Fractions

Homework-3 **Name:** _____

Concepts covered in class: Comparing fractions with the same denominator but different numerator, comparing unit fractions, how to add and subtract fractions with the same denominator and the reasoning behind these algorithms.

1. Compare each pair of numbers by placing $<$ or $=$ or $>$ sign between them.

(A) $\frac{7}{12}$ $\frac{6}{12}$

(B) $\frac{1}{6}$ $\frac{1}{10}$

(C) $\frac{1}{100}$ $\frac{1}{10}$

(D) $\frac{99}{100}$ 1

(E) $\frac{11}{10}$ 1

(F) $\frac{6}{6}$ $\frac{4}{4}$

(G) $\frac{13,999}{5}$ $\frac{14,563}{5}$

2. Fill in the blanks with whole numbers.

$\frac{7}{3}$ is _____ copies of the unit fraction $\frac{1}{3}$.

$\frac{5}{3}$ is _____ copies of the unit fraction $\frac{1}{3}$.

From the above, we can see that $\frac{7}{3} + \frac{5}{3}$ is the total of _____ copies of the unit fraction $\frac{1}{3}$.

Hence $\frac{7}{3} + \frac{5}{3} = \frac{\qquad\qquad}{3}$

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3. Add the fractions. Remember to use equal signs as discussed in class.

(A) $\frac{1}{4} + \frac{17}{4}$

(B) $\frac{5}{10} + \frac{113}{10}$

(C) $\frac{11}{5} + \frac{2}{5} + \frac{3}{5}$

(D) $\frac{5}{6} + \frac{39}{6}$

(E) $\frac{1}{2} + \frac{5}{2} + \frac{3}{2}$

(F) $\frac{51}{100} + \frac{7}{100}$

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4. Subtract the fractions. Remember to use equal signs as discussed in class.

(A) $\frac{7}{8} - \frac{3}{8}$

(B) $\frac{507}{100} - \frac{129}{100}$

(C) $\frac{2}{3} - \frac{1}{3}$

(D) $\frac{912}{10} - \frac{172}{10}$