WORKSHEET
(Chapter 1: sections 1.1.,1.2,1.3)

1. Identify the population and the sample:
   a) A survey of 1353 American households found that 18% of the households own a computer.
   b) A recent survey of 2625 elementary school children found that 28% of the children could be classified obese.
   c) The average weight of every sixth person entering the mall within 3 hour period was 146 lb.

2. Determine whether the numerical value is a parameter or a statistics (and explain):
   a) A recent survey by the alumni of a major university indicated that the average salary of 10,000 of its 300,000 graduates was 125,000.
   b) The average salary of all assembly-line employees at a certain car manufacturer is $33,000.
   c) The average late fee for 360 credit card holders was found to be $56.75.

3. For the studies described, identify the population, sample, population parameters, and sample statistics:
   a) In a USA Today Internet poll, readers responded voluntarily to the question "Do you consume at least one caffeinated beverage every day?"
   b) Astronomers typically determine the distance to galaxy (a galaxy is a huge collection of billions of stars) by measuring the distances to just a few stars within it and taking the mean (average) of these distance measurements.

4. Identify whether the statement describes inferential statistics or descriptive statistics:
   a) The average age of the students in a statistics class is 21 years.
   b) The chances of winning the California Lottery are one chance in twenty-two million.
   c) There is a relationship between smoking cigarettes and getting emphysema.
   d) From past figures, it is predicted that 39% of the registered voters in California will vote in the June primary.

5. Determine whether the data are qualitative or quantitative:
   a) the colors of automobiles on a used car lot
   b) the numbers on the shirts of a girl's soccer team
   c) the number of seats in a movie theater
   d) a list of house numbers on your street
   e) the ages of a sample of 350 employees of a large hospital

6. Identify the data set's level of measurement (nominal, ordinal, interval, ratio):
   a) hair color of women on a high school tennis team
   b) numbers on the shirts of a girl's soccer team
   c) ages of students in a statistics class
   d) temperatures of 22 selected refrigerators
   e) number of milligrams of tar in 28 cigarettes
   f) number of pages in your statistics book