### Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Linear Equations and Inequalities**

1. The sum of 38 and twice a number is 124. Find the number.
2. Find three consecutive integers whose sum is 171.
3. Find four consecutive even integers whose sum is 244.
4. A rectangle is 12m longer than it is wide. Its perimeter is 68m. Find its length and width.

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 width of a rectangle is 8 inches more than the length and the perimeter is at least 60 inches. What are the smallest possible dimensions for the rectangle?