**HOMEWORK DUE OCT. 23, 2013**

**With the following description of a set of numbers, give the set notation, the interval notation and graph it on a number line.**

1. The set of number that are less than 5.
2. List the set of integers that are greater than 5, but smaller than 10 and are even.
3. List the set of integers that are greater than 5 and are even.
4. A farmer has a pen for chickens; the maximum number of chickens that can fit in the pen is 25.
5. In order for a candle shop not to go out of business, they must sell at least 50 candles per day.
6. The same shop can only storage 300 candles in the shop. Describe again this situation.
7. The set of numbers which are greater than -3 and less than 7, including -3.
8. The ice cream truck sells more than 100 ice creams per day
9. The set of numbers which are greater or equal to 10.
10. The set of numbers which are less than or equal to -2.
11. The minimum number of hours a clerk can work at the supermarket per week is 15 and the maximum is 45.
12. The set of numbers that are smaller than 4 **or** greater than 7