Order of Operations with Fractions (G)

Name: _____   Date: _____

Simplify each expression using the correct order of operations.

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

$\left(\dfrac{7}{9} - \dfrac{1}{5}\right) \times \left(\dfrac{8}{9} + \dfrac{1}{9}\right)$

$\left(\dfrac{8}{9} + \dfrac{3}{5} - \dfrac{2}{3}\right) \times \dfrac{5}{9}$

$\left(\dfrac{4}{9} - \dfrac{1}{3}\right) \div \dfrac{1}{8} + \dfrac{3}{8}$

$\dfrac{3}{5} \div \left(\dfrac{4}{5} - \dfrac{5}{9} + \dfrac{2}{9}\right)$

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

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

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

$\left(\dfrac{8}{9} - \dfrac{4}{9} \times \dfrac{5}{8}\right) \div \dfrac{5}{6}$

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Simplify each expression using the correct order of operations.

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

$= \left(\dfrac{5}{6} + \dfrac{3}{8}\right) \times \dfrac{8}{9}$

$= \dfrac{29}{24} \times \dfrac{8}{9}$

$= \dfrac{29}{27}$

$= 1\dfrac{2}{27}$

$\left(\dfrac{7}{9} - \dfrac{1}{5}\right) \times \left(\dfrac{8}{9} + \dfrac{1}{9}\right)$

$= \dfrac{26}{45} \times \left(\dfrac{8}{9} + \dfrac{1}{9}\right)$

$= \dfrac{26}{45} \times 1$

$= \dfrac{26}{45}$

$\left(\dfrac{8}{9} + \dfrac{3}{5} - \dfrac{2}{3}\right) \times \dfrac{5}{9}$

$= \left(\dfrac{67}{45} - \dfrac{2}{3}\right) \times \dfrac{5}{9}$

$= \dfrac{37}{45} \times \dfrac{5}{9}$

$= \dfrac{37}{81}$

$\left(\dfrac{4}{9} - \dfrac{1}{3}\right) \div \dfrac{1}{8} + \dfrac{3}{8}$

$= \dfrac{1}{9} \div \dfrac{1}{8} + \dfrac{3}{8}$

$= \dfrac{8}{9} + \dfrac{3}{8}$

$= \dfrac{91}{72}$

$= 1\dfrac{19}{72}$

$\dfrac{3}{5} \div \left(\dfrac{4}{5} - \dfrac{5}{9} + \dfrac{2}{9}\right)$

$= \dfrac{3}{5} \div \left(\dfrac{11}{45} + \dfrac{2}{9}\right)$

$= \dfrac{3}{5} \div \dfrac{7}{15}$

$= \dfrac{9}{7}$

$= 1\dfrac{2}{7}$

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

$= \left(\dfrac{5}{9} + \dfrac{1}{2}\right) \div \dfrac{5}{8}$

$= \dfrac{19}{18} \div \dfrac{5}{8}$

$= \dfrac{76}{45}$

$= 1\dfrac{31}{45}$

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

$= \dfrac{4}{9} \times \left(\dfrac{31}{45} + \dfrac{1}{5}\right)$

$= \dfrac{4}{9} \times \dfrac{8}{9}$

$= \dfrac{32}{81}$

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

$= \left(\dfrac{7}{8} - \dfrac{1}{8}\right) \times \dfrac{5}{9}$

$= \dfrac{3}{4} \times \dfrac{5}{9}$

$= \dfrac{5}{12}$

$\left(\dfrac{8}{9} - \dfrac{4}{9} \times \dfrac{5}{8}\right) \div \dfrac{5}{6}$

$= \left(\dfrac{8}{9} - \dfrac{5}{18}\right) \div \dfrac{5}{6}$

$= \dfrac{11}{18} \div \dfrac{5}{6}$

$= \dfrac{11}{15}$

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