5.1 Frequency Tables

Corrective Assignment

NAME:_____

DATE:_____

Fill in the missing cells of the two way frequency tables.

1.

Own an iPhone

People	Yes	No	Total
Teachers	20		
Students		60	
Total	150		240

2.

Political Party

Generation	Rep	Dem	Ind	Total
Baby Boomers	50	45		103
Gen X		118		255
Millennials	60		82	
Total		218	112	

3.

Favorite Day of the Week

Gender	Wed	Thur	Fri	Sat	Sun	Total
Boys		18		48	16	107
Girls	6		34	40		
Total		38	55		48	

Convert the two way frequency tables from above into relative frequency tables.

4. convert #1

Own an iPhone

People	Yes	No	Total
Teachers			
Students			
Total			

5. convert #2

Political Party

Generation	Rep	Dem	Ind	Total
Baby Boomers				
Gen X				
Millennials				
Total				

6. convert #3

Favorite Day of the Week

Gender	Wed	Thur	Fri	Sat	Sun	Total
Boys						
Girls						
Total						

Use the two way frequency table and relative frequency table to answer the following.

Two Way Frequency Table

Type of Student	Study for Test: Yes	No	Maybe	Total
A Students	28	3	1	32
B Students	22	8	6	36
C Students	14	12	10	36
Total	64	23	17	104

Relative Frequency Table

Type of Students	Study for Test: Yes	No	Maybe	Total
A Students	.269	.028	.009	.307
B Students	.211	.076	.057	.346
C Students	.134	.115	.096	.346
Total	.615	.221	.163	1

7. What percent of students will study for the test?

8. What percent of the students are B students that will study?

9. How many B students surveyed said "Maybe" ?

10. How man C students were surveyed?

11. Given a student is a B student, what percent said "No" to studying?

12. If you randomly selected a student who said "Yes" to studying, what percent are B students?

13. If you randomly selected a student that was a C student, what percent said "Maybe" to studying?

Answers to Corrective Assignment 5.1

1.

People	Own an iPhone: Yes	No	Total
Teachers	20	30	50
Students	130	60	190
Total	150	90	240

2.

Generation	Political Party: Rep	Dem	Ind	Total
Baby Boomers	50	45	8	103
Gen X	115	118	22	255
Millennials	60	55	82	197
Total	225	218	112	555

3.

	Wed	Thur	Fri	Sat	Sun	Total
Boys	4	18	21	48	16	107
Girls	6	20	34	40	32	132
Total	10	38	55	88	48	239

4.

People	Own an iPhone: Yes	No	Total
Teachers	.083	.125	.208
Students	.541	.25	.791
Total	.625	.375	1

5.

Generation	Political Party: Rep	Dem	Ind	Total
Baby Boomers	.09	.081	.014	.185
Gen X	.207	.212	.039	.459
Millennials	.108	.099	.147	.354
Total	.405	.392	.201	1

6.

Gender	Favorite Day of the Week: Wed	Thur	Fri	Sat	Sun	Total
Boys	.016	.075	.087	.2	.066	.447
Girls	.025	.083	.142	.167	.133	.552
Total	.041	.158	.23	.368	.2	1

7. 61.5%

8. 21.1%

9. 6 students

10. 36 students

11. $\frac{8}{36} = 22.2\%$

12. $\frac{22}{64} = 34.3\%$

13. $\frac{10}{36} = 27.7\%$