

ASSIGNMENT # 1

# Probability and Statistics

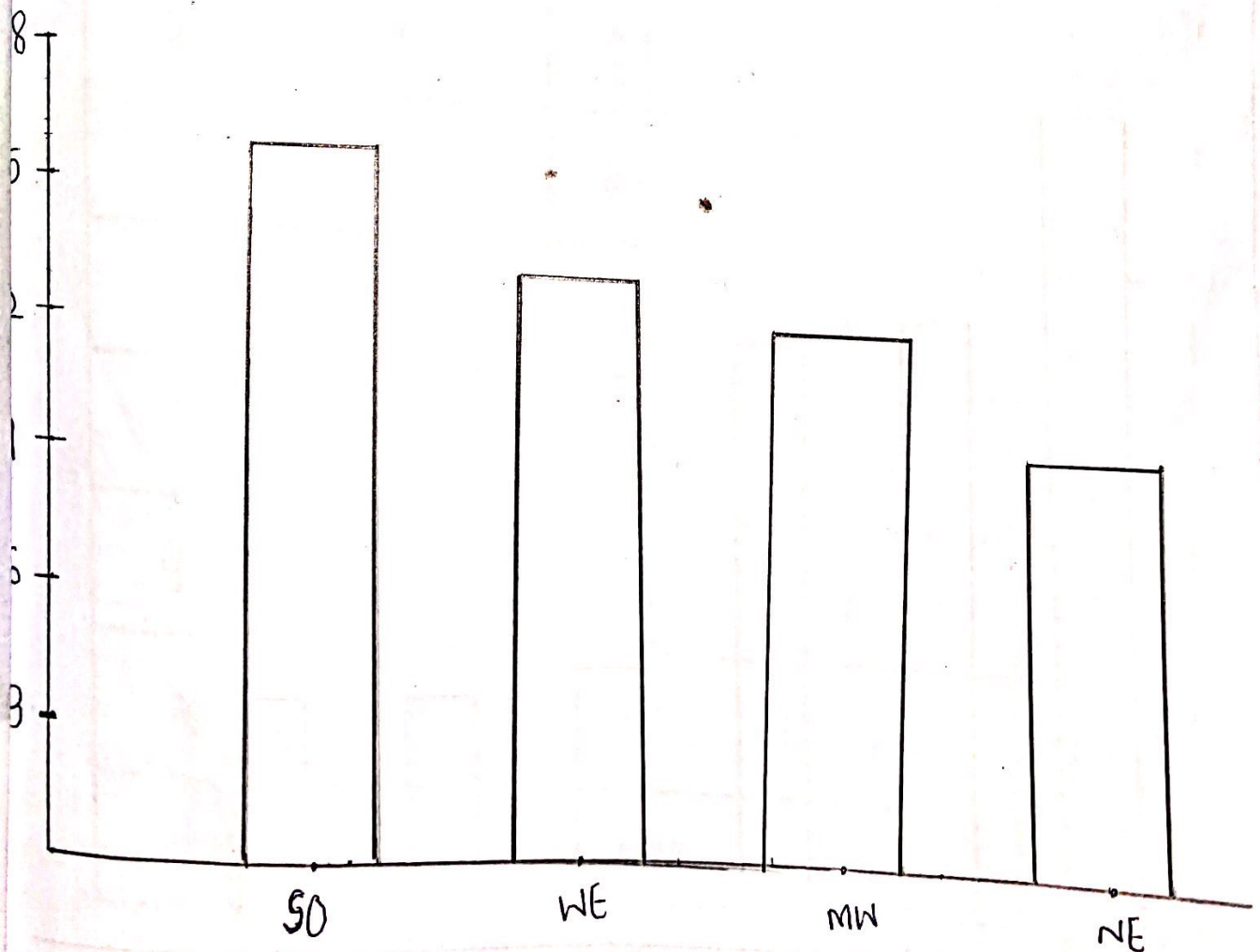
Roll No: 19k - 1048

SE - A



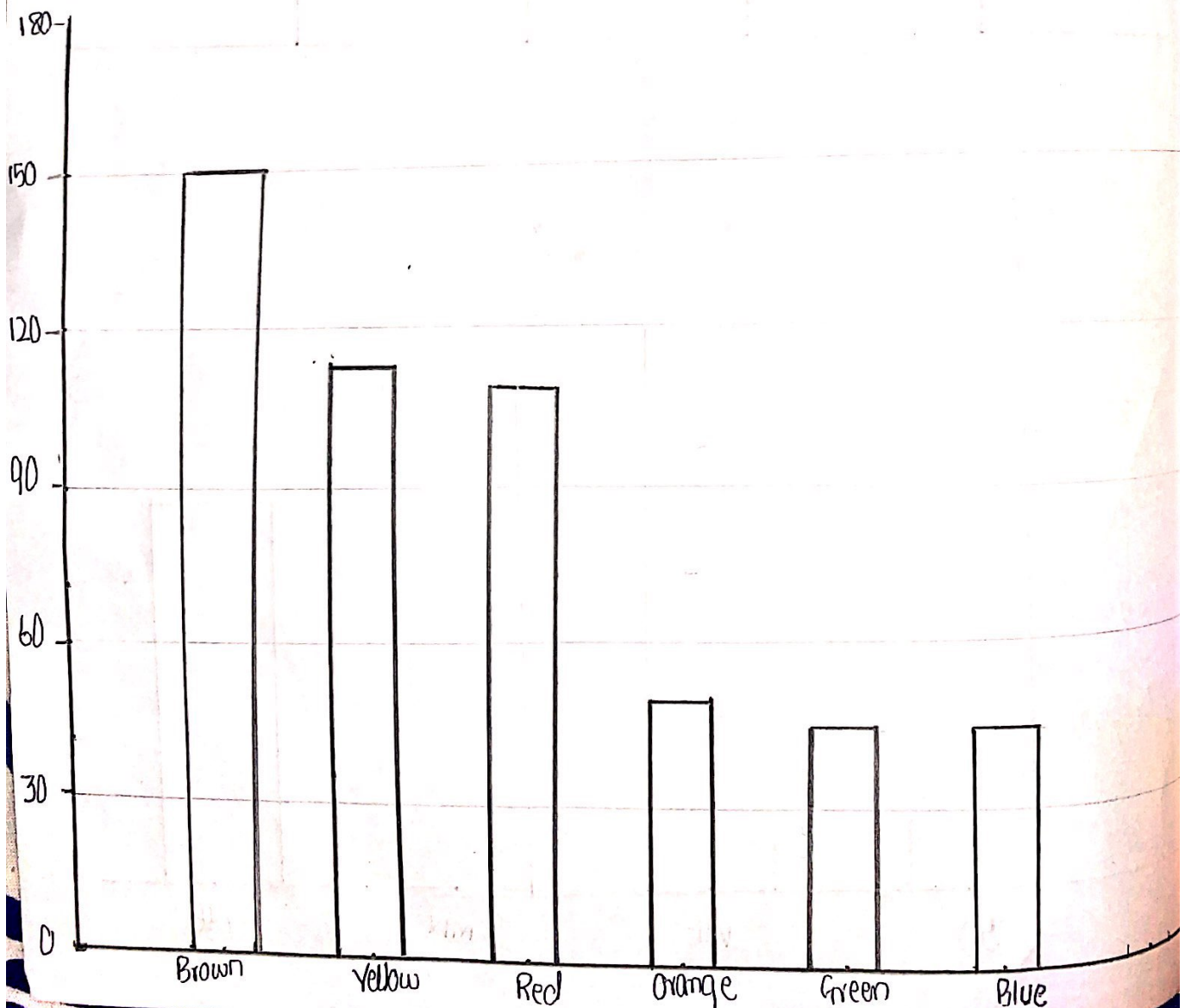
# Question no 1 (First Data)

