Exercise - 1

1.1 a) quantitative

b) qualitative

c) qualitative

d) qualitative

e) qualitative

1.2. a) quantitative

b) qualitative

c) qualitative

d) quantitative

e) quantitative

f) quantitative

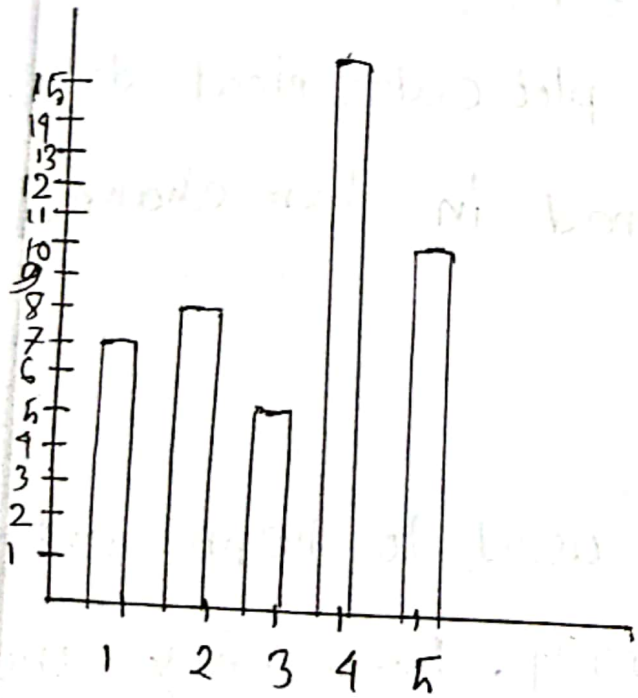
1.3. a) Differences: Histograms are used to show distributions of variables while bar charts are used to compare variables. Histograms plot binned quantitative data while bar charts ~~to~~ plot categorical data. Bars can be ~~recorded~~ reordered in bar charts but not in histograms.

b) Numbers and agles are used to represent bar diagram and pie diagram. Frequency and

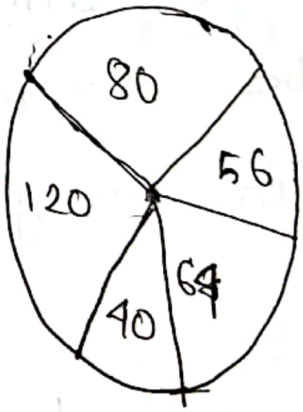
mid value are used to represent a histogram and frequency curve

c) line diagram, bar diagram and pie chart are used to represent statistical data Pie chant and bar graphs are used for qualitative data. Histograms are used for quantitative data.

