

Math 075 Project#2

Two-Way Tables & Categorical Relationships

The class will be broken up into groups of three or four. Each group will pick a team name and two categorical variables from the Math 075 Survey Data Fall 2015 to study. Each group should have a different pair of variables to study.

Group#	Team Name	Categorical Variable A	Categorical Variable B
1		Political Party	Hair Color
2		Smoking	Political Party
3		Texting/Driving	Car Accidents
4		Smoking	Transportation
5		Gender	Political Party
6		Breakfast	Fixed Intelligence
7		Hair Color	Gender
8		Fixed Intelligence	Political Party
9		Tattoo	Gender
10		Political Party	Tattoo
11		Tattoo	Hair Color
12		Smoking	Tattoo

Poster Directions

- Use a statistics software to make a two-way table for the two chosen variables. Put the two-way table with totals on the front of your poster.
- Find two basic marginal percentage questions that involve only one variable. Remember to use the grand total. Put the questions on the front of your poster and the answers on the back of the poster.
- Find two “AND” joint percentage questions that involve two variables. Remember to use the grand total. Put the questions on the front of your poster and the answers on the back of the poster.
- Find two “OR” joint percentage questions that involve two variables. Remember to use the grand total. Put the questions on the front of your poster and the answers on the back of the poster.
- Find two conditional percentage questions that have the same variable for the percentage, but have a different condition. Remember to use the total for your condition. Put the questions on the front of your poster and the answers on the back of the poster.
- Put the following question on the front of your poster and the answer on the back of your poster: Are the two conditional percentages close or significantly different?

- Put the following question on the front of your poster and the answer on the back of your poster: Are the two variables involved in the conditional percentages related or not?
- Decorate your poster and make sure everyone in your group can present the poster.

Presentation Directions

Each group will put their poster up around the room. Chose one person from the group to present first. Everyone else in the class who is not presenting will find a poster that is not their own. Presenter asks the audience the questions and see if they can get the correct answers. Discuss the solutions and what you liked about the poster. Rotate presenters so that everyone has a chance to present. Each presentation should take about 5 minutes. Make sure audience rotates to new posters as well.