- Make sure you determine whether the problem should be set up as an **INEQUALITY** or an **EQUATION**.
- Once you SOLVE, you must INTERPRET your answer and write the APPROPRIATE answer in statement form.

Please show all your work on a separate sheet of paper.

- 1. If eight times a number is decreased by 23, the result is 129. Find the number.
- 2. One number is 8 more than another. If the smaller number is multiplied by 3, the result is 18 more than the larger number. Find the numbers.
- 3. Three more than five times a number is less than 18. Find the largest integer for which this is true.
- 4. Two less than seven times a number is less than 12. Find the largest integer for which this is true.
- 5. If 14 is added to a certain number and the sum is doubled, the result is the same as decreasing eight times the number by 14. Find the number.
- 6. The sum of three numbers is 12. If the second is 1 less than the first and the third is 5 less than twice the second, find the numbers.
- 7. Find three consecutive integers such that the sum of the first two exceeds the third by 24.
- 8. Let x represent the larger of two integers whose sum is less than 40. The smaller integer is one-fourth of the larger. Find the largest possible value of x.
- 9. The sum of three consecutive odd integers is less than 30. If x represents the first of these integers, what is the largest possible value of x?
- 10. The sum of four consecutive even integers is at least 252. Find the smallest possible values for these numbers.