Homework #1

42.

- a) All fitness members
- b) Fitness members that week
- c) Mean amount in all members
- d) Mean fitness members that week
- e) Time 1 client exercises that week
- f) Time all clients exercise that week

44.

- a) All patients
- b) Patients who have had heart attacks
- c) Mean recovery period for all patients
- d) Mean recovery for patients who have had heart attacks
- e) Recovery time for only 1 patient
- f) Recovery period for all patients

46.

- a) Voters in district
- b) Voters who think he is doing a good job
- c) Proportion of all voters
- d) Proportion of voters who think he is doing a good job
- e) A single voters opinion
- f) All voters who think he is doing a good job
- 51. X is an example of an A. variable.
- 52. A mean number of days absent of 3.5 days. Value is an example of a C. Statistic
- 54. Quantitative Continuous
- 56. Quantitative Discrete
- 58. Qualitative
- 60. Quantitative Disrete

66. Suppose you want to determine the mean number of students per statistics class in your state. Describe a possible sampling method in three to five complete sentences.

Make the description detailed.

If I wanted to figure out the mean number of students per statistics class in my state, I would first start off with separating my samples into three groups. A small/private school like whittier college, a Medium school such as UC's, and A Large school like Cal States. I would sample a minimum of 3 statistics classes per school, and get the average from each category, then I would get the mean of each school and average it out once more.

76.

a) Think about the state of the United States in 1936. Explain why a sample chosen from magazine subscription lists, automobile registration lists, phone books, and club membership lists was not representative of the population of the United States at that time.

Although the automobile registrations and the phone books sample shoices were random, I think people with magazine subscriptions and club memberships have similar interest and beliefs therefore they would probably get more voters with similar interests and making it an unfair survey.

- b) What effect does the low response rate have on the reliability of the sample?
 Low response rates have an effect on the poll because the more participants, the more accurate the outcome will be.
- c) Are these problems examples of sampling error or nonsampling error?
 Sampling Error
 - d) During the same year, George Gallup conducted his own poll of 30,000 prospective voters. These researchers used a method they called "quota sampling" to obtain survey answers from specific subsets of the population. Quota sampling is an example of which sampling method described in this module?

Quota sampling is an example of a Convenience Sample.

90.

- a) 4% of students at Long Beach City College do not have access to a computer at home
- b) About 100 students in the survey live at least 16 miles away from the campus
- The statistics would be similar because in both surveys they are interviewing college students