Math Bali Real Life Problem

During this quarter 4, we had another assessment given. We are assigned to create a statistic graph about the survey we had in Bali. Before we had the assessment, we are given an introduction to statistic graph. The graph that we learned are pictogram, bar graph, line graph, and pie graph. From the assessment given, we are assigned to create 2 graph for each question of the survey. The survey are given to 20 people when we had a field trip to Bali. The theme of the survey was enhancing good quality of life. In this case, we need to ask people about their work and income to show how good is the quality of life in Bali.

Table of the data collected

1. Gender

Gender	Number of people
Male	16
Female	4

2. Age

Age	Number of people
20-25	2

Age	Number of people
26-30	6
31-35	2
36-40	7
41-45	1
46-50	2

3. Occupation

Occupation	Number of People
Farmer	2
Hotel Service	2
Entrepreneur	6
Guide	5
Marine Walk Crew	1
Painter	1
Sea Captain	2
Village Chief`	1

4. Range of salary

Range of Salary	Number of people
≤ Rp.500.000	
Rp.500.000-Rp.1000.000	4
Rp.1.000.000-Rp.1.500.000	4
Rp. 1.500.000-Rp. 2.000.000	4
Rp.2.000.000-Rp.2.500.000	2
Rp.2.500.000-Rp.3.000.000	1
≥Rp. 3.000.0000	5

5. Last Level of Education

Last Level of Education	Number of People
SD	
SMP	1
SMU	12
D1	2
D2	
D3	

Last Level of Education	Number of People
S1	5
S2	
S3	

6. Marital Status

Marital Status	Number of People
Single	4
Married	16

7. Child

Range of Child	Number of people
1-3	12

Range of Child	Number of people
4-6	0

Stating why choosing bar graph and line to represent the data collected

The easiest chart for me to analyze the data is Bar Graph. Bar graph shows the clearest data analyzed than other chart. The bar graph show what is being measured and how much quantities on what the bar graph is measuring. The bar graph show the message clearer than other graph since the are no complexion in analyzing the data. A bar graph is very useful for recording certain information whether it is continuous or not continuous data. The bars provide a visual display for comparing quantities in different categories or groups. Bar graphs help us to see relationships quickly. The line graph shows no complexion in showing the data. Line graph shows the clearest data analyzed than other chart. The line graph show what is being measured and how much quantities on what the line graph is measuring. The line graph show the message clearer than other graph since the are no complexion in analyzing the data. Line graphs allow us to see overall trends such as an increase or decrease in data over time.

Conclusion about the quality of life in Bali

Category 1/Question 1: Gender

Analyzing from the bar graph and line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali are male. The graphs shows that there 16 men and 4 woman that are interviewed. It is shown in the bar graph and line graph that the graph of male is higher than the female. Concluding from the graphs, we know that the ratio of man is bigger that woman who work in Bali.

Category 2/Question 2: Age

Analyzing from the bar graph and line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali are in the age of 36-40. The graphs shows that there are 7 men in the age of 36-40 that are interviewed and surveyed. It is shown that the graph of people who are interviewed in the age of 36-40 is higher than the other. Concluding from the graphs, we know that most of the people who work in Bali is in the age of 36-40.

Category 3/Question 3: Occupation

Analyzing from the bar graph and line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali are working as an Entrepreneur. Bali is a famous tourism, which is why people are working as an

entrepreneur in Bali to gain profits and money from the visitor who visit Bali. Entrepreneur is a common work in Bali, which produce much profits. It is shown very clear the graph of people who work as an Entrepreneur is higher than other occupation. There are 6 people who work as an Entrepreneur out of 20 people who are interviewed and surveyed. Concluding from the graphs, we know that Entrepreneur is a common work in Bali. It is a very common work in Bali because Bali is a tourism place and Entrepreneur produce profits.

Category 4/Question 4: Range of Salary

Analyzing from the bar graph and line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali have the range of salary above Rp. 3.000.000. But it doesn't makes us think that the total number of the people who have the range of salary below 3.000.000 is larger than the people who have the range of salary above 3.000.000. This data changes the view of people who think that living in Bali is a good opportunity. The data shows that even Bali is a famous tourism, the quality of life in bali is not as what is expected. It is shown that the total number of people who have the range of salary below 3.000.000 is larger than the people who have the range of salary above 3.000.000. Most of the people in Bali is working as Farmer and that is why most of the people in Bali have the range of salary below Rp. 3.000.00.

Category 5/Question 5: Last Level of Education

Analyzing from the bar graph and the line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali reach SMU/Kejuruan as their last level of education. It is shown that the graph of people who reach SMU as their last level of education is higher than others. The data change the view of people who think that living in Bali is a good opportunity. Even Bali is a famous tourism place that may gain lots of income if we work there, most of the people who are interviewed only reach SMU. It is very obvious that the economy in Bali causes most of the people only reach SMU as their last level of education.

Category 6/ Question 6: Marital status

Analyzing from the bar graph and the line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali are married. It is shown that the graph of the people who are married is higher than the people who are single. The data changes the view of the people who think that living in Bali is a good opportunity. Most of the people who are married have the range of salary below Rp. 3.000.000 which makes them difficult to keep providing needs for his or her family.

