

Project Chapter 2 - Categorical Data Analysis

Directions for Online Classes: *This will be an individual project. Each student will analyze one categorical data set from the math 075-survey data fall 2015 create a poster summarizing their findings. Students can chose from the following columns of data: Tattoo, Texting While Driving, Favorite Social Media, Transportation to School, Car Accident, Cigarettes, Eat Breakfast, Glasses/Contacts, High School in Santa Clarita, Living with parents*

After submitting the project to their instructor, students will then go to the "Chapter 2 Project Class Discussion" in Canvas and discuss their findings with other students in the class.

The Individual Poster Should Have

- The poster does not have to be extremely large.
- Your first and last name on the poster
- What column of data did you chose?
- A few sentences explaining why this data is important or interesting to you?
- Go to StatKey at www.lock5stat.com and enter the column of data under "One Categorical Variable" in the "Descriptive Statistics" menu. Then enter the column of data under "edit data". Remember to check the box that says "raw data" before pushing "OK". Also check "header row" if data has a title.
- Copy the "Summary Statistics" table from StatKey onto your poster in large letters.
- Draw the bar chart onto your poster.
- Convert all of the proportions listed on the Summary Statistics table into percentages.
- Use the percentages to draw a Pie chart on your poster. Make sure to label each piece of the pie with the name, count and percentage.
- Does you think that the percentages are significantly different?
- Do any of the percentages seem unusual or surprising?
- Can you think of any reasons why the percentages are different?
- Decorate Poster

Now take a picture of your poster project and submit the picture to your instructor in Canvas.

After submitting the picture of the poster, go to the discussion menu in Canvas and complete the "Chapter 3 Project Discussion". You will be discussing your findings with other students in the class.

Directions for Face to Face Classes: *The class will be separated into groups. Each group is required to pick a "team name" for their group and analyze one column of categorical data from the math 075-survey data fall 2015, create a poster summarizing their findings, and present the poster to other students in the class.*

Each group will have a different topic and will pick one of the following data sets to present it to their classmates: Tattoo, Texting While Driving, Favorite Social Media, Transportation to School, Car Accident, Cigarettes, Eat Breakfast, Glasses/Contacts, High School in Santa Clarita, Living with parents

The Group Poster Should Have

- The Team Name
- First and Last Name of each team members on the poster
- What column of data did your group chose?
- A few sentences explaining why this data is important or interesting to your group?
- Go to StatKey at www.lock5stat.com and enter the column of data under "One Categorical Variable" in the "Descriptive Statistics" menu. Then enter the column of data under "edit data". Remember to check the box that says "raw data" before pushing "OK". Also check "header row" if data has a title.
- Copy the "Summary Statistics" table from StatKey onto your poster in large letters.
- Draw the bar chart onto your poster.

- **Convert all of the proportions listed on the Summary Statistics table into percentages.**
- **Use the percentages to draw a Pie chart on your poster. Make sure to label each piece of the pie with the name, count and percentage.**
- **Does your group think that the percentages are significantly different?**
- **Do any of the percentages seem unusual or surprising?**
- **Can your group think of any reasons why the percentages are different?**
- **Decorate Poster**

Presentation

Make sure each person on the team understands the poster and can present your findings. Bring your poster to a designated presentation area in the classroom and hang or tape your poster to a wall. One person at a time will present the poster. We will then rotate so that each member of the team gets to present. Everyone else will listen to presentations and give feedback with sticky notes. (Be Nice!)
