MPM1DI U1D4

Adding and Subtracting Rational Numbers

From last day's Homework:

$\left(-1\frac{3}{4}\right) \div \left(-1\frac{1}{5}\right) \div \left(-\frac{5}{9}\right)$

Lowest Common Denominator

Example 1: Determine the LCD for each of the following:

a) $\frac{1}{3}, \frac{1}{4}$ b) $\frac{2}{5}, \frac{3}{8}$ c) $\frac{1}{10}, \frac{1}{12}$ d) $\frac{1}{2}, \frac{1}{4}, \frac{1}{7}$

Adding and Subtracting Fractions

** Remember fractions can only be added or subtracted if they have a _____ _____ .

When Adding or Subtracting Fractions:

1. _____
2. _____
3. _____

   _____
4. _____

   _____
5. _____

Examples: Evaluate each expression. Write your answer in lowest terms:

a) $\frac{2}{3} + \frac{1}{4}$ b) $\frac{3}{8} + \frac{3}{4}$ c) $2\frac{1}{7} + 1\frac{1}{2}$

d) $\frac{5}{6} - \frac{3}{8}$

e) $3\frac{2}{5} - 1\frac{3}{4}$

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

Don't forget about… _____

g) $\frac{2}{3} \times \frac{5}{4} + \frac{3}{2}$

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

i) $2 - \frac{7}{8} \div \frac{3}{4}$

j) $\frac{3}{7} + \frac{-2}{3} \times \frac{3}{5} \div \frac{4}{5}$