Order of Operations with Fractions (A)

Name: _____

Simplify each expression using the correct order of operations.

$\left(\dfrac{3}{5} - \dfrac{2}{5} + \dfrac{1}{4}\right) \div \dfrac{1}{6}$
$\left(\dfrac{1}{4} + \dfrac{3}{4} - \dfrac{3}{8}\right) \div \dfrac{1}{9}$
$\left(\dfrac{3}{8} \times \dfrac{1}{4} + \dfrac{7}{8}\right) \div \dfrac{1}{3}$

$\left(\dfrac{8}{9} - \dfrac{2}{3} + \dfrac{5}{8}\right) \div \dfrac{1}{3}$
$\left(\dfrac{1}{4} + \dfrac{1}{8} - \dfrac{1}{5}\right) \times \dfrac{4}{9}$
$\dfrac{1}{8} \div \left(\dfrac{3}{5} + \dfrac{5}{6} - \dfrac{1}{3}\right)$

$\left(\dfrac{7}{9} + \dfrac{5}{6} - \dfrac{2}{3}\right) \times \dfrac{1}{3}$
$\left(\dfrac{2}{9} + \dfrac{1}{9}\right) \times \left(\dfrac{1}{3} - \dfrac{1}{4}\right)$
$\left(\dfrac{1}{6} \times \left(\dfrac{4}{5} - \dfrac{1}{3}\right)\right) \div \dfrac{1}{5}$

Order of Operations with Fractions (A)

Name: _____

Simplify each expression using the correct order of operations.

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

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

$$= \frac{9}{20} \div \frac{1}{6}$$

$$= \frac{27}{10}$$

$$= 2\frac{7}{10}$$

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

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

$$= \frac{5}{8} \div \frac{1}{9}$$

$$= \frac{45}{8}$$

$$= 5\frac{5}{8}$$

$$\left(\frac{3}{8} \times \frac{1}{4} + \frac{7}{8}\right) \div \frac{1}{3}$$

$$= \left(\frac{3}{32} + \frac{7}{8}\right) \div \frac{1}{3}$$

$$= \frac{31}{32} \div \frac{1}{3}$$

$$= \frac{93}{32}$$

$$= 2\frac{29}{32}$$

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

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

$$= \frac{61}{72} \div \frac{1}{3}$$

$$= \frac{61}{24}$$

$$= 2\frac{13}{24}$$

$$\left(\frac{1}{4} + \frac{1}{8} - \frac{1}{5}\right) \times \frac{4}{9}$$

$$= \left(\frac{3}{8} - \frac{1}{5}\right) \times \frac{4}{9}$$

$$= \frac{7}{40} \times \frac{4}{9}$$

$$= \frac{7}{90}$$

$$\frac{1}{8} \div \left(\frac{3}{5} + \frac{5}{6} - \frac{1}{3}\right)$$

$$= \frac{1}{8} \div \left(\frac{43}{30} - \frac{1}{3}\right)$$

$$= \frac{1}{8} \div \frac{11}{10}$$

$$= \frac{5}{44}$$

$$\left(\frac{7}{9} + \frac{5}{6} - \frac{2}{3}\right) \times \frac{1}{3}$$

$$= \left(\frac{29}{18} - \frac{2}{3}\right) \times \frac{1}{3}$$

$$= \frac{17}{18} \times \frac{1}{3}$$

$$= \frac{17}{54}$$

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

$$= \frac{1}{3} \times \left(\frac{1}{3} - \frac{1}{4}\right)$$

$$= \frac{1}{3} \times \frac{1}{12}$$

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

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

$$= \left(\frac{1}{6} \times \frac{7}{15}\right) \div \frac{1}{5}$$

$$= \frac{7}{90} \div \frac{1}{5}$$

$$= \frac{7}{18}$$