

STATISTICS PROJECT DESCRIPTION:

Objective: to gather, organize, present and analyze data

Statistician Name: _____

1. Choose a topic for your survey, your BIG Question. You must get teacher approval. Include 5 choices in the survey.

For example: What is your favorite flavor ice cream?

1. Chocolate
2. Vanilla
3. Strawberry
4. Coffee
5. Rocky Road

2. You are to conduct a **random** survey of 50 students (respondents) which is a **representative sample** of the entire 6th grade student *population* at your school. Record their responses and gender on the survey sheet provided. The results of this survey will be used to complete **Part 1** of the project.
Do not misplace the survey... it will be a part of your final report.

3. **As we cover** the following topics, you will complete the following sections of **Part 1**.

- a) create a *frequency table or graph*, by hand or computer, which organizes your survey data
- b) create a *computer generated bar graph*
- c) create a *computer generated line graph*
- d) create a *computer generated pie (circle) graph*

4. **Questions to be answered on this sheet:**

Normally,

- a bar graph is best used to _____
 - a line graph is best used to _____
 - a circle graph is best used to _____
- a) show change over time
 - b) compare quantities
 - c) compare parts to the whole

How many students would you have expected to choose **choice #1** (first column) **of your survey if** you had interviewed 100 students _____

150 students _____

300 students _____

5. The last section of **Part 1** will be a three paragraph paper. This paper should be written in ink or typed on a word processor. Neatness, as well as correct spelling and grammar, are important.

- Paragraph 1: Description of the topic that was surveyed, including the reason(s) why you chose that topic.
- Paragraph 2: Description of the survey population, survey sample, what percent were girls, boys, and how the data was collected (internet, telephone, person to person).
- Paragraph 3: Description of how this data could be used in the real life, in other words, its importance to an industry, business etc. How could this survey be of use in the real world? Give some thought concerning this paragraph.

Have questions? ASK !!!!!!!