Data values	Frequency	Relative Frequency	Percentage	Cumulative Frequency
SO	16	0.32	32%	16
WE	13	0.26	26%	29
MW	12	0.24	24%	41
NE	9	0.18	18%	50
Total	50	1.00	100%	



# Question no 1 (Second Data)

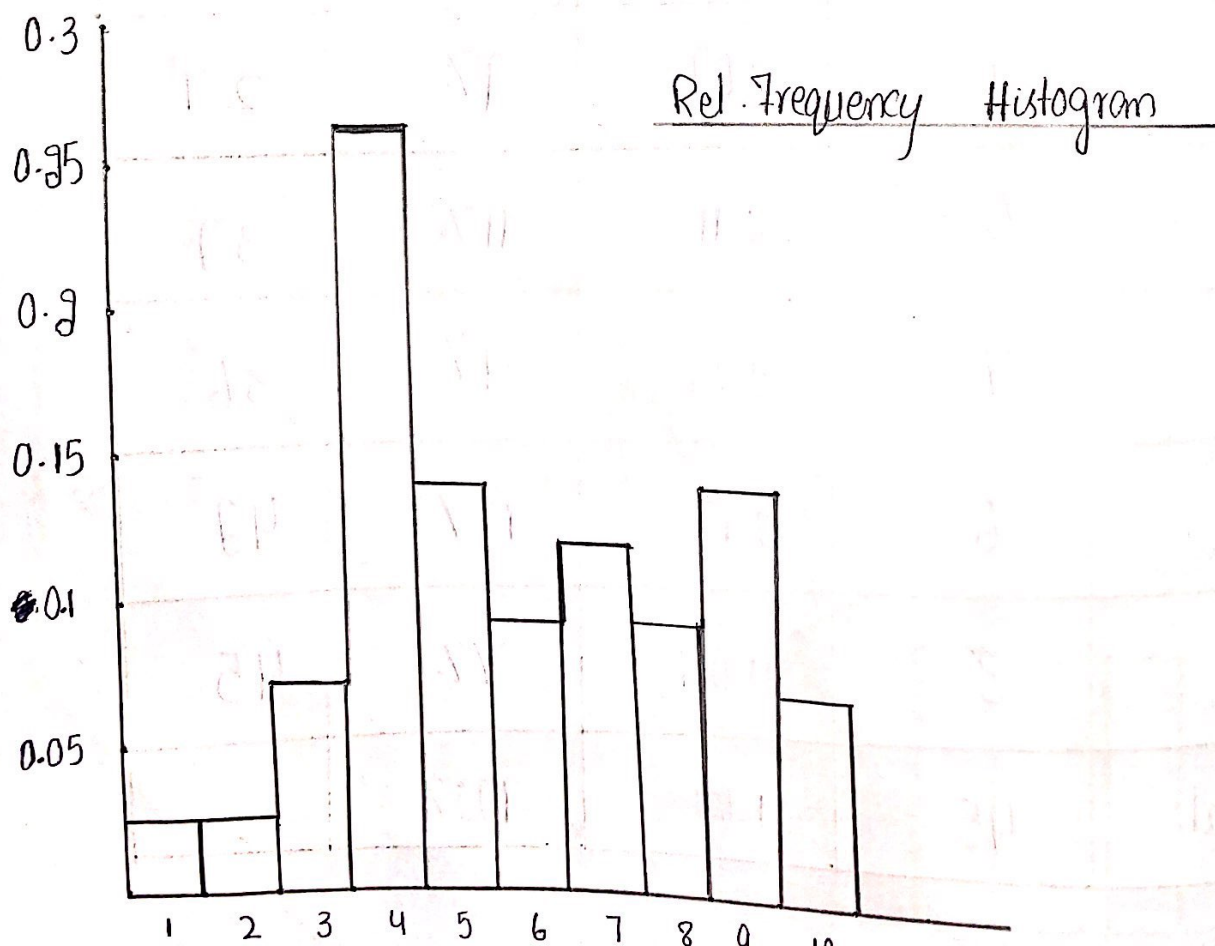
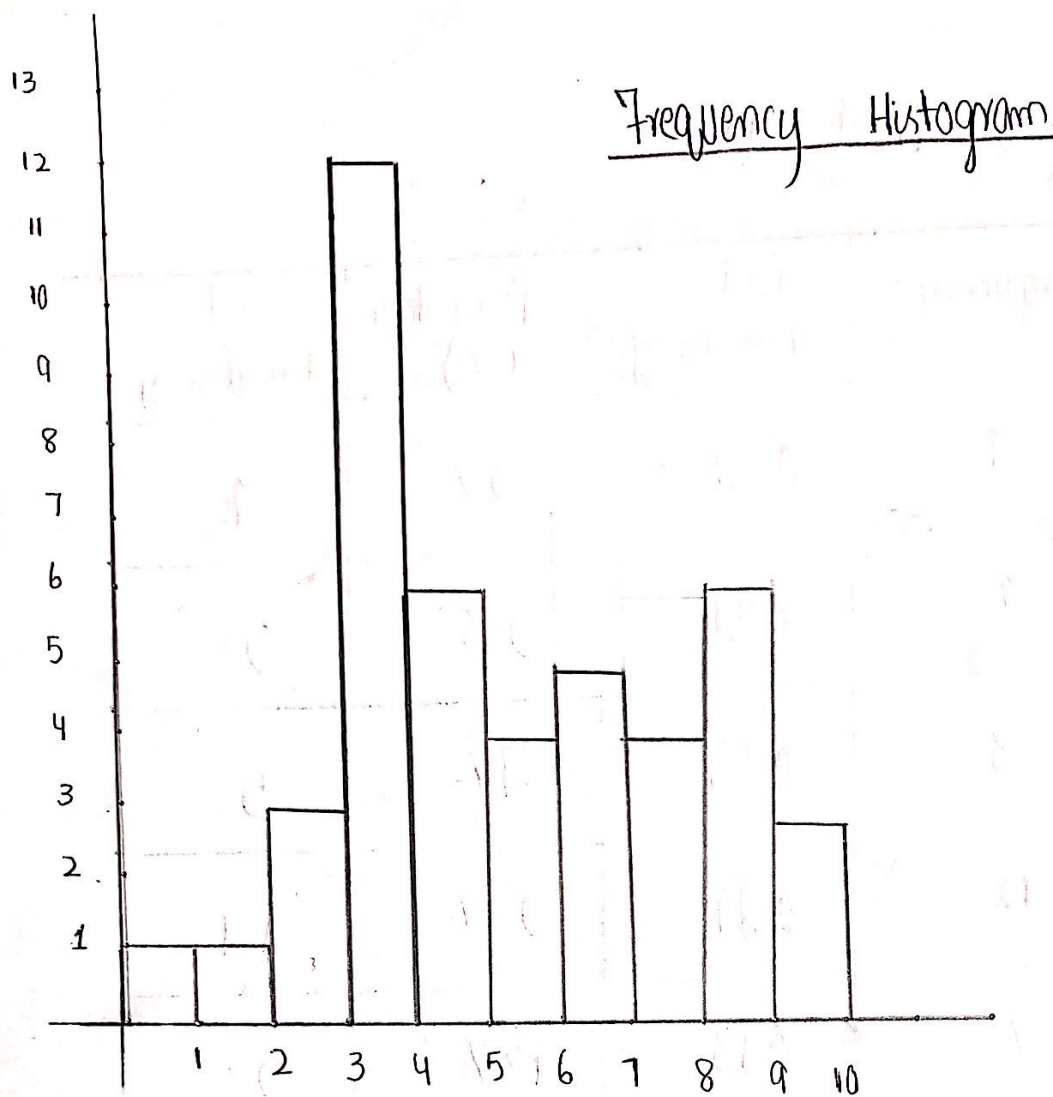
Data Values	Frequency	Rel. Frequency	Perc (%)	Cumu. Freq.
Brown	152	0.30	30%	152
Yellow	114	0.22	22%	266
Red	106	0.21	21%	372
Orange	51	0.10	10%	423
Green	43	0.08	8%	466
Blue	43	0.08	8%	509
Total	509	1.00	100%	