Category 7/Question 7 : Child

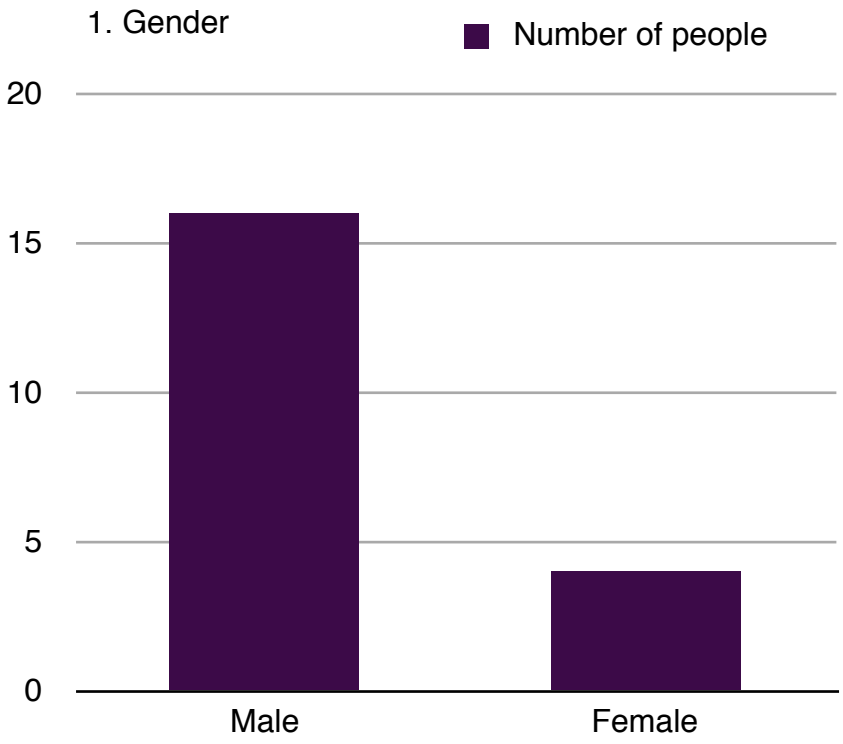
Analyzing from the bar graph and the line graph drawn, most of the people who are interviewed and surveyed about enhancing good quality of life in Bali have the range of child between 1-3. It is shown that the graph of the people who are married is higher than the people who are single. Even their child is in the range between 1-3, the data show that it's hard for them to keep providing need for his or her family because most of the people have the range of salary below Rp. 3.000.000.

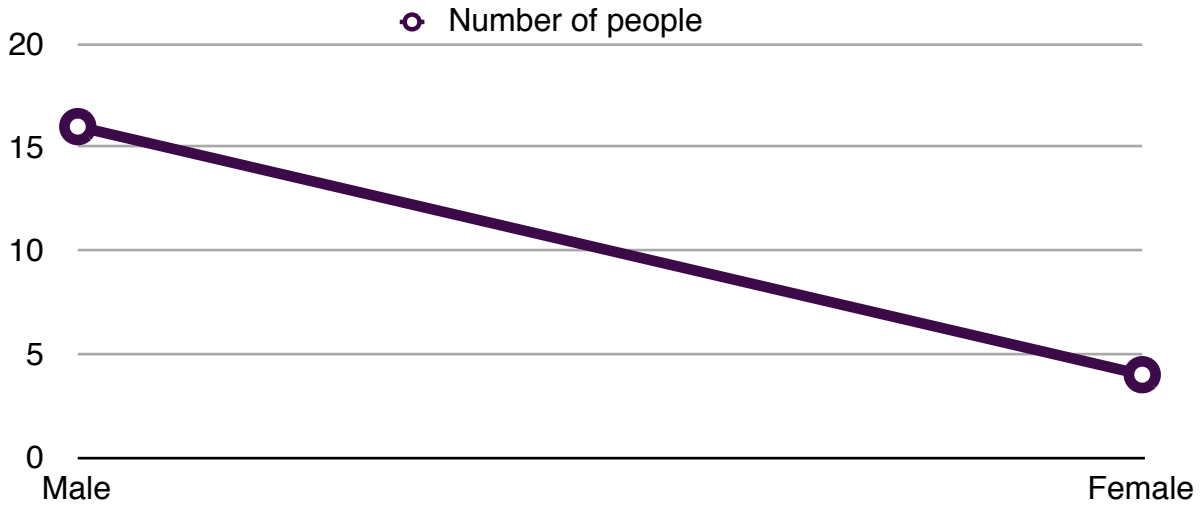
Conclusion

Analyzing from the data, we know that life in Bali is not as what is expected even Bali is a famous tourism. People think that living in Bali would be a very good opportunity because Bali is very famous tourism and will gain lots of profits, but the data changes the perspective or the view of people that living in Bali will be a very good opportunity. The data shows that most of people who are interviewed and surveyed are married, and the age between 36-40, but most of the people who are interviewed have the salary below Rp. 3.000.000. This factor cause them difficult to keep providing needs for his or her family.

