Group Frequency Tables

1) The table below shows the customer waiting time at bank each morning over a 10-week period

Waiting Time	Class Centre	Frequency	Cumulative Frequency
0 – 1		1	
1 – 2		4	
2 – 3		10	
3 – 4		13	
4 – 5		11	
5 – 6		15	
6 – 7		12	
7 – 8		11	
8 – 9		9	
9 – 10		3	

i) Range =