## Question 9: (First Data)

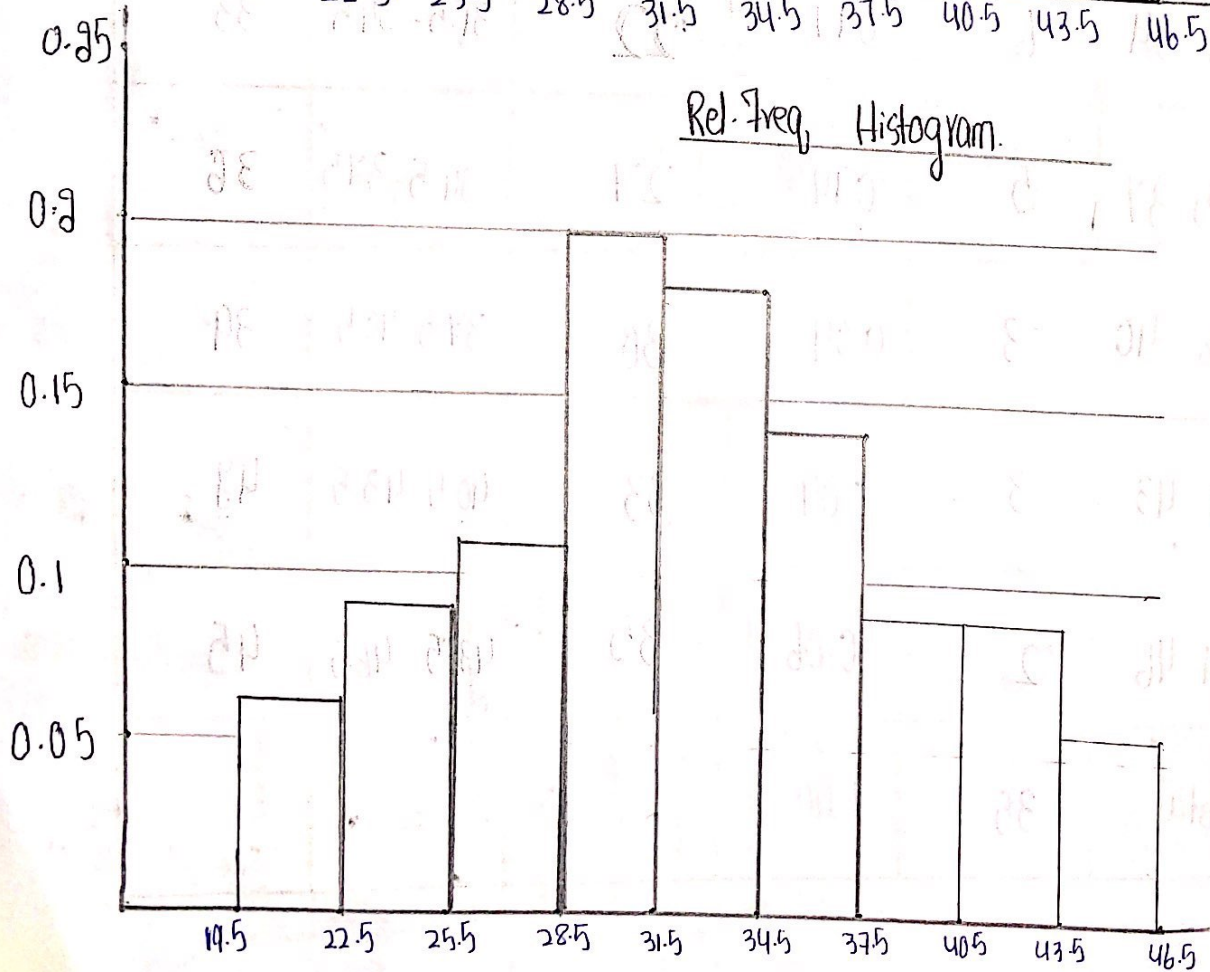
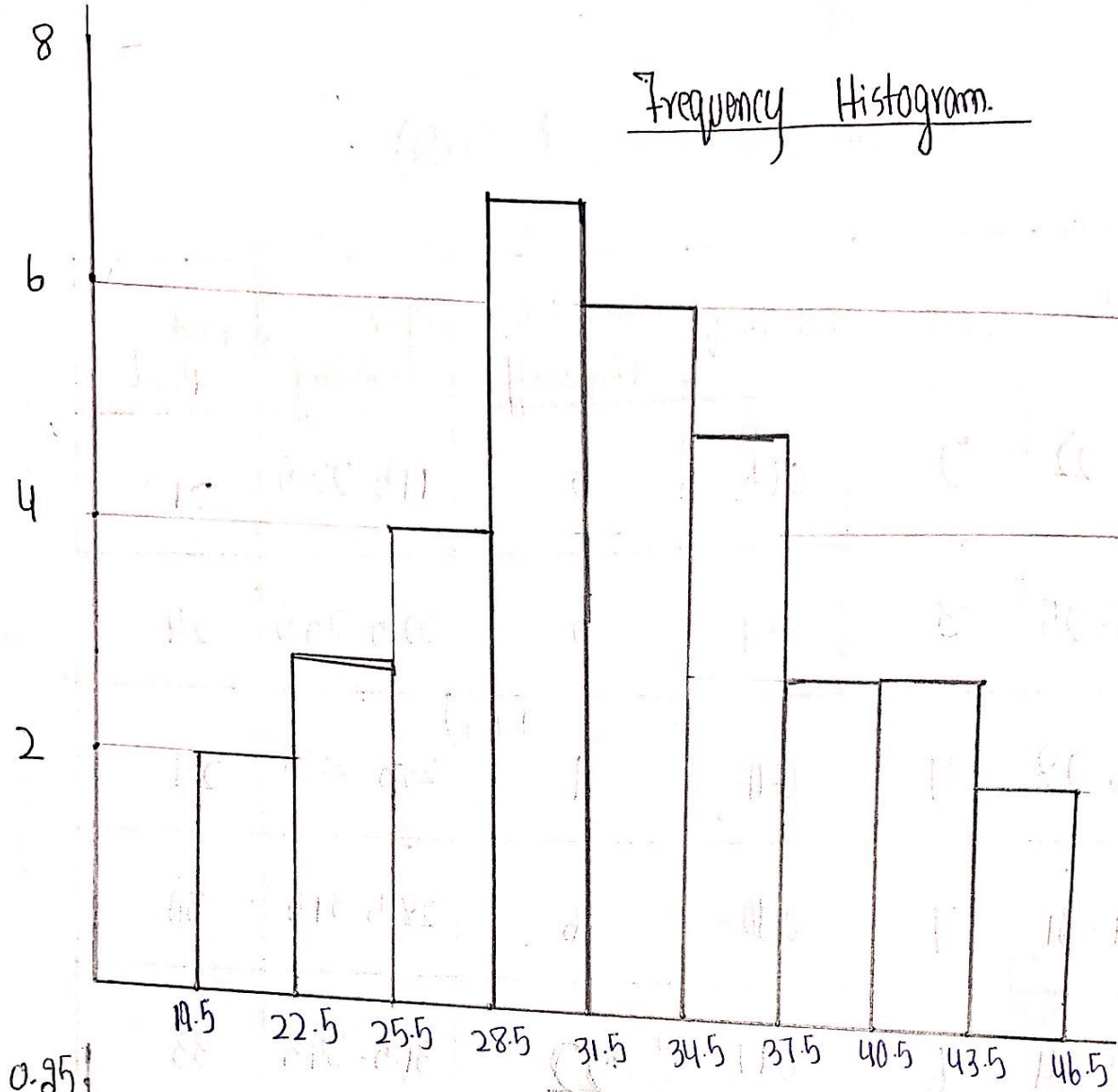
Data values	Frequency	Rel. Frequency	Percentage (%)	Cumulative Frequency
1	1	0.02	2%	1
2	1	0.02	2%	2
3	3	0.07	7%	5
4	12	0.27	27%	17
5	6	0.13	13%	23
6	4	0.09	9%	27
7	5	0.11	11%	32
8	4	0.09	9%	36
9	6	0.13	13%	42
10	3	0.07	7%	45
Total	45	1.00	100%	