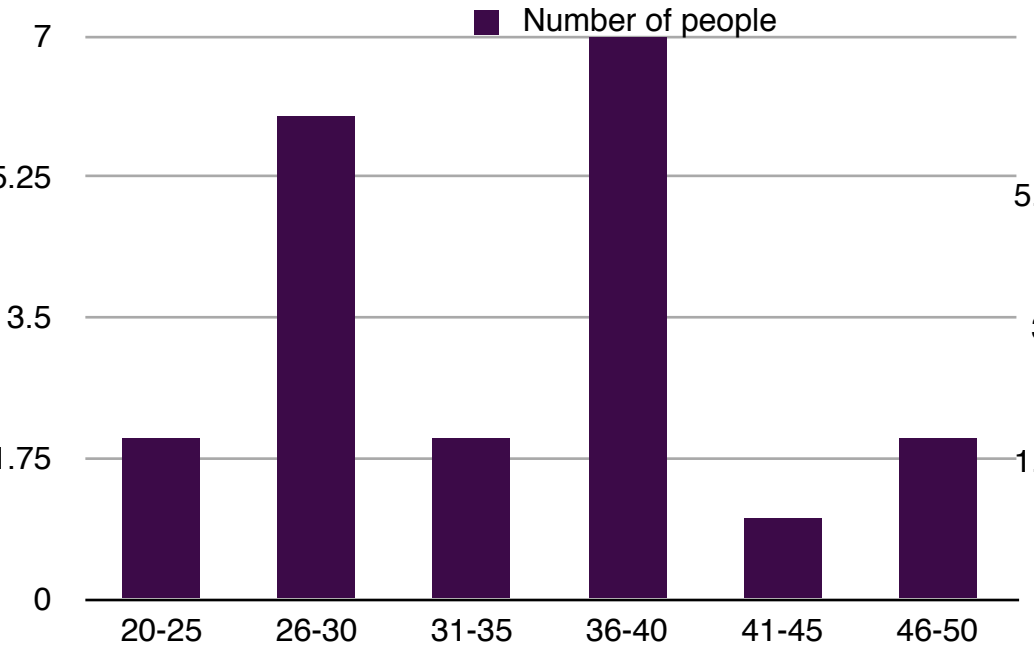
Reflection

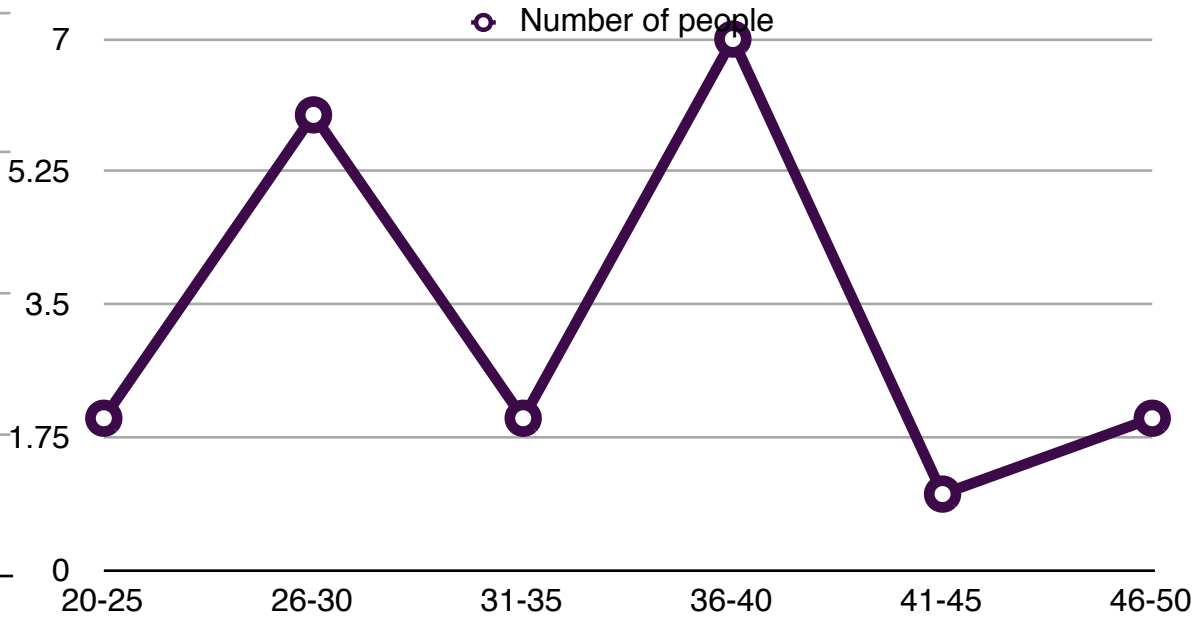
a. Justification of our finding with second method



