

Name \_\_\_\_\_ Date \_\_\_\_\_ Per \_\_\_\_\_

### Survey Project with Categorical Data

\*Please use your notes on Categorical Data as a guideline to help you complete this project\*

The BIG idea: You will take a survey of your peers and collect bivariate data (two variables based on the same population). Record this data in a two way table. Then create two different relative frequency tables to describe your data in percents. Analyze the results, make conclusions, and present your findings to the class.

#### *The Beginning*

Using examples from class as a guide, write three sets of survey questions that you will consider asking your peers. All data must be QUALITATIVE. Since this is bivariate data, you need to know TWO things about each person you interview. Record your ideas below.

1.

2.

3.

Discuss these ideas with a friend and decide which ONE sounds like the best idea.

\*\*Make a prediction of what the results will be of your survey.

1.

#### *The Survey*

Using the spreadsheet, record your question and set out to ask 25 people both/all questions. Be sure to record each person's name and the question(s) asked.

#### *The Two-Way Frequency Table*

Complete the table to record your survey variables and data. Be sure to include the **totals** for each row and column of data, as well as the total of the sample size.

#### *Relative Frequency Tables*

Using the data from your table, complete both relative frequency tables totaling the percentages both vertically and horizontally. Make sure all boxes are labeled. Please record both fractions and percentages!

### *The Analysis*

Record five conclusions from any of your tables. Be specific; includes numbers (raw data, fractions, percents) to explain.

1.

2.

3.

4.

5.

### *The Presentation*

Cut out and glue your tables to construction paper or a small poster board. Your display should include the survey topic, your tables and your name and period. You may use the ELMO to present your data to the class. Be prepared to speak for about one minute telling us what your survey was about, what you predicted the results would be, and what your data tells us about the actual results.

## Survey

Name				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				

*Two-Way Frequency Table*

			<b>TOTAL</b>
<b>TOTAL</b>			

*Relative Frequency Tables*

	Table 1:		
			TOTAL
(n = _____)			100%
(n = _____)			100%

	Table 2:	
	(n = _____)	(n = _____)
TOTAL	100%	100%

### Grading Rubric

Completion of this packet:

	Points	Comments
Survey ideas	/2	
Prediction(s)	/1	
Survey of 25 people	/7	
Conclusions	/5	
Total	/15	

Data:

Two-Way Frequency Table	Variables labeled	/2	
	Data	/2	
	Totals	/2	
Relative Frequency Table	Title	/1	
	Variables labeled	/1	
	Sample sizes	/1	
	Fractions	/4	
	Percentages	/4	
	%s total 100%	/1	
Relative Frequency Table	Title	/1	
	Variables labeled	/1	
	Sample sizes	/1	
	Fractions	/4	
	Percentages	/4	
	%s total 100%	/1	
	Total	/30	

Presentation:

Data	Easy to SEE	/3	
	Data glued on paper/poster	/2	
Speaking	Explain your survey question, your prediction, and describe the results	/5	
	Total	/10	

GRAND TOTAL      /55 points