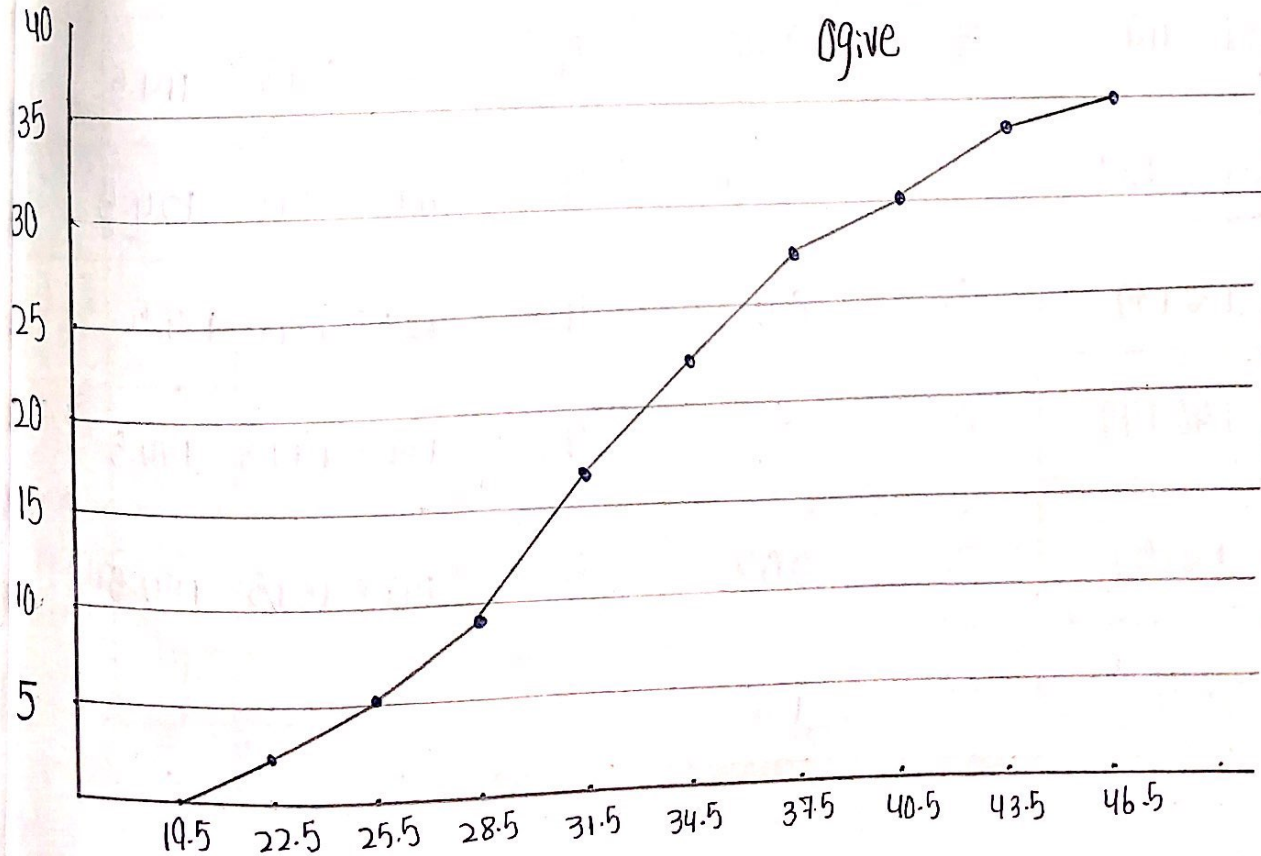
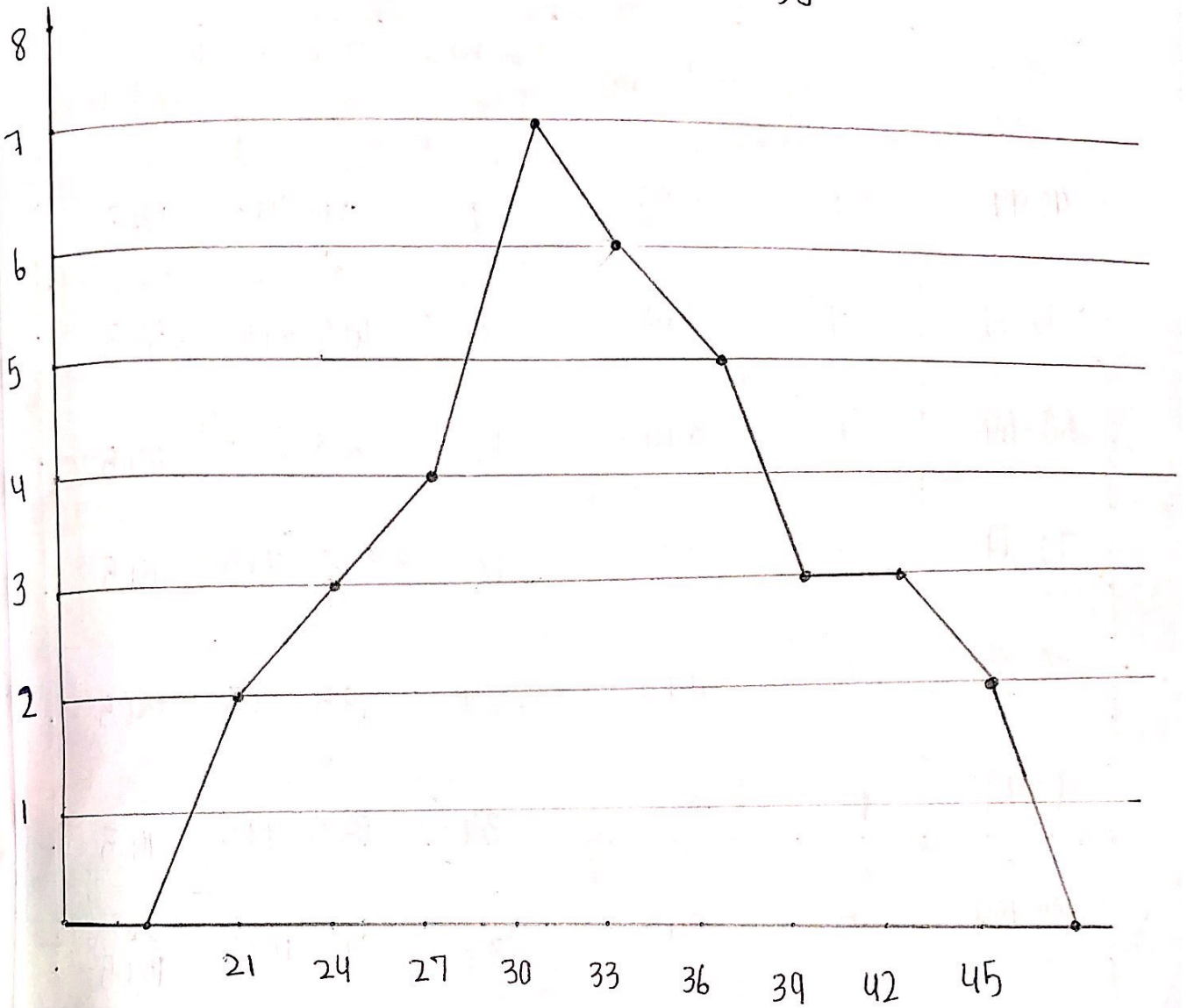


