

Name: _____

Date: _____

A.P. Statistics Summer Assignment

Poster Project: Data Collection & Analysis

Purpose: For this project, you will collect data by taking a survey and organize your results in a table, bar graph, and line graph.

Materials Needed: poster, at least 30 willing participants, graph paper, ruler, markers, crayons, paints, and other decorative items

Date Due: Friday, September 11, 2009

Grade: 100 points. (15 points deducted for lateness per day.)

- You need to first decide on the theme of your project. What do you want to survey at least 30 people about? For example, maybe you want to collect data about people's favorite food, favorite website, shoe size, or whatever.
- After you decide on your topic, ask at least 30 people your one simple question and record their answers on a piece of paper. You can survey other students, family members, grocery store shoppers, whoever.
- Organize the data you collected in a neat table.
- Once you collect this data, create a bar graph on graph paper or use the Microsoft Excel chart. Your bar graph must be accurately drawn to scale using a ruler. Be sure to put a title and label the x and y axes.
- Next, create a line graph on graph paper or use the Microsoft Excel chart. Likewise, your line graph must be precise, drawn to scale using a ruler, and axes must be labeled with a title.

Grading: See the attached rubric.

Journal: You need to get a journal which you will keep in class. It can be simply a 1-subject notebook. You will do all of your homework in your journal.

For this project, you will write about the plan of this project in your journal. Always date entries in your journal. Describe the theme of your project, who you will survey, and what kind of results you expect BEFORE you begin collecting data. Once the project is completed, write about if the results you got were expected or were they completely different. In other words, how did the actual results compare to your predictions

Table (6 pt total)

- *Were at least 30 people interviewed? _____/3
- *Was the table drawn using straight lines? _____/3

Bar Graph (29 points)

- *Is there a title? _____/2
- *Are the axes labeled? _____/3
- *Is the bar graph drawn accurately according to the table? _____/8
- *Is the scale accurate? _____/8
- *Is the graph drawn using straight lines? _____/3
- *Is the graph on graph paper or a Microsoft Excel chart? _____/5

Line Graph (29 points)

- *Is there a title? _____/2
- *Are the axes labeled? _____/3
- *Is the bar graph drawn accurately according to the table? _____/8
- *Is the scale accurate? _____/8
- *Is the graph drawn using straight lines? _____/3
- *Is the graph on graph paper or a Microsoft Excel chart? _____/5

Journal (8 pts)

- *Is a description of the project written? _____/2
- *Is there a prediction written? _____/2
- *Is there a description of the comparison of results? _____/2
- *Are grammar rules like full sentences and spelling correct? _____/2

Other (28 points)

- *Is all the information on a poster? _____/4
- *Are there any pencil marks? _____/3
- *Is the poster “aesthetically pleasing?” _____/6
- *Was the poster project on time? _____/15

Project Grade _____