

## **Lab #5: Central Tendency & Variability**

- 1) Use words to define each of the following terms:
  - a. Mean
  - b. Median
  - c. Mode
  - d. Range
  - e. Mean Deviation
  - f. Sums of Squares
  - g. Variance
  - h. Standard Deviation.
  
- 2)
  - a. Which measure is more sensitive to scores in a distribution, the mean or the median?
  
  - b. Explain the three rules regarding central tendency and skewness.
  
  - c. What is a normal distribution?
  
- 3) Compute the mean, median, mode, range, mean deviation, variance, and standard deviation (using both the definitional and computational formulas) for the following data sets:
  - a. Number of successful free throws in basketball made out of 10 for each person:  
1, 2, 4, 5, 5, 6, 6, 6, 8, 9
  
  - b. Number beers drank in one night from a 12-pack for each of 10 people at a party:  
12, 4, 8, 6, 11, 12, 7, 9, 6, 10