

Statistics Survey Project

Assignment:

Through a survey using (2) approved questions, compile a list of sample data. Obtain at least 50 values. Try to select questions that produce data from an interesting and meaningful population.

- a. Describe the questions investigated and the nature of the data. What do the values represent?
- b. Describe the method used in collecting the data.
- c. Explain possible reasons why the data might not be representative of the population. What are some possible sources of bias or error?
- d. Calculate appropriate statistics from the following: sample size, minimum, maximum, mean, median, mode, range, standard deviation, variance, quartiles. Discuss their relation to the data.
- e. Construct a frequency table, stem-and-leaf plot and histogram and explain what each tells you about your data.
- f. Write, in paragraph form, any conclusions or inferences that can be made from an analysis of your data.

Criteria:

1. Report should begin with a cover sheet that includes the title of your project, names of all members of your team, and the date.
2. The report should be word processed and double spaced. Charts, data sheets, and graphs should be neatly constructed and written in ink or computer printed. Graphs and charts should have a title and properly labeled axes.
3. Lists any references you might use for this project. (title, author, publisher)
4. All mathematical formulas must be given when computing test statistics. The substitution step should be shown before numerical answers are given. When using variables, be sure to state what each variable represents.
5. All explanations must be in paragraph form.
6. When organizing your project, place information in order of assignment list.
7. Attach to your project a report of how you and your team members worked on this project. Indicate who was responsible for what aspects of the project and if each member of the team contributed equally.