# Question 2 (Second Data)

Class	Freq.	Rel. Freq.	Cumulative Frequency	Class boundary	Mid Point
20-22	2	0.06	2	19.5-22.5	21
23-25	3	0.09	5	22.5-25.5	24
26-28	4	0.11	9	25.5-28.5	27
29-31	7	0.20	16	28.5-31.5	30
32-34	6	0.17	22	31.5-34.5	33
35-37	5	0.14	27	34.5-37.5	36
38-40	3	0.09	30	37.5-40.5	39
41-43	3	0.09	33	40.5-43.5	42
44-46	2	0.06	35	43.5-46.5	45
Total	35	1.00			







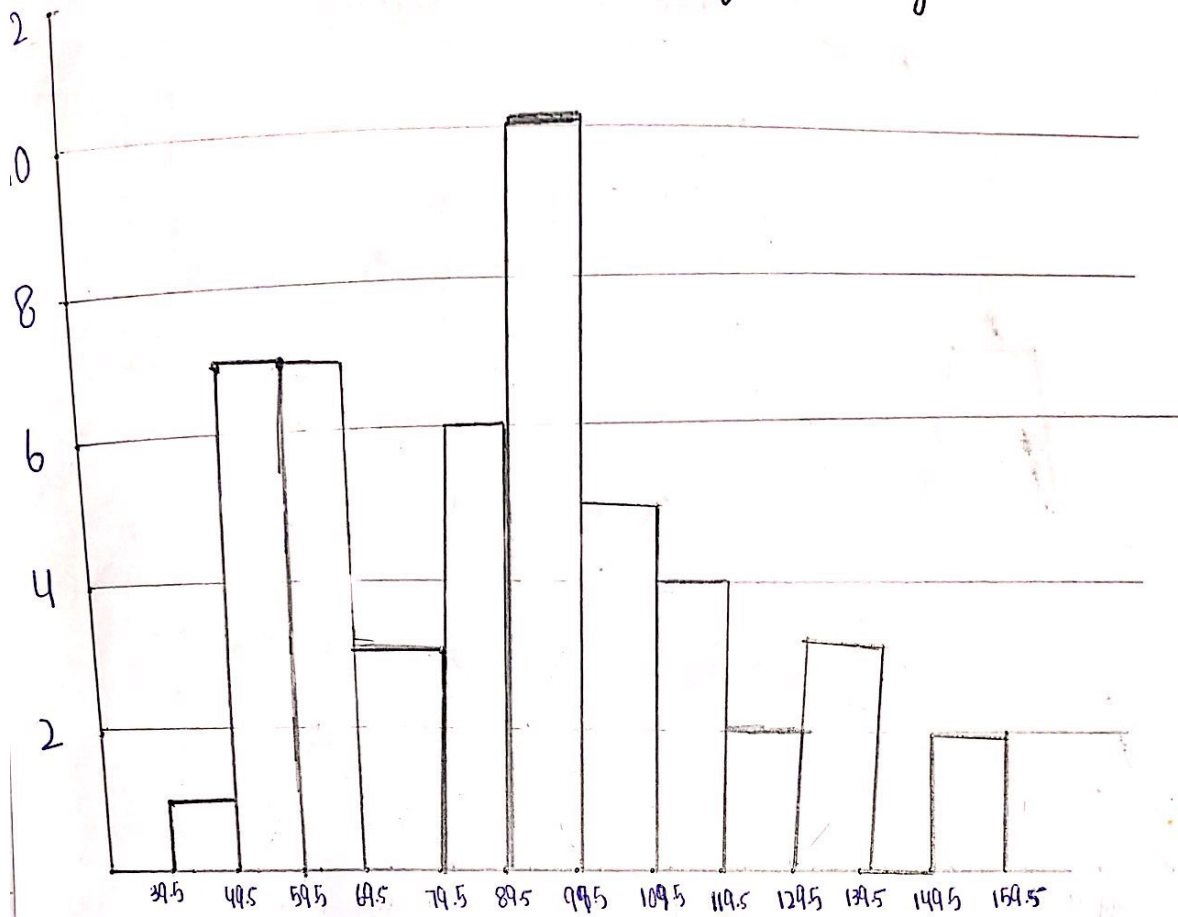


Question no: 9 (Third data)

