Order of Operations with Fractions (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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Simplify each expression using the correct order of operations.

$\left(\dfrac{5}{6} - \dfrac{3}{5}\right) \times \left(\left(\dfrac{5}{8}\right)^{2} \div \dfrac{1}{6}\right)$

$= \dfrac{7}{30} \times \left(\left(\dfrac{5}{8}\right)^{2} \div \dfrac{1}{6}\right)$

$= \dfrac{7}{30} \times \left(\dfrac{25}{64} \div \dfrac{1}{6}\right)$

$= \dfrac{7}{30} \times \dfrac{75}{32}$

$= \dfrac{35}{64}$

$\left(\left(\dfrac{5}{6}\right)^{2} + \dfrac{5}{9} - \dfrac{1}{9}\right) \times \dfrac{4}{5}$

$= \left(\dfrac{25}{36} + \dfrac{5}{9} - \dfrac{1}{9}\right) \times \dfrac{4}{5}$

$= \left(\dfrac{5}{4} - \dfrac{1}{9}\right) \times \dfrac{4}{5}$

$= \dfrac{41}{36} \times \dfrac{4}{5}$

$= \dfrac{41}{45}$

$\dfrac{3}{5} \times \left(\left(\dfrac{5}{6}\right)^{2} + \dfrac{5}{9} - \dfrac{1}{2}\right)$

$= \dfrac{3}{5} \times \left(\dfrac{25}{36} + \dfrac{5}{9} - \dfrac{1}{2}\right)$

$= \dfrac{3}{5} \times \left(\dfrac{5}{4} - \dfrac{1}{2}\right)$

$= \dfrac{3}{5} \times \dfrac{3}{4}$

$= \dfrac{9}{20}$

$\left(\left(\dfrac{1}{6}\right)^{2} \div \dfrac{1}{8} + \dfrac{2}{5}\right) \times \dfrac{1}{2}$

$= \left(\dfrac{1}{36} \div \dfrac{1}{8} + \dfrac{2}{5}\right) \times \dfrac{1}{2}$

$= \left(\dfrac{2}{9} + \dfrac{2}{5}\right) \times \dfrac{1}{2}$

$= \dfrac{28}{45} \times \dfrac{1}{2}$

$= \dfrac{14}{45}$

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