

Problem of the Day

Cut string into lengths of $1\frac{3}{8}$ inches, $2\frac{1}{4}$ inches, $3\frac{7}{8}$ inches, and $5\frac{3}{4}$ inches.

- a. Estimate the total length of the first two pieces and the second two pieces.
- b. Find the actual length by adding.

12/14/09

Objective:



TSWBAT add mixed numbers and mixed numbers with renaming.



Adding Mixed Numbers Mentally

Steps for adding mixed numbers:

$$10\frac{1}{5} + 6\frac{2}{5}$$

1. add the whole numbers.

$$10 + 6 = 16$$

2. add the fractions.

$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

3. combine the two parts.

$$16 + \frac{3}{5} = 16\frac{3}{5}$$

Adding Mixed Numbers with Renaming

Steps for adding mixed numbers with renaming:

$$15\frac{5}{6} + 3\frac{1}{2}$$

1. find the LCD.

$$\frac{5}{6} \quad \frac{1}{2} \overset{\times 3}{=} \frac{3}{6}$$

2. add the whole numbers

$$15 + 3 = 18$$

3. add the fractions

$$\frac{5}{6} + \frac{3}{6} = \frac{8}{6}$$

4. rename the improper fraction with a mixed number

$$\frac{8}{6} = 1\frac{2}{6} \quad \begin{array}{r} 1 \\ 6 \overline{) 8} \\ \underline{-6} \end{array}$$

5. add the whole numbers again

$$18 + 1\frac{2}{6} = 19\frac{2}{6}$$

6. simplify

$$19\frac{2}{6} = 19\frac{1}{3}$$

practice:

Homework: Reteach 4-4

