Order of Operations with Fractions (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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Simplify each expression using the correct order of operations.

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

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

$$= \frac{3}{20} \div \left(\frac{2}{9} + \frac{1}{5}\right)$$

$$= \frac{3}{20} \div \frac{19}{45}$$

$$= \frac{27}{76}$$

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

$$= \frac{1}{2} \times \left(\left(\frac{8}{9}\right)^2 \div \frac{7}{9}\right)$$

$$= \frac{1}{2} \times \left(\frac{64}{81} \div \frac{7}{9}\right)$$

$$= \frac{1}{2} \times \frac{64}{63}$$

$$= \frac{32}{63}$$

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

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

$$= \frac{2}{5} \div \left(\frac{13}{36} - \frac{1}{4}\right)$$

$$= \frac{2}{5} \div \frac{1}{9}$$

$$= \frac{18}{5}$$

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

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

$$= \left(\left(\frac{5}{9}\right)^2 \div \frac{4}{9}\right) \times \frac{3}{4}$$

$$= \left(\frac{25}{81} \div \frac{4}{9}\right) \times \frac{3}{4}$$

$$= \frac{25}{36} \times \frac{3}{4}$$

$$= \frac{25}{48}$$