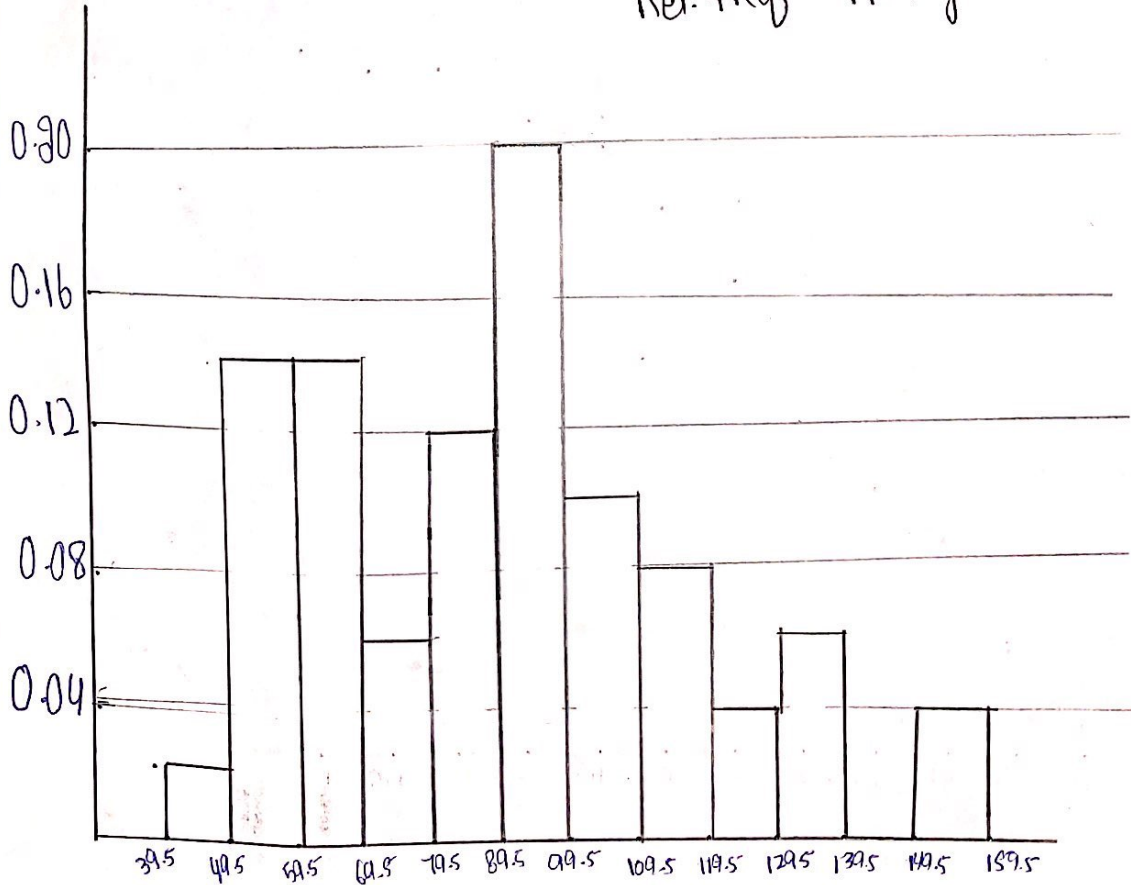
Data Values	Frequency	Rel. Freq	Cumulative Frequency	Class Boundary	Mid Point
40-49	1	0.02	1	39.5-49.5	44.5
50-59	7	0.14	8	49.5-59.5	54.5
60-69	7	0.14	15	59.5-69.5	64.5
70-79	3	0.06	18	69.5-79.5	74.5
80-89	6	0.12	24	79.5-89.5	84.5
90-99	10	0.20	34	89.5-99.5	94.5
100-109	5	0.10	39	99.5-109.5	104.5
110-119	4	0.08	43	109.5-119.5	114.5
120-129	2	0.04	45	119.5-129.5	124.5
130-139	3	0.06	48	129.5-139.5	134.5
140-149	0	0.00	48	139.5-149.5	144.5
150-159	2	0.04	50	149.5-159.5	154.5
Total	50	1.00			

