

1. Determine the information from the two way frequency table.

The boys and girls of a class were surveyed about whether they liked to swim or ski. The two way table shows the results of the survey.

- a) How many students in the class? _____
- b) How many girls in the class? _____
- c) How many students like to ski? _____
- d) How many boys like to swim? _____
- e) How many girls don't like to swim? _____

	Swim	Ski	Total
Boys	6	10	16
Girls	7	5	12
Total	13	15	28

The class had been surveyed about who had been to Canada, Europe or both. The two way table shows the results of the survey.

- f) How many people were surveyed? _____
- g) How many people had been to Canada? _____
- h) How many people had not been to Europe? _____
- i) How many people had not been to either? _____
- j) How many people had been to Canada & Europe? _____

	Europe	Not Europe	Total
Canada	3	22	25
Not Been to Canada	2	7	9
Total	5	29	34

2. Complete the two way frequency tables.

a) Students were asked in Middle and High School which they liked more, Math or English. Complete the two way table from the given information.

	Math	English	Total
Middle		18	43
High	19		31
Total			74

b) Girls and boys were asked about what their favorite color was of the four given. Complete the two way table from the given information.

	Red	Green	Blue	Yellow	Total
Male		3	10		27
Female	6	8		7	
Total	19		14		

3. Complete the two way tables.

In the class of 24 boys and 10 girls a survey was given about whether they liked Justin Bieber or Katie Perry. 20 boys liked Katie Perry and 9 of the girls liked Justin Bieber. Complete the two way table.

	Justin Bieber	Katie Perry	Total
Boys			
Girls			
Total			

4. Boys and girls were asked whether they liked meat or peanut butter sandwiches for lunch.

- a) Give a joint frequency value for the boys: _____
- b) Give the marginal frequency value for meat: _____
- c) How many students were surveyed? _____

	Meat	Peanutbutter
Boys	10	18
Girls	19	11

5. Complete the two way tables and determine the requested probability.

a) A class of 35 students were asked if they were members of the chess club or math club. 16 were in the chess club, 10 were in both, 9 students weren't in either club.

$P(\text{math club}) = \underline{\hspace{2cm}}$

		Total
Total		

b) 15 boys and 20 girls were surveyed about music preference between Top 40 and 80's music. 25 students picked Top 40, and 2 girls picked 80's music.

$P(\text{Boy and Top 40's}) = \underline{\hspace{2cm}}$

		Total
Total		

c) 62 people were interviewed about whether they had an iPhone and iPad. 30 had an iPhone but not an iPad, 12 had neither, and 14 had both.

$P(\text{iPad}) = \underline{\hspace{2cm}}$

		Total
Total		

6. Complete the two way tables.

a) High School freshman were surveyed about their use of Facebook and Twitter. Of the 80 freshman surveyed, 65 use Twitter, 69 use Facebook, and 62 use both. Create a two way frequency table and then determine:

$P(\text{Not Twitter and Not Facebook}) = \underline{\hspace{2cm}}$

b) 60 shoppers in a grocery store were asked whether they liked chicken or beef and whether they liked rice or pasta. Out of 21 customers that liked rice, 14 liked chicken. There were 35 customers that liked chicken. Create a two way frequency table and then determine:

$P(\text{Pasta and Beef}) = \underline{\hspace{2cm}}$