

7th Grade Math Project

Data Analysis: Polling and Surveys

For this project you will become a polltaker, surveying at least fifty (collectively) of your classmates, other students, or teachers on a given question. The question must be one that will be relevant and produce only numerical answers. For example, How many e-mails do you receive a day? In any case you must see me first!

After asking fifty people your polling question, combine the data and record all the answers on the entry form attached, you are to do each of the following:

1. Measures of Central Tendency (10 points)

- Find the mean and median, and then compare them to see if there are any outliers in the data set your survey generated. Be sure to show all work to support your answers.
- Find the mode from your sample of fifty people, and then use a proportion to predict the number of people in the entire school (population = 380) that would have answered your survey question with this value. Be sure to show all work to support your answers.

2. Graphic Presentation (10 points)

- Construct a frequency table using an appropriate scale and intervals. Each of you will submit a frequency table of the data **YOU** collected.

- Each team must submit a histogram, a line Plot, a box & whisker graph, a bar graph and a circle graph from your frequency table.

3. Written Analysis (10 points) 1 per team

In at least one full typed page using a 12-pointfont, accomplish the following. . .

- Describe what methods you used to poll people. For example, who did you ask the given question? Where and when did you poll them? How and why did you conduct your survey in this manner?
- Explain any observations that you can make directly from the data you collected, and what inferences you can draw from them.
- Did any of your results surprise you, and why or why not? Of what interest might they be to **teachers**, your fellow **students**, or **anyone else**?
- Which graph best displays your data ?

4. Presentation (10 points)

- Be prepared to present your data analysis to the class.
- Displays of your graphic presentation should be colorful and informative.
- You will use Power Point to present your information to the class. This part will be done in school!!!!
- Be prepared to answer questions that your classmates may have about your analysis.

*taken & adapted from Mr. Miller

5. Teacher & Team Evaluation (10 Points)

This project is due at the beginning of class on 3/31/2010 and is equivalent to 50 % of a test grade.

8th Grade Math Project
Survey and Data Analysis Project

Name _____

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	Value	Score
MEASURES OF CENTRAL TENDENCY	10 TL	
Correct mean with supporting evidence	3	
Correct median with supporting evidence	3	
Correct projection of mode for school population with supporting evidence.	4	
GRAPHICAL PRESENTATION	10 TL	
Frequency distribution with appropriate scale and intervals	5	
All graphs neat and properly constructed	5	
WRITTEN ANALYSIS	10 TL	
Proper grammar, spelling, punctuation	4	
Adequately addresses survey methods	2	
Adequately addresses survey conclusion	2	
Adequately addresses reaction to and usefulness of survey conclusions	2	
PRESENTATION	10 TL	
Adequately presents the information to the class	5	
Speaking skills - loud, clear, and precise	5	
Teacher & Team Evaluation	10 TL	
How well you work in your Partner	10	
TOTAL POINTS	50	