7th Grade Math Name _____

I.4 Worksheet 1 Date _____ Hour _____

1) Find the outlier of the data set.
   43, 69, 49, 78, 88, 54, 73, 194, 54, 59, 70

2) Find the outlier of the data set.
   40, 62, 47, 68, 12, 78, 49, 65, 49, 52, 63

3) Find the outlier of the data set.
   44, 67, 52, 72, 82, 55, 70, 200, 55, 57, 68

4) Given the following data: 164, 175, 126, 135, 159, 143, 55

   a) What effect will the outlier have on the median of the data if the outlier is excluded?

   b) What effect will the outlier have on the mean of the data if the outlier is excluded?

   c) What effect will the outlier have on the mode of the data if the outlier is excluded?

   d) What effect will the outlier have on the range of the data if the outlier is excluded?

5) Given the following data: 46, 39, 38, 47, 45, 34, 83

   a) What effect will the outlier have on the median of the data if the outlier is excluded?

   b) What effect will the outlier have on the mean of the data if the outlier is excluded?

   c) What effect will the outlier have on the mode of the data if the outlier is excluded?

   d) What effect will the outlier have on the range of the data if the outlier is excluded?

6) What will be the variation in the mean temperature (°F) if the outlier is included?
108, 107, 100, 120, 63, 119, 118

7) What effect will the outlier have on the mean of the data if the outlier is excluded?
5, 8, 9, 7, 10, 6, 25

8) If Miguel earned the following test scores 89, 92, 86, and 97, his average (mean) test score would be 91. The teacher entered his scores in as 89, 92, 68 and 97.

   a) How is his mean going to change?

   b) If he were to not turn in a take home test and got a 0, how would his average change?