Order of Operations with Fractions (A)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\frac{5}{6} + \frac{3}{4} \div \left(\frac{3}{5}\right)^2$

$\left(\frac{5}{6}\right)^2 \div \left(\frac{5}{8} - \frac{4}{9}\right)$

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

$\frac{7}{8} \div \left(\frac{2}{3} - \left(\frac{1}{3}\right)^2\right)$

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

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

$\frac{3}{4} - \frac{1}{6} \div \left(\frac{4}{5}\right)^2$

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

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

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$\frac{5}{6} + \frac{3}{4} \div \left(\frac{3}{5}\right)^2$

$= \frac{5}{6} + \frac{3}{4} \div \frac{9}{25}$

$= \frac{5}{6} + \frac{25}{12}$

$= \frac{35}{12}$

$= 2\frac{11}{12}$

$\left(\frac{5}{6}\right)^2 \div \left(\frac{5}{8} - \frac{4}{9}\right)$

$= \left(\frac{5}{6}\right)^2 \div \frac{13}{72}$

$= \frac{25}{36} \div \frac{13}{72}$

$= \frac{50}{13}$

$= 3\frac{11}{13}$

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

$= \frac{1}{9} \times \frac{5}{8} + \frac{1}{8}$

$= \frac{5}{72} + \frac{1}{8}$

$= \frac{7}{36}$

$\frac{7}{8} \div \left(\frac{2}{3} - \left(\frac{1}{3}\right)^2\right)$

$= \frac{7}{8} \div \left(\frac{2}{3} - \frac{1}{9}\right)$

$= \frac{7}{8} \div \frac{5}{9}$

$= \frac{63}{40}$

$= 1\frac{23}{40}$

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

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

$= 1 \times \frac{1}{81}$

$= \frac{1}{81}$

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

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

$= \frac{13}{18} \times \frac{1}{2}$

$= \frac{13}{36}$

$\frac{3}{4} - \frac{1}{6} \div \left(\frac{4}{5}\right)^2$

$= \frac{3}{4} - \frac{1}{6} \div \frac{16}{25}$

$= \frac{3}{4} - \frac{25}{96}$

$= \frac{47}{96}$

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

$= \frac{1}{81} \div \frac{4}{9} + \frac{1}{6}$

$= \frac{1}{36} + \frac{1}{6}$

$= \frac{7}{36}$

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

$= \frac{9}{16} \times \frac{3}{5} + \frac{1}{2}$

$= \frac{27}{80} + \frac{1}{2}$

$= \frac{67}{80}$