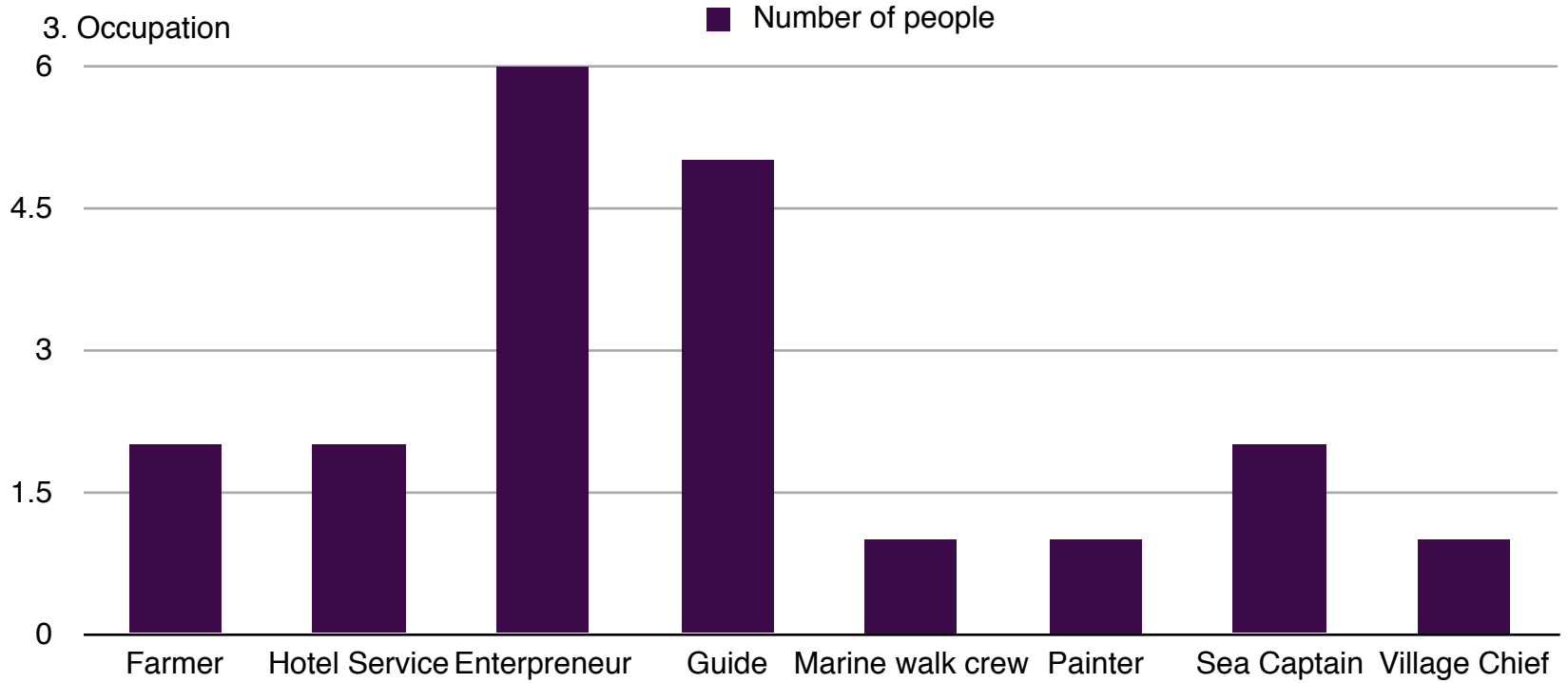


2. Age





3. Occupation



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