Order of Operations with Fractions (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

$\frac{1}{8}\times\left(\frac{5}{6}+\frac{1}{4}-\frac{1}{6}\right)$

$\left(\frac{8}{9}+\frac{2}{3}\right)\div\frac{3}{4}-\frac{2}{9}$

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

$\left(\frac{5}{9}+\frac{1}{9}-\frac{1}{5}\right)\div\frac{1}{4}$

Order of Operations with Fractions (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$=1\times\left(\frac{1}{2}\div\frac{1}{3}\right)$

$=1\times\frac{3}{2}$

$=\frac{3}{2}$

$=1\frac{1}{2}$

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

$=\left(\frac{23}{24}-\frac{1}{4}\right)\times\frac{2}{5}$

$=\frac{17}{24}\times\frac{2}{5}$

$=\frac{17}{60}$

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

$=\frac{2}{9}\div\left(\frac{13}{24}+\frac{7}{9}\right)$

$=\frac{2}{9}\div\frac{95}{72}$

$=\frac{16}{95}$

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

$=\left(\frac{1}{4}+\frac{5}{8}\right)\div\frac{5}{6}$

$=\frac{7}{8}\div\frac{5}{6}$

$=\frac{21}{20}$

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

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

$=\frac{1}{5}\div\frac{3}{5}+\frac{4}{9}$

$=\frac{1}{3}+\frac{4}{9}$

$=\frac{7}{9}$

$\frac{1}{8}\times\left(\frac{5}{6}+\frac{1}{4}-\frac{1}{6}\right)$

$=\frac{1}{8}\times\left(\frac{13}{12}-\frac{1}{6}\right)$

$=\frac{1}{8}\times\frac{11}{12}$

$=\frac{11}{96}$

$\left(\frac{8}{9}+\frac{2}{3}\right)\div\frac{3}{4}-\frac{2}{9}$

$=\frac{14}{9}\div\frac{3}{4}-\frac{2}{9}$

$=\frac{56}{27}-\frac{2}{9}$

$=\frac{50}{27}$

$=1\frac{23}{27}$

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

$=\frac{4}{5}\times\left(\frac{16}{15}-\frac{1}{2}\right)$

$=\frac{4}{5}\times\frac{17}{30}$

$=\frac{34}{75}$

$\left(\frac{5}{9}+\frac{1}{9}-\frac{1}{5}\right)\div\frac{1}{4}$

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

$=\frac{7}{15}\div\frac{1}{4}$

$=\frac{28}{15}$

$=1\frac{13}{15}$