Example Statistics Study

Name

Class Name

Example Statistics Study

**Introduction**

The basis of this study is to find out how long it takes OEC students to get to school in the morning. I administered a survey which asked students to record how long it takes them to get to school. I was trying to understand the length of time that... The population of my study is all Students at OEC.

**Method**

In order to get a good representation of the population I used a simple random sample of OEC students. I acquired a list of all OEC students and numbered all of the students 1-150. I then used a random number generator to select 30 random students, which ended up making up my sample. During the week of September 24 to September 27 I administered a survey to the 30 students who were selected. The survey stated, “How long does it take you to get to school in the morning,” and it was followed by a fill in the blank line for the students to write in their response. I then recorded the information they gave me on the attached data sheet. The following is the data I got from my sample...

**Results**

After conducting my sample I found out the following interesting information. First the mean of my data was 22.5 minutes. The median of my data was 18 minutes. The difference between the mean and the median implies that data must be skewed to the right as seen in Figure 1. I also found that the majority of students take between 10 and 19 minutes to get to school as seen in Figure 2. My data goes on to show that...

*Figure 1.* Time It Takes to Get to School

*Figure 2.* Minutes it takes to get to School

**Discussion/Conclusion**

According to my data in my study I have reached many interesting conclusions about how long it takes OEC students to get to school. First, I found that 50% of students travel 10-19 minutes to get to school. I also found that 27% of students travel 20-29 minutes to get to school. According to the mean I found that on average students travel about 22.5 minutes to get to OEC, with a minimum travel time of 5 minutes and a maximum travel time of 62 minutes. With these findings, I found that OEC students have all different drive times to get to school. This is a lot different than what one might find at a typical high school. It is interesting to find out how long it truly takes students to get to school here. I learned that...

**RUBRIC**

|  |  |  |  |
| --- | --- | --- | --- |
| Introduction | Introduction of the study was not approved by Mr. Snyder  (0pts) |  | The introduction of the study describes what the study is about  (2pts) |
| Population | The study does not give any population.  (0pts) | The study provides a population but it does not match the sample (1pt) | The study provides a sound population that matches the sample (2pts) |
| Sample/Method | The sample and design of the sample is not random and not described (0pts) | The Sample is described yet misses some description of how the sample was chosen (2pts) | The sample clearly is described and designed... Free from bias.. (4pts) |
| Data and Results | Data is not Complete (0pts) |  | Data is provided  (2pts) |
| Data Interpretation in Result and Discussion/Conclusion | The data is not interpreted.. no graphs or mathematical tools used (0pts) | The data is interpreted but there is a problem with a graph or math tool (2pts) | The data is interpreted correctly and clear  (4pts) |
| Conclusion | The conclusion does not summarize the study (0pts) | The conclusion is missing a piece (2pts) | The conclusion is complete and comprehensive (4pts) |