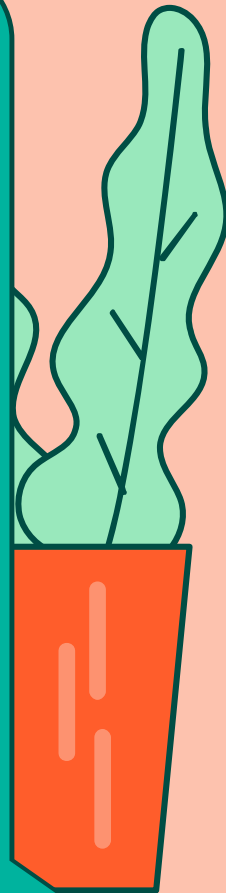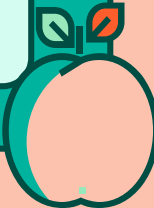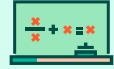# Number of Gadgets available for online classes as a College Students

Mathematics in the Modern World

Nature of Data

-Set of Quantitative Data

- Survey Questions:
- What is your Gender
- How many gadgets are available for your online classes?

Nature of Data

Gadgets is one of the most important thing that students should have in order to engage in the Philippines new distance learning techniques.

We wanted to know if the enrolled college students in the Philippines A.Y 2020-2021 have enough gadgets for their online classes.
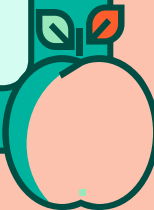
Ungrouped Frequency Distribution Table

Female

number of gadgets	Frequency	% Frequency
1	5	0.2
2	13	0.52
3	5	0.2
4	2	0.08
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
others:	0	0
	25	

Figure 1.1 Ungrouped Frequency Distribution Table for Female

Male

number of gadgets	frequency	Frequency
1	2	0.08
2	16	0.64
3	5	0.2
4	1	0.04
5	1	0.04
6	0	0
7	0	0
8	0	0
9	0	0
others:	0	0
	25	

Figure 1.2 Ungrouped Frequency Distribution Table for Male
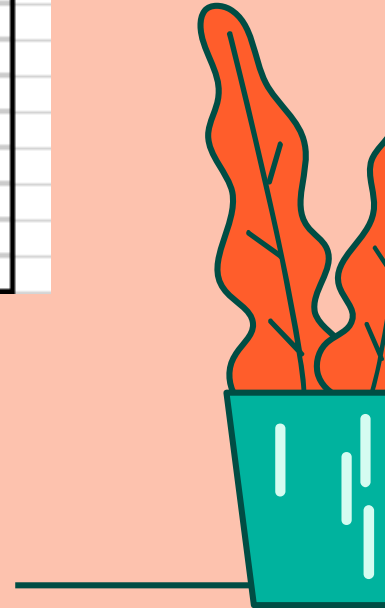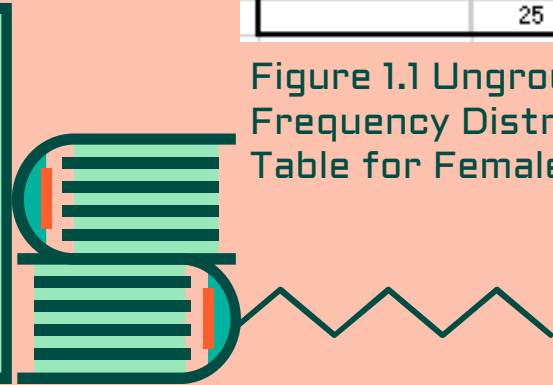
Number of Gadgets Available for online classes (Female)

| others: 0% | 4 8% | 3 20% | 1 20% | 2 52% |
| Chart Area |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | others: |

Figure 2.1 Number of Gadgets Available for Online classes (Female)

Number of Gadgets Available for online classes (Male)

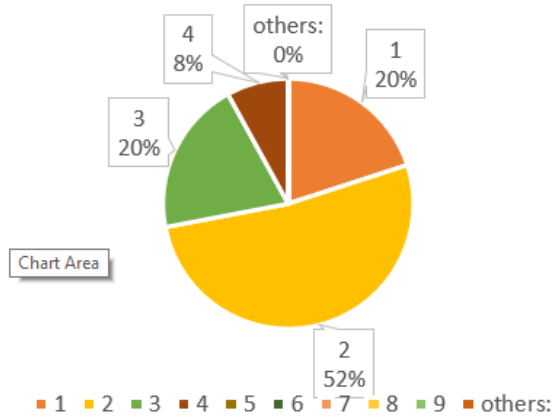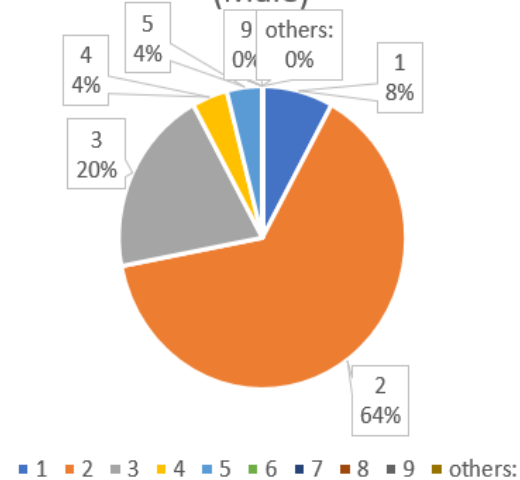| 5 4% | 9 0% | others: 0% | 1 8% | 4 4% | 3 20% | 2 64% |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | others: |