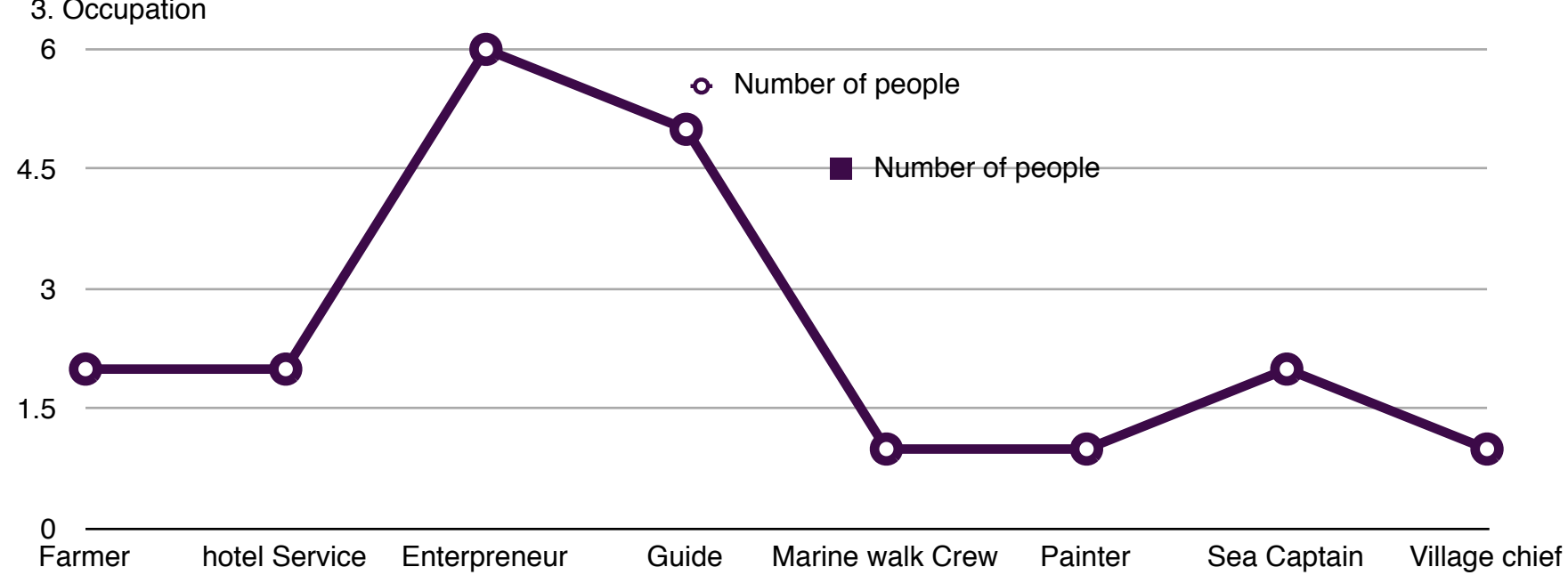
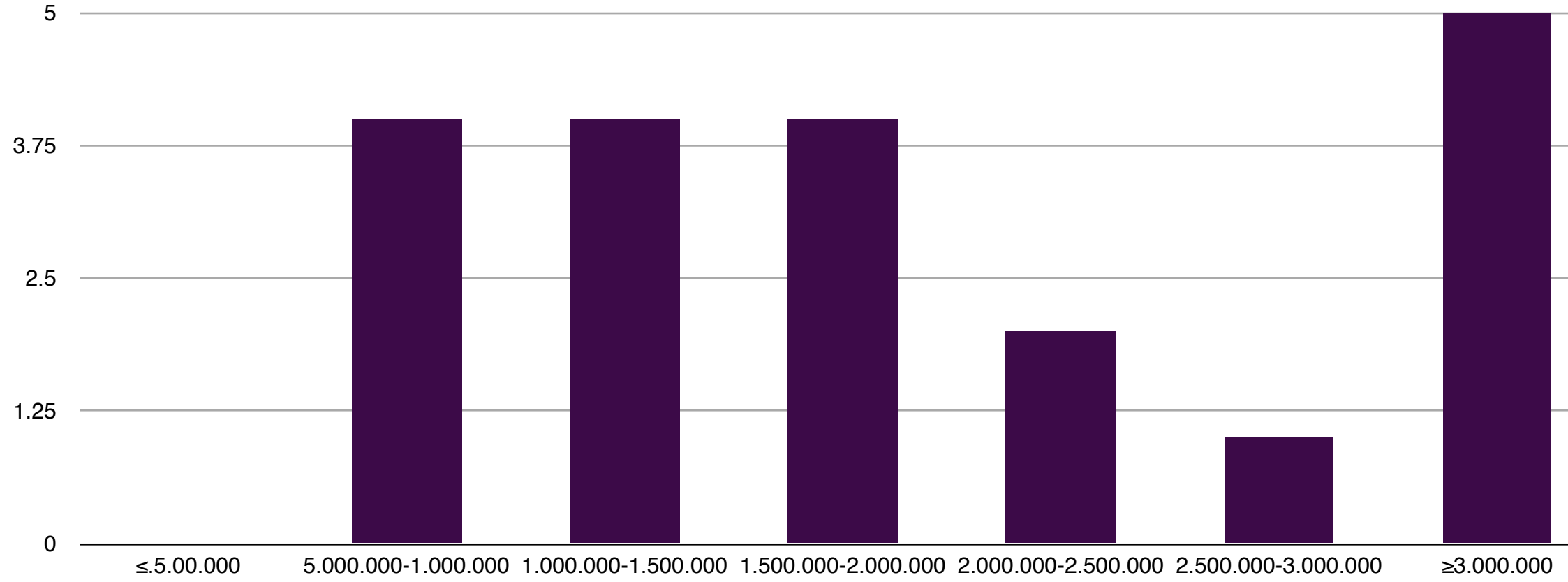


