Order of Operations with Fractions (D)

Name: _____   Date: _____

Simplify each expression using the correct order of operations.

$\left(\dfrac{3}{4} + \dfrac{2}{3}\right) \times \dfrac{5}{8}$

$\left(\dfrac{1}{4}\right)^2 \times \dfrac{1}{5}$

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

$\dfrac{2}{3} + \dfrac{1}{4} \div \dfrac{1}{2}$

$\dfrac{1}{2} \times \left(\dfrac{1}{5}\right)^2$

$\dfrac{5}{6} \times \left(\dfrac{1}{6} + \dfrac{3}{4}\right)$

$\dfrac{3}{4} \times \left(\dfrac{8}{9}\right)^2$

$\left(\dfrac{2}{5} + \dfrac{1}{4}\right) \div \dfrac{1}{2}$

$\dfrac{2}{3} \times \dfrac{7}{9} + \dfrac{5}{6}$

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$\left(\dfrac{3}{4} + \dfrac{2}{3}\right) \times \dfrac{5}{8}$

$= \dfrac{17}{12} \times \dfrac{5}{8}$

$= \dfrac{85}{96}$

$\left(\dfrac{1}{4}\right)^2 \times \dfrac{1}{5}$

$= \dfrac{1}{16} \times \dfrac{1}{5}$

$= \dfrac{1}{80}$

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

$= \dfrac{1}{8} + \dfrac{25}{64}$

$= \dfrac{33}{64}$

$\dfrac{2}{3} + \dfrac{1}{4} \div \dfrac{1}{2}$

$= \dfrac{2}{3} + \dfrac{1}{2}$

$= \dfrac{7}{6}$

$= 1\dfrac{1}{6}$

$\dfrac{1}{2} \times \left(\dfrac{1}{5}\right)^2$

$= \dfrac{1}{2} \times \dfrac{1}{25}$

$= \dfrac{1}{50}$

$\dfrac{5}{6} \times \left(\dfrac{1}{6} + \dfrac{3}{4}\right)$

$= \dfrac{5}{6} \times \dfrac{11}{12}$

$= \dfrac{55}{72}$

$\dfrac{3}{4} \times \left(\dfrac{8}{9}\right)^2$

$= \dfrac{3}{4} \times \dfrac{64}{81}$

$= \dfrac{16}{27}$

$\left(\dfrac{2}{5} + \dfrac{1}{4}\right) \div \dfrac{1}{2}$

$= \dfrac{13}{20} \div \dfrac{1}{2}$

$= \dfrac{13}{10}$

$= 1\dfrac{3}{10}$

$\dfrac{2}{3} \times \dfrac{7}{9} + \dfrac{5}{6}$

$= \dfrac{14}{27} + \dfrac{5}{6}$

$= \dfrac{73}{54}$

$= 1\dfrac{19}{54}$