Figure 2.1 Number of Gadgets Available for Online classes (Male)

Female Data

Table Number	Gender	x	number of gadgets	Frequency	% Frequency
1	Female	2	1	5	0.2
2	Female	1	2	13	0.52
3	Female	3	3	5	0.2
4	Female	2	4	2	0.08
5	Female	3	5	0	0
6	Female	2	6	0	0
7	Female	2	7	0	0
8	Female	3	8	0	0
9	Female	2	9	0	0
10	Female	1	others:	0	0
11	Female	2		25	
12	Female	2			
13	Female	2			
14	Female	2			
15	Female	4			
16	Female	3			
17	Female	3			
18	Female	4			
19	Female	2			
20	Female	2			
21	Female	2			
22	Female	2			
23	Female	1			
24	Female	1			
25	Female	1			

x (Female)

Mean	2.16
Standard Error	0.170098011
Median	2
Mode	2
Standard Deviation	0.850490055
Sample Variance	0.723333333
Kurtosis	0.111830956
Skewness	0.556917241
Range	3
Minimum	1
Maximum	4
Sum	54
Count	25

Kurtosis: 0.1118
Skewness: 0.5569 Moderate skewed

Male Data

Table Number	Gender	x	number of gadgets	Frequency	% Frequency
1	Male	1	1	2	0.08
2	Male	2	2	16	0.64
3	Male	2	3	5	0.2
4	Male	2	4	1	0.04
5	Male	2	5	1	0.04
6	Male	2	6	0	0
7	Male	3	7	0	0
8	Male	2	8	0	0
9	Male	2	9	0	0
10	Male	2	others:	0	0
11	Male	2		25	
12	Male	3			
13	Male	3			
14	Male	2			
15	Male	2			
16	Male	2			
17	Male	3			
18	Male	2			
19	Male	2			
20	Male	3			
21	Male	5			
22	Male	4			
23	Male	2			
24	Male	1			
25	Male	2			

x (Male)

Mean	2.32
Standard Error	0.1704895
Median	2
Mode	2
Standard Deviation	0.8524475
Sample Variance	0.7266667
Kurtosis	3.3622953
Skewness	1.4943247
Range	4
Minimum	1
Maximum	5
Sum	58
Count	25

Kurtosis: 3.3623
Skewness: 1.4943 Highly Skewed

Measures of Central Tendency

	Mean	Median	Mode
Female	2.16	2	2
Male	2.32	2	2

Measures of Variability

	Range	Standard Deviation	Variation
Female	3	0.85	0.72
Male	4	0.85	0.72

Measures of normality

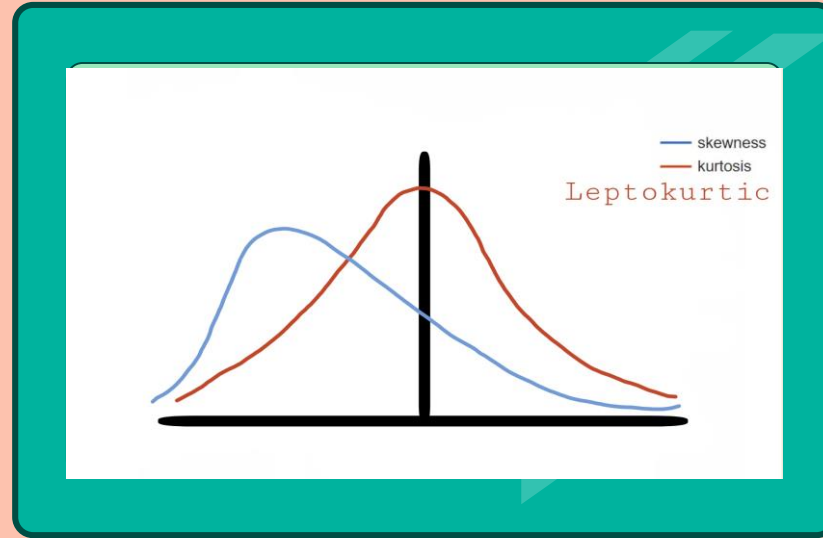|	Sk	Ku
Female	0.56	0.11
Male	1.49	3.36

Graph of Normal Curve

Figure 3.1 The Graph of Normal Curve for Female and Male

Both female and male skewness is skewed to the right because they are both positive

Both female and male are leptokurtic because they are having greater kurtosis than the normal distribution also they are both positive.

Measures of Central Tendency

	Mean	Median	Mode
Female	2.16	2	2
Male	2.32	2	2

For the measures of central tendency we will use the median to represent the data.

Measures of Variability

	Range	dard Deviation	Variation
Female	3	0.85	0.72
Male	4	0.85	0.72

In Conclusion, the standard deviation of both female and male Are the same which is 0.85. and the variation for both Male and Female is also the same which is 0.72.

Measures of Normality
(Skewness and Kurtosis)

	Skewness	Kurtosis
Female	0.56	0.11
Male	1.49	3.36

Both female and male skewness is skewed to the right because they are both positive

Same in kurtosis the both female and male are leptokurtic because they are having greater kurtosis than the normal distribution also they are both positive.

Conclusion

Base on the gathered data, we therefore concluded that most of the college students has more than one gadget available for their online classes and majority of them has 2 gadgets that could be use for their online classes for more productivity.

But we also need to consider that there are still students who only rely on one gadget making it harder for them in the new distance learning when their gadget encountered a problem

THANKS!

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