4. Range of Salary



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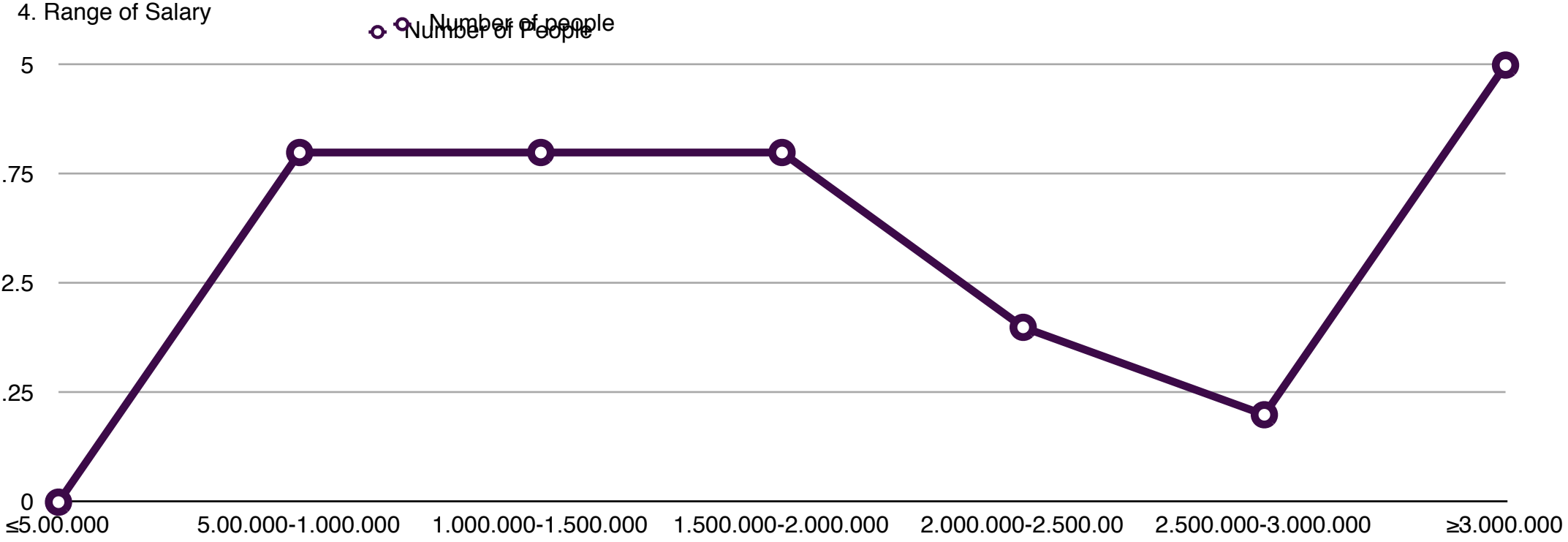
