Fractions

Homework-6 **Name:** _____

Concepts covered in class: Proper and Improper fractions, Conversions between improper fractions and mixed numbers, addition of mixed numbers

1. Each improper fraction below is in fact a whole number. Fill in the blank with a whole number.

$\frac{27}{3} =$ $\frac{40}{8} =$

2. a) Express the following improper fraction as a mixed number.

$$\frac{43}{10}$$

b) Between which two **consecutive whole numbers** does the given improper fraction lie? Fill in the blanks with the correct whole numbers. Hint: use your work from part a) above.

$$< \frac{43}{10} <$$

3. Express each mixed number as an improper fraction.

$7\frac{3}{4} =$ $10\frac{4}{11} =$ $100\frac{3}{5} =$

4. Express each improper fraction as a mixed number.

$\frac{47}{5} =$ $\frac{17}{2} =$ $\frac{101}{100} =$

5. Add the mixed numbers. Use equality signs in your work as discussed in class.

(A) $1\frac{1}{9} + 2\frac{4}{9}$

(B) $16\frac{2}{5} + 17\frac{4}{5} + 1\frac{1}{5}$

(C) $6\frac{3}{10} + 13\frac{7}{10}$

6. We have two cans of water. The first can contains $3\frac{1}{8}$ gallons of water. The second can contains $9\frac{3}{8}$ gallons of water. What is the total amount of water altogether in the two cans?