

## HS267 Quiz, September 7, 2000

This quiz is intended to test your readiness for HS267 by addressing some of the basic information from the pre-req course.

1. Write the symbol used to denote a sample mean:
2. Write the symbol used to denote a population mean: \_\_\_\_\_
3. Does a mean tell you anything about the variability of a data set? Explain.
4. Does a 95% confidence interval for a mean intend to capture the sample mean or the population mean?
5. Draw a line through the stem of the following stem-and-leaf plot that locates the mean of the data set:

```
|8|2
|7|97
|6|6852
|5|13
|4|8
```

6. A survey has a question asking you to state your opinion on a five-point scale in which 5 indicates “strongly agree” and 1 indicates “strongly disagree”. What type of variable is this?
  - a. continuous
  - b. ordinal
  - c. categorical
  - d. none of the above
7. List one difference between a parameter and estimate.
8. Define “alpha”
9. Define “statistical inference.”
10. List the two main forms of statistical inference.