17}{24} \times \frac{1}{4}}{\frac{1}{96}}$$

$$= \frac{\frac{17}{96}}{\frac{17}{96}}$$

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

$$= 1 \div \left(\frac{3}{5} \times \frac{8}{9}\right)$$

$$= \frac{1 \div \frac{8}{15}}{8}$$

$$= \frac{15}{8}$$

$$= \frac{17}{8}$$

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

$$= \frac{2}{5} \times \left(3 + \frac{5}{6}\right)$$

$$= \frac{2}{5} \times \frac{23}{6}$$

$$= \frac{23}{15}$$

$$= 1\frac{8}{15}$$

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

$$= \frac{\frac{19}{20}}{\frac{1}{20}} \times \frac{1}{2} \times \frac{2}{5}$$

$$= \frac{\frac{19}{10}}{\frac{1}{25}} \times \frac{2}{5}$$

$$= \frac{\frac{19}{25}}{\frac{1}{25}}$$

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

$$= \frac{3}{4} \div \left(\frac{7}{30} + \frac{2}{3}\right)$$

$$= \frac{3}{4} \div \frac{9}{10}$$

$$= \frac{5}{6}$$

$$\left(\frac{\frac{7}{8} \times \frac{1}{9}}{\frac{1}{9}}\right) \div \left(\frac{1}{6} + \frac{5}{8}\right)$$

$$= \frac{7}{72} \div \left(\frac{1}{6} + \frac{5}{8}\right)$$

$$= \frac{7}{72} \div \frac{19}{24}$$

$$= \frac{7}{57}$$

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

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

$$= \frac{3}{5} \div \frac{5}{6}$$

$$= \frac{18}{25}$$

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

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

$$= \frac{19}{24} \times \frac{4}{5}$$

$$= \frac{19}{30}$$