

Order of Operations with Fractions (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(\frac{3}{4} - \frac{3}{8}\right) \times \frac{7}{9}\right) \div \left(\frac{5}{6} + \frac{1}{3} + \frac{1}{2}\right)$$

$$\left(\left(\frac{2}{9} + \frac{4}{9}\right) \div \frac{1}{6}\right) \times \frac{7}{8} - \frac{1}{5} \times \frac{5}{6}$$

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

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

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$$\left(\left(\frac{3}{4} - \frac{3}{8} \right) \times \frac{7}{9} \right) \div \left(\frac{5}{6} + \frac{1}{3} + \frac{1}{2} \right)$$

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

$$= \frac{7}{24} \div \left(\frac{5}{6} + \frac{1}{3} + \frac{1}{2} \right)$$

$$= \frac{7}{24} \div \left(\frac{7}{6} + \frac{1}{2} \right)$$

$$= \frac{7}{24} \div \frac{5}{3}$$

$$= \frac{7}{40}$$

$$\left(\left(\frac{2}{9} + \frac{4}{9} \right) \div \frac{1}{6} \right) \times \frac{7}{8} - \frac{1}{5} \times \frac{5}{6}$$

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

$$= 4 \times \frac{7}{8} - \frac{1}{5} \times \frac{5}{6}$$

$$= \frac{7}{2} - \frac{1}{5} \times \frac{5}{6}$$

$$= \frac{7}{2} - \frac{1}{6}$$

$$= \frac{10}{3}$$

$$= 3\frac{1}{3}$$

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

$$= \left(\frac{61}{45} - \frac{2}{5} \right) \div \left(\left(\frac{1}{2} \times \frac{4}{9} \right) \div \frac{1}{9} \right)$$

$$= \frac{43}{45} \div \left(\left(\frac{1}{2} \times \frac{4}{9} \right) \div \frac{1}{9} \right)$$

$$= \frac{43}{45} \div \left(\frac{2}{9} \div \frac{1}{9} \right)$$

$$= \frac{43}{45} \div 2$$

$$= \frac{43}{90}$$

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

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

$$= \frac{8}{9} \div \frac{5}{8} - \frac{5}{9} \times 1$$

$$= \frac{64}{45} - \frac{5}{9} \times 1$$

$$= \frac{64}{45} - \frac{5}{9}$$

$$= \frac{13}{15}$$