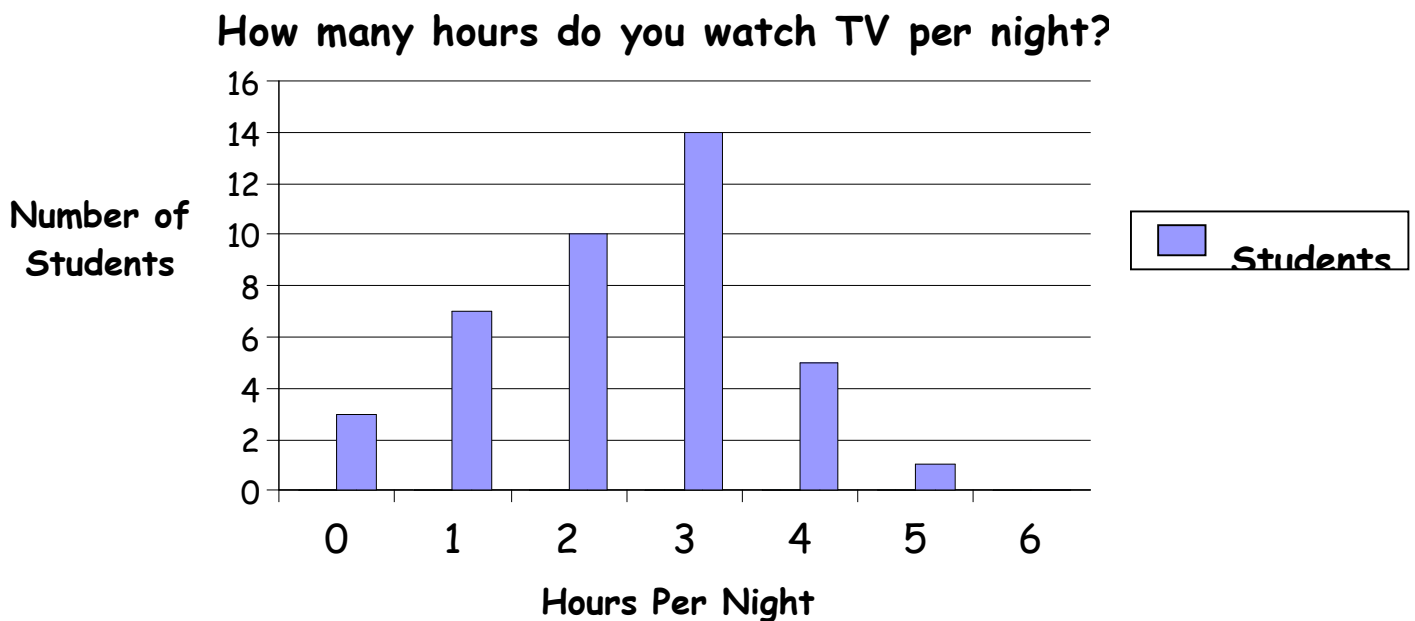


CULMINATING TASK - SAMPLING PROJECT!!

Directions: In order to synthesize what you are learning about sampling in Unit 4, you will be completing a Sampling Project as a culminating task. You will be creating a sample or survey (questionnaire) and giving it to a sample of people. You will then analyze and come to conclusions about the data that you receive. The breakdown of the project is as follows:

- 1) Pose a Question (5 points)** – the question must be quantitative (measurable), and all questions must be approved by Mr. Harris before moving on to the next step
 - *Question = How many hours of TV do you watch per day?*
- 2) Identify the Population (5 points)** – the population being studied must be large enough so that it is reasonable to have to take a sample to gather your data
 - *Population = All CLAS Middle School students (approximately 2,300 students)*
- 3) Select a Sample Size (5 points)** – the sample population must be large enough to be representative of the entire population, yet small enough to be fairly easy to collect data
 - *Sample Size = 40 students*
- 4) Determine the Method (5 points)** – the method of sampling can be either random sampling or convenience sampling, **NOT** both (you must explain why it is either a random or convenient sample!)
 - *Method = Convenience Sampling (ask 40 students during P.E.)*
- 5) Representative or Biased (5 points)** – determine whether the sample population you chose is representative of the entire population (all CLAS students) or biased
 - *Representative or Biased = Biased, because all students at P.E. were 6th graders*
- 6) Gather and Analyze Data (5 points)** – gather the necessary data and analyze your results
 - Gather = ask the students in your P.E. Class
 - Analyze = look over your results and make conclusions about the entire population
- 7) Graphically Represent Your Results (5 points)** – use a bar graph, pie chart, etc. to show the various responses you received when you asked your question to other students (***Make sure you explain your graph and tell me what it means!!!***)



8) **How could your survey have been more random and/or representative of the population? (5 points)** – write a paragraph where you explain at least two ways your survey could have been more random and/or representative of all CLAS students.

9) **Central Tendency (5 points)** – determine the mean, median, and mode of the data you collected by using your knowledge of the measures of central tendency (to receive credit, you must show all of your work!)

- *Mean = 2.25 hours, Median = 2.5 hours, Mode = 3 hours*

10) **Conclusion (5 points)** – state your conclusion to your original question, and how you came to this conclusion

- *Conclusion = I conclude that most of the students at CLAS watch 3 hours of TV per night.*

11) **Overall Presentation (5 points)** –

Grading: Your project will be graded on a point system, out of a possible total of 50 points.

- 4 = 50-55 points
- 3 = 35-49 points
- 2 = 25-34 points
- 1 = 24 and below

Due Date: The final completed project is due on **Monday March 28th** at the beginning of the period. Projects turned in after the due date will be deducted 5 points for every day that it is late. Projects will only be excepted within that week.

HELPFUL HINTS TO RECEIVE AN "A":

- Take it step by step and use class time effectively ... Don't wait until the last minute!
- Ask for help!
- Be CREATIVE! (Create a poster, booklet, pamphlet, etc.)
- Be NEAT!
- Have FUN!