STUDENTS' STATISTICS DATA GATHERING  
Due Thursday, Nov. 12, 2009

It is now time to gather your data! Make sure that you give yourselves plenty of time to do so. Break up the workload evenly among everyone in your group. Your data gathering submission should observe the following:

1. Based upon feedback you have already received from me, you should provide an updated Proposal as well as an updated Study Design along with your Data Collection.
2. Do NOT hand in a stack of surveys! Do NOT hand in information “cut and pasted” from the internet.
3. You should have two samples, each taken from a different population. The samples should be labeled as to which population they came from. The sample sizes (do not have to be the same) should be stated as \( n_1 = \) and as \( n_2 = \) (and give their values, of course). Each sample should be a list of data. In other words, submit two lists of data.
   a. If you are comparing proportions, then you should state the trait that you are looking for. For your first sample, submit a list consisting of “successes” (those which have the trait) and “failures” (those which don’t have the trait). “Successes” can also be stated as “Yes”, and “Failures” can be stated as “No”, if that more closely resembles your survey questions. You’ll submit two such lists, one for each sample. You will also state the proportions of your two samples as \( \hat{p}_1 = \) and as \( \hat{p}_2 = \) (and give their values, of course).
   b. If you are comparing means, then you should submit two lists of numbers, each list corresponds to a sample. State what the units of measure are for the numbers in your list. For example, if they are the speeds of cars then it should be noted that the data is in miles per hour. Other examples of units of measure are: heights in inches, number of minutes it takes to complete an exam, the score or ranking (in points) on a survey taken, the salary in $ of a worker, etc. You will also state the means of your two samples as \( \bar{x}_1 = \) and as \( \bar{x}_2 = \) (and give their values, of course). Finally, you will state the standard deviations of your samples as \( S_1 = \) and as \( S_2 = \) (and give their values, of course).

The Data Gathering submission is worth 5 points and must be received no later than 11:59:59 pm on Thursday, Nov. 12, 2009. It is preferred that you submit your data gathering as a Microsoft Word Document attached to an e-mail (however, hard copies are also accepted). A point will be deducted from your project grade for every day that the Data Gathering is late (including days on the weekend). This is applied to every group member. Only one copy per group needs to be submitted but it must have the full names of all group members on it (as well as the days/times you attend class).

Feel free to e-mail me if you have any questions or concerns.

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