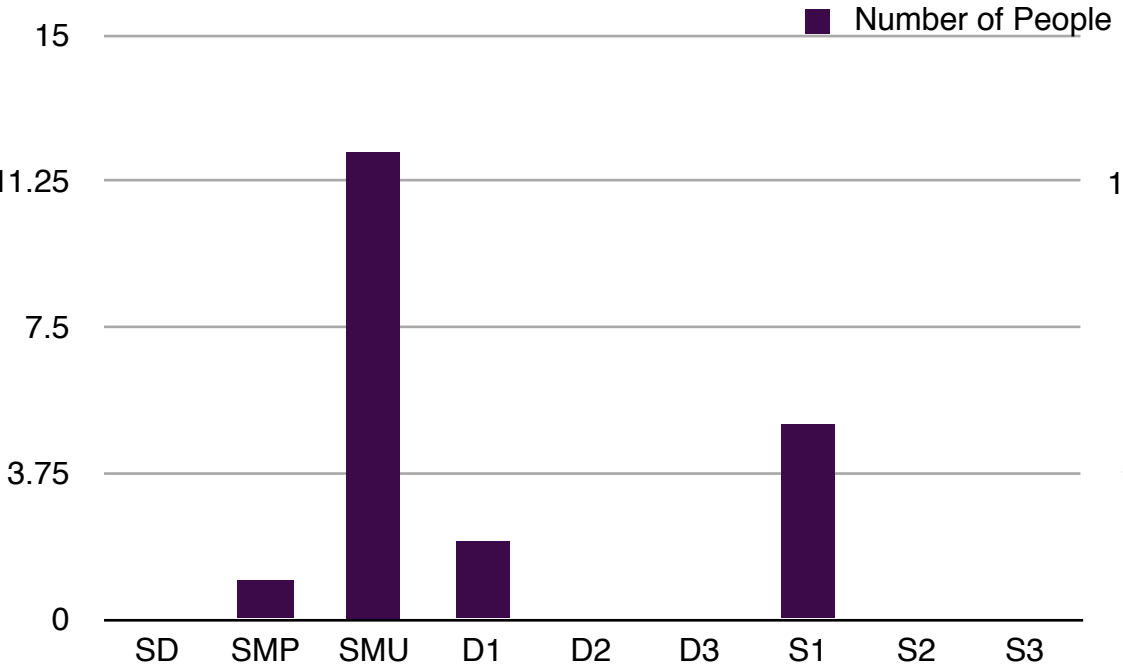
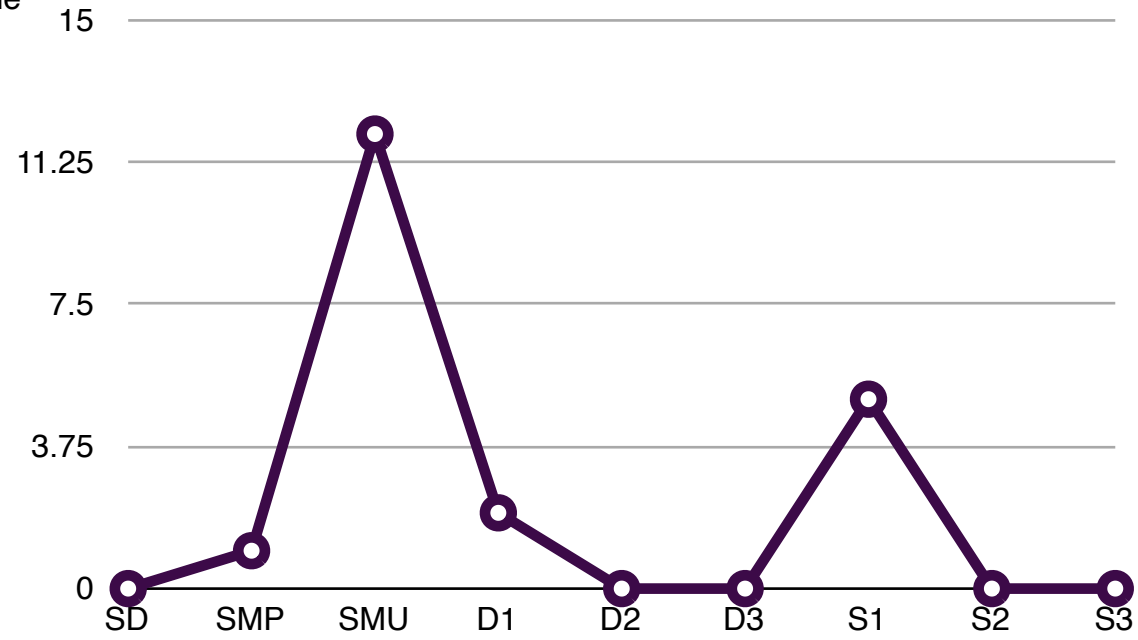
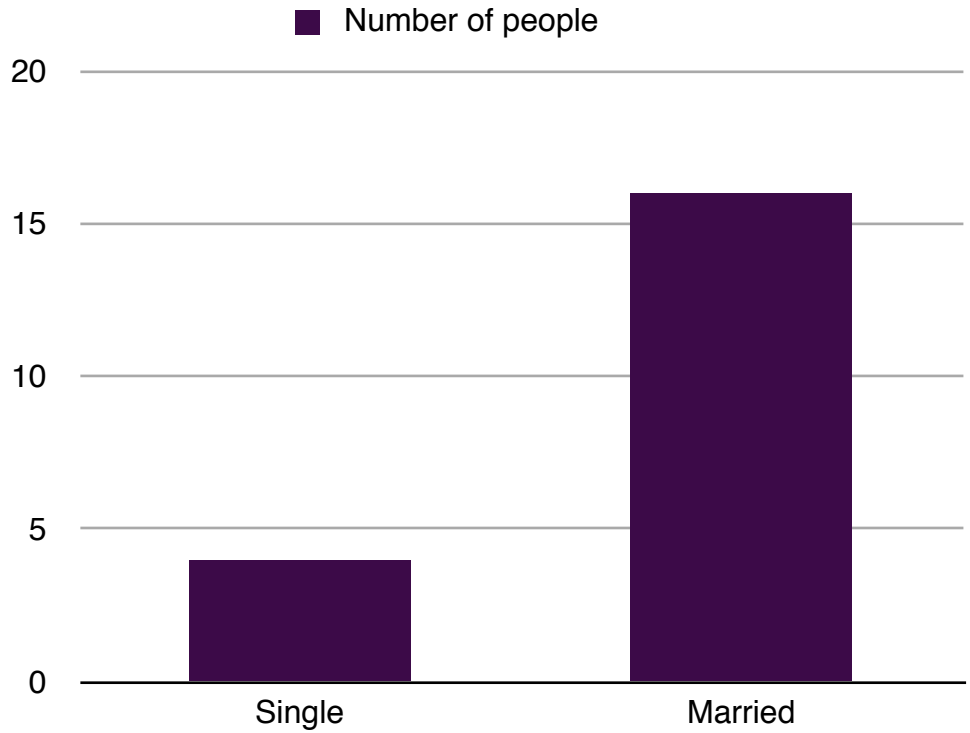


