Math 121

1. (10 pts) Use the following sample of 10 test scores in the parts below.

60, 72, 85, 89, 90, 93, 94, 95, 98, 100.

- (a) Find the mean.
- (b) Find the standard deviation.
- (c) Find the five-number summary.
- (d) Find the IQR.
- (e) Draw a modified boxplot of the sample.
- (f) Calculate the z-score of the number 60.
- 2. (10 pts) Two statistics professors, Dr. Jekyll and Mr. Hyde, are each teaching a section of introductory statistics. On the first test, the grades in Dr. Jekyll's class had a mean of 85 and a standard deviation of 8. In Mr. Hyde's section, the scores had a mean of 65 and a standard deviation of 14. Susie, a student in Dr. Jekyll's class, scored 95, while Jimmy, a student in Mr. Hyde's class, scored 86. Use their z-scores to tell which student did better on the test relative to their respective classes.
- 3. (10 pts)