1.4. Days:	1	2	3	4	5	Total
Number of calls:	7	8	5	15	10	45
Angles :	56	64	40	120	80	360



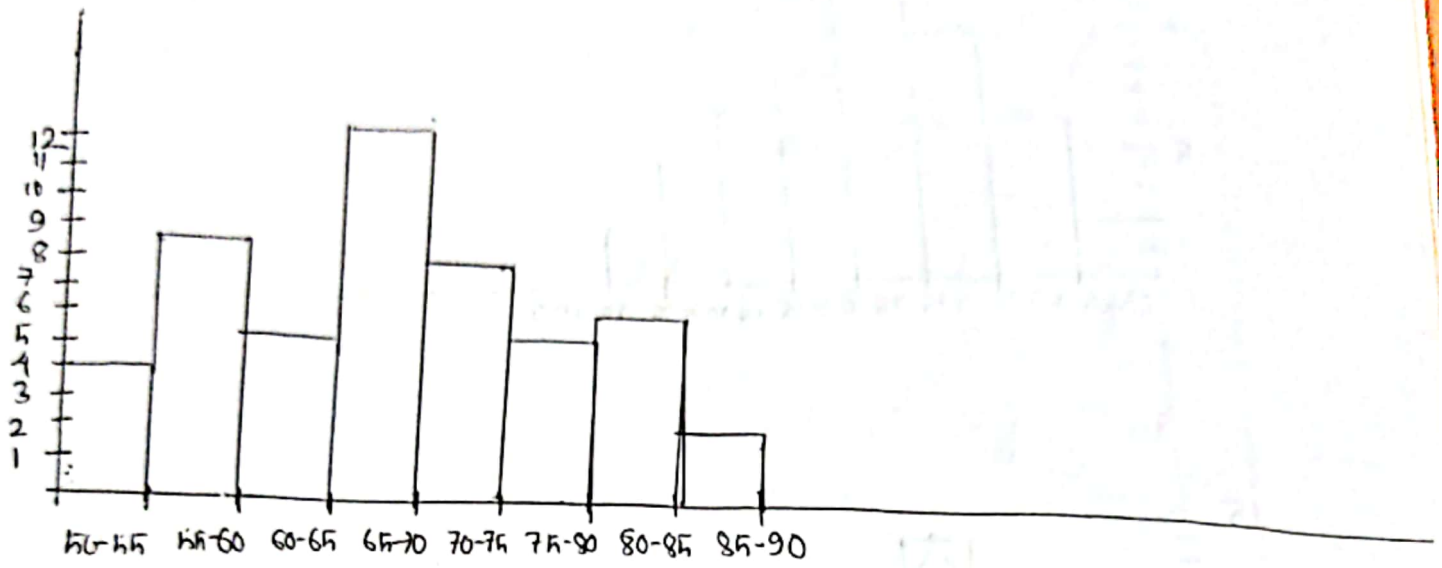
Bar Diagram



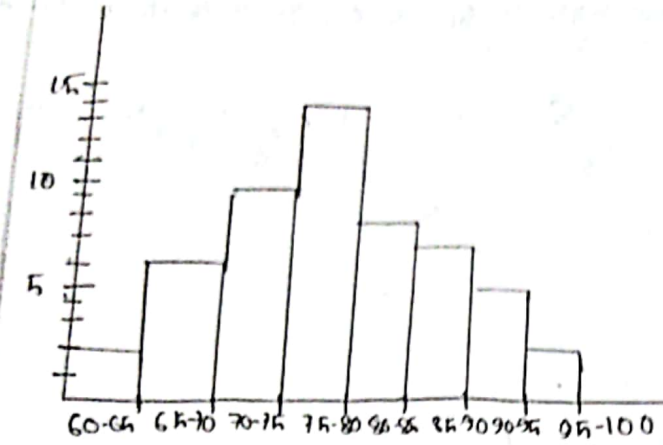
Pie Diagram

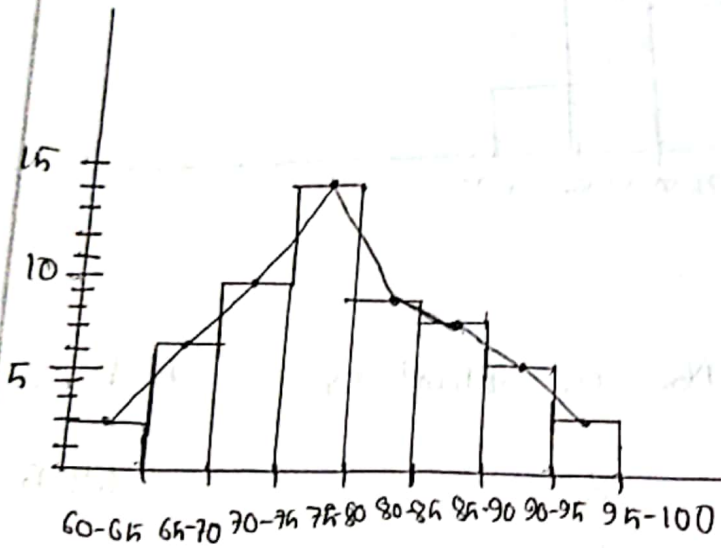
1.5. Weight (in kgs) : 50-55 55-60 60-65 65-70 70-75 75-80 80-85 85-90 Total

Number of persons: 1 8 5 12 7 5 6 3 50



1.6. Pulse/Min	No. of volunteers	Mid Value
60-65	2	62.5
65-70	7	67.5
70-75	11	72.5
75-80	15	77.5
80-85	10	82.5
85-90	9	87.5
90-95	6	92.5
95-100	3	97.5
Total	63	





b) $\frac{45}{63} \times 100 = 71.43\%$ Here, $2+7+11+15+10=45$

c) $\frac{54}{63} \times 100 = 85.71\%$ Here, $11+15+10+9+6+3=54$

d) $\frac{54}{63}$ ~~$\times 100 = 85.71\%$~~ 0.857 Here. $2+7+11+15+10+9=54$

7.7. Days (x) :	5	8	3	10	15
No. of mails received (y) :	54	65	42	107	89