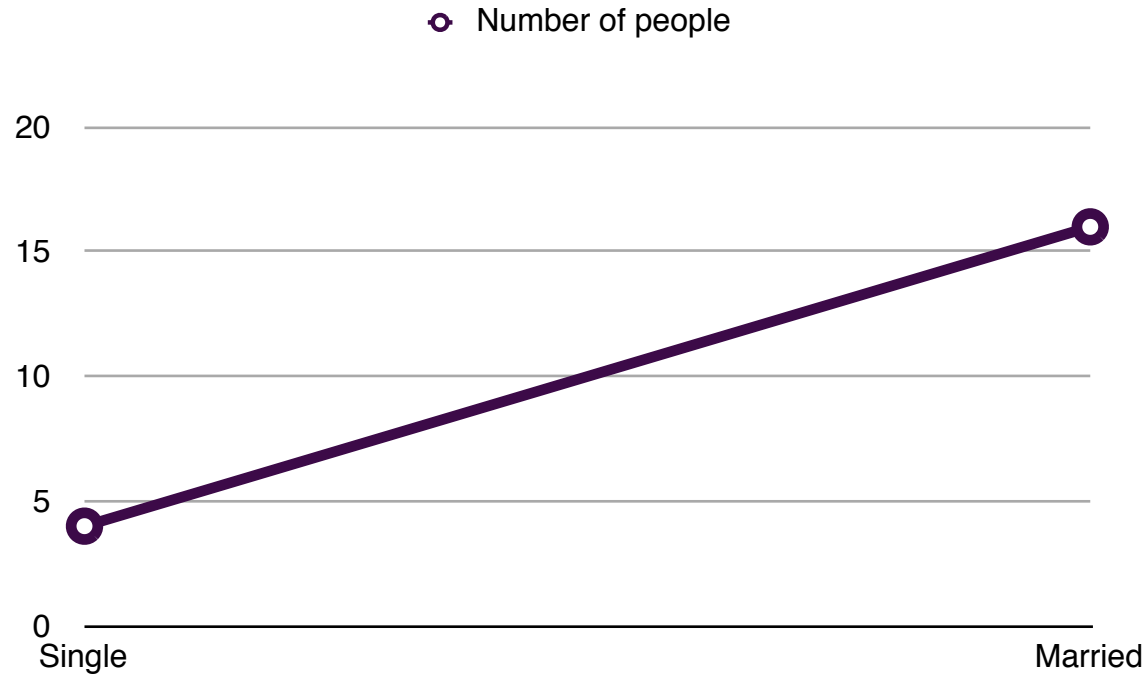
5. Last Level of Education



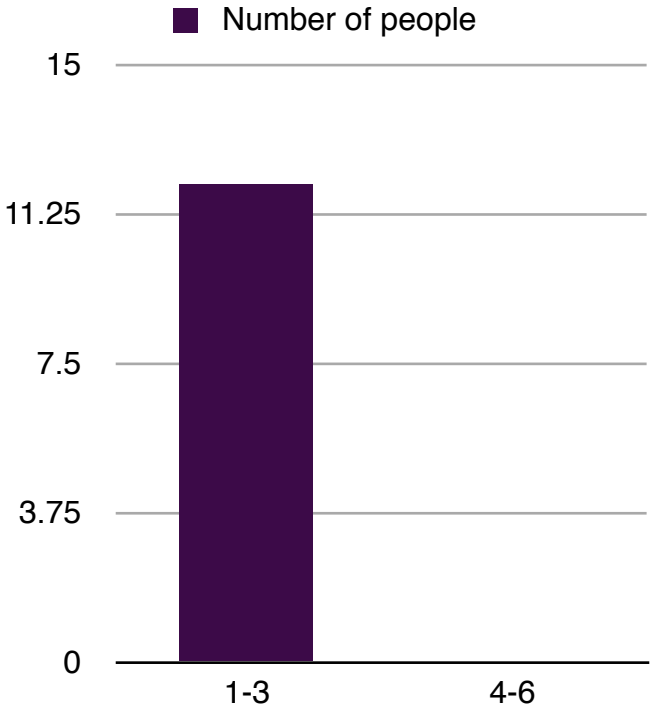


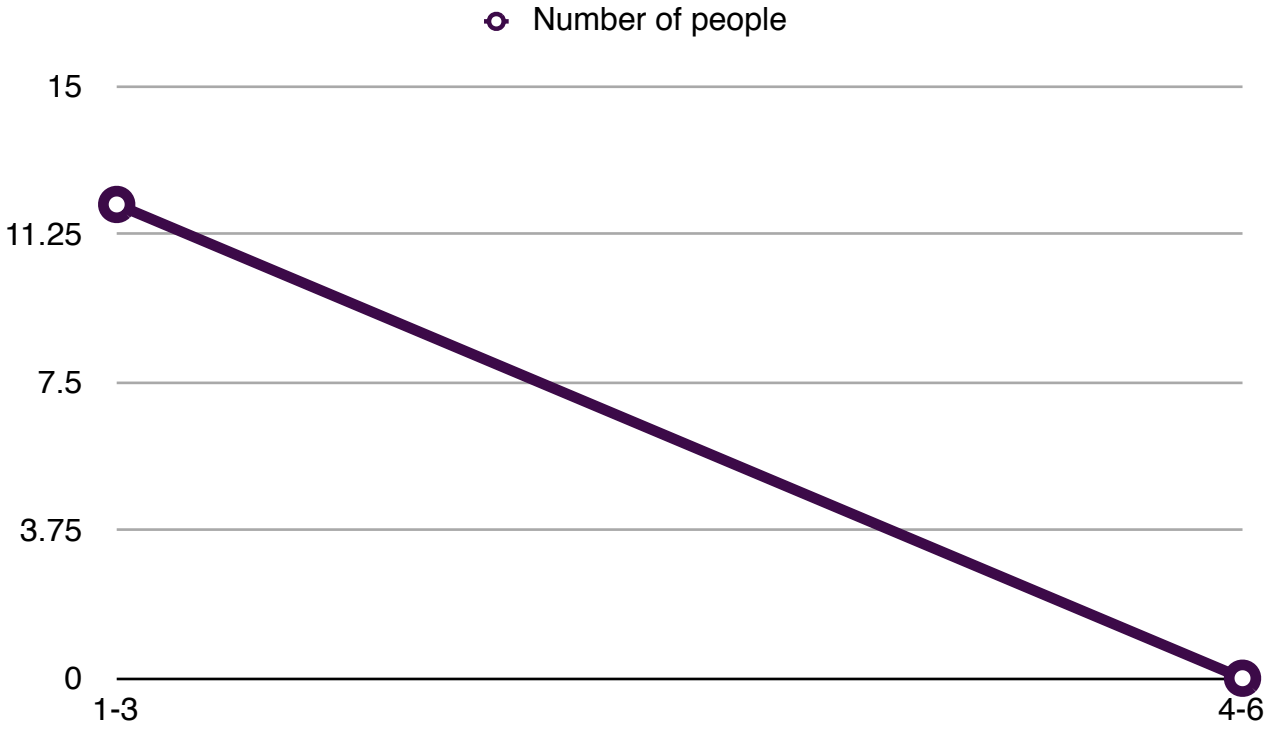
6. Marital Status





7. Child





Method	Advantages	Disadvantages	Improvements
1st method (Hand drawing graph)	1. The design of the graph could be designed in our favor. 2. By drawing the graph, it could improve our hand writing and hand drawing.	1. The hand drawing graph may cause the graph unclear and not neat. 2. The hand drawing graph may not offer a very accurate result. 3. It may take a long time to create the hand drawing graph.	1. Creating a paper sheet that are use for creating graph.
2nd method (Excel Method)	1. The excel method offers a very accurate result 2. The excel method creates the graph very fast. 3. There are no complexion in using excel method to create a graph 4. Drawing the graph very clear and neat.	1. For someone who is new to Microsoft Excel, it is hard for them to use excel for create the graph in Excel. 2. Computer may loss the excel data which it also loss the graph that we had made in Excel.	1. The excel method offers a very clear and simple guide or steps to create the graph in a very accurate result. 2. The excel data provide a software that may prevent the loss of the data.

Relating it to real life

Creating the graph is very useful and helpful when we are collecting data. Some of the examples of creating the graph to collect data are creating the graph of collecting the total number of citizen in an area, the profit or money received in a company, collecting the data of a visitor who come to a country, collecting the data of lower-class citizen, middle-class citizen, and high-class citizen. The graph is very useful because by looking at the graph of the data that are collected, it will be much easier for us to understand.