

Statistics Exercise - doing a Survey

In this project you are going to do a survey. That is you are going to

- ask people questions about something that you want to know
- put the results in a spreadsheet.
- analyze the data
- make a report

Part 1

1. What do you want to find out?
2. What question or questions are you going to ask people?
3. How many people are you going to survey?
4. How did you choose the people you surveyed?
5. How will you record your answers?

Example - Sports Survey

1. I want to find out what sport people like best.
2. I asked them the question “What is your favorite sport?” I also wanted to know if there was a difference in favorite sports between boys and girls.
3. I surveyed as many people as I could at school - I wanted to survey more than 200. I didn't count people who said that they didn't like sports or didn't have one favorite sport.
4. I surveyed students at PIO high school,
5. I record the results on a paper then put them into a spreadsheet like this

	A	B
1	gender	sport
2	F	volleyball
3	M	volleyball
4	M	volleyball
5	M	football
6	F	volleyball
7	F	football
8	M	football

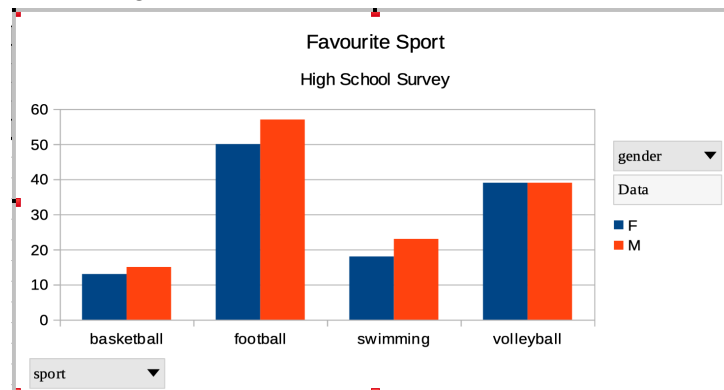
Part 2

1. Make a new spreadsheet.
2. Put your data into the spreadsheet. I had two columns, one for gender and one for sport.

- Make a pivot table of your data. The pivot table looked like this.

	A	B	C	D
1	Count - gender	gender		
2	sport	F	M	Total Result
3	basketball	13	15	28
4	football	50	57	107
5	swimming	18	23	41
6	volleyball	39	39	78
7	Total Result	120	134	254

- Make a column chart using the pivot table



My Report

Answer these questions on a new worksheet in your spreadsheet.

- I wanted to find out *what a student's favorite sport is.*
- I surveyed *254* people.
- I chose people who *were at PIO high School and who had one favorite sport..*
- Do you think that people gave you a truthful answer to your questions? *I couldn't be sure, but at least 90% thought about their answer before telling me.*
- How did you record your data? *I put the answers on paper and then put them into a spreadsheet.*
- How will you display your results? *Using a pivot table and a column chart*
- What did you learn when you analyzed the data? *For both boys and girls football is their favorite and basketball is the least favorite.*
- What could you have done to make the survey better?
 - I could have asked people if they played their favorite sport or just watched it being played.
 - I could have found out how many didn't like sports.
 - I could have found what percentage didn't play sports.
 - If they didn't play sport I could have asked why

e. I could have done more analysis using percentages.

sport	F	M	Total Result
basketball	11%	11%	11%
football	42%	43%	42%
swimming	15%	17%	16%
volleyball	33%	29%	31%
Total Result	100%	100%	100%