HOMEWORK 1

1.) Take the following test scores: 12, 12, 14, 26, 18, 19, 55, 91, 42, 41, 39, 42, 40, 46.
   a.) Put them in a stemplot.
   b.) How many peaks are there? What is the spread?
   c.) What is the mean and median?
   d.) Are there any outliers? Which observation(s) is/are outliers?

2.) (Problem 1.6 in the book) Popular magazines rank colleges and universities on their “academic quality” in serving undergraduate students. Describe five variables you would like to see measured for each college if you were choosing where to study. Give reasons for each of your choices.

3.) (Problem 1.2 in the book) A spreadsheet is given where the columns are “name”, “major”, “year”, “number of points earned”, and “letter grade”. Which variables are quantitative and which are categorical?

3.) (Problem 1.4 in the book) You are preparing to study the television-viewing habits of college students. Describe two categorical variables and two quantitative variables that you might measure for each student. Give the units of measurement for the quantitative variables.