Name: _____ Date: _____

Writing Equations and Inequalities Homework

Lucy has been assigned the following linear equations and inequality word problems. Help her solve each problem below by using a five step plan.

- Drawing a Sketch (if necessary)
- Defining a Variable
- Setting up an equation or inequality
- Solve the equation or inequality
- Make sure you answer the question

1. You are trying to save $30 a week to buy a new CD player. During the last 4 weeks you have saved $45, $35, $10, and $52. How much do you need to save this week to average $30 for the 5 weeks?

2. On an algebra test, the highest grade was 14 points higher than the lowest grade. The sum of the two grades was 172. Find the lowest grade.

3. When 8 is added to four times a number, the result is 80. Find the number.

4. The sum of 3 consecutive integers is 96. Find the 3 numbers.

5. The width of a rectangle is 8 inches more than the length. The perimeter is 60. Find the length and width of the rectangle.

6. The sum of six times a number and eight is 108. Find the number.

7. Twelve subtracted from three times a number is fifteen. Find the number.

8. Twice a number added to nine is thirty-three. Find the number.