# Freq Histogram

9

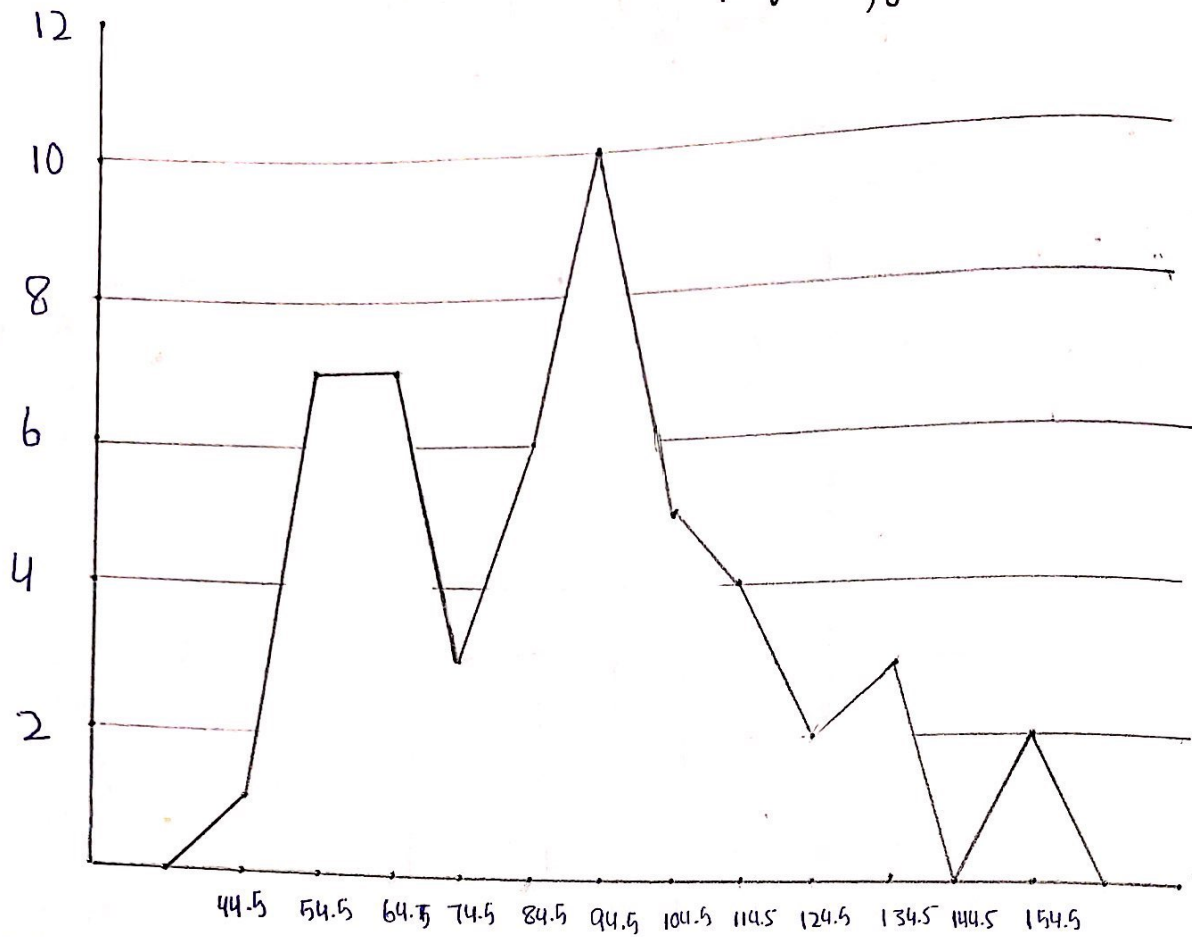


# Rel. Freq Histogram.

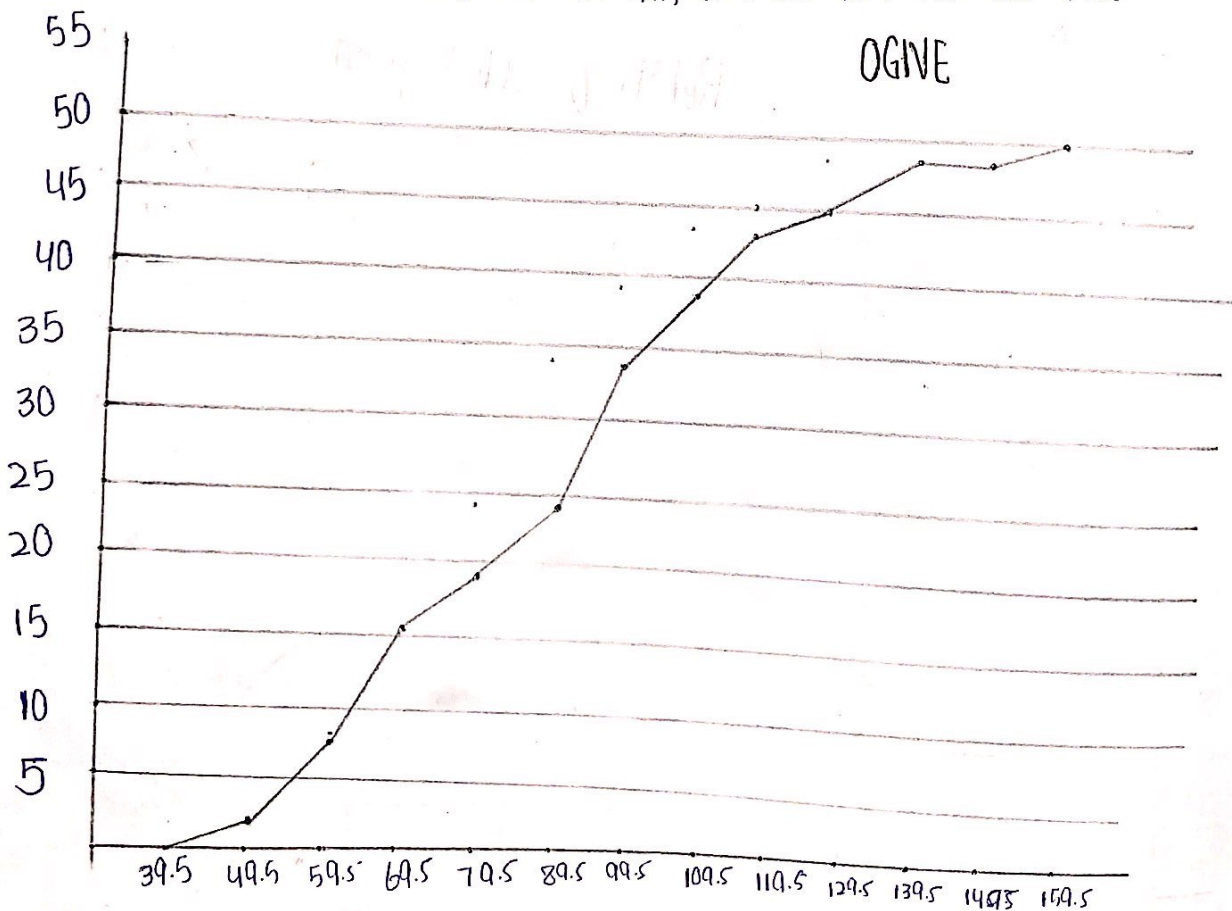




7req Polygon



OGIVE



### Question no 3 (First Data)

②

19		9																	
20		0	2	3	7	8	8	9											
21		0	0	0	0	2	3	4	5	7	8	8							
22		1																	

### Question no 3 (Second Data)

3		6	8	9															
4		7																	
5		0	1	1	3	5	5	6	7										
6		0	2	3	4	4	5	6	7	8	9								
7		0	0	0	1	5	8	9											
8		0	1	3	5	6	7	9											
9		5	8	9	9														