Order of Operations with Fractions (A)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left(\frac{1}{8} \times \frac{2}{3}\right) \div \frac{1}{3} + \left(\frac{4}{5}\right)^2$

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

$\left(\frac{1}{4} + \frac{1}{2}\right)^3 \div \left(\frac{5}{6} \times \frac{3}{8}\right)$

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

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Solve each expression using the correct order of operations.

$\left(\frac{1}{8} \times \frac{2}{3}\right) \div \frac{1}{3} + \left(\frac{4}{5}\right)^2$

$= \frac{1}{12} \div \frac{1}{3} + \left(\frac{4}{5}\right)^2$

$= \frac{1}{12} \div \frac{1}{3} + \frac{16}{25}$

$= \frac{1}{4} + \frac{16}{25}$

$= \frac{89}{100}$

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

$= \left(\frac{2}{3}\right)^2 \div \frac{13}{36} \times \frac{1}{5}$

$= \frac{4}{9} \div \frac{13}{36} \times \frac{1}{5}$

$= \frac{16}{13} \times \frac{1}{5}$

$= \frac{16}{65}$

$\left(\frac{1}{4} + \frac{1}{2}\right)^3 \div \left(\frac{5}{6} \times \frac{3}{8}\right)$

$= \left(\frac{3}{4}\right)^3 \div \left(\frac{5}{6} \times \frac{3}{8}\right)$

$= \left(\frac{3}{4}\right)^3 \div \frac{5}{16}$

$= \frac{27}{64} \div \frac{5}{16}$

$= \frac{27}{20}$

$= 1\frac{7}{20}$

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

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

$= \left(\frac{4}{9}\right)^2 \div \frac{1}{18}$

$= \frac{16}{81} \div \frac{1}{18}$

$= \frac{32}{9}$

$= 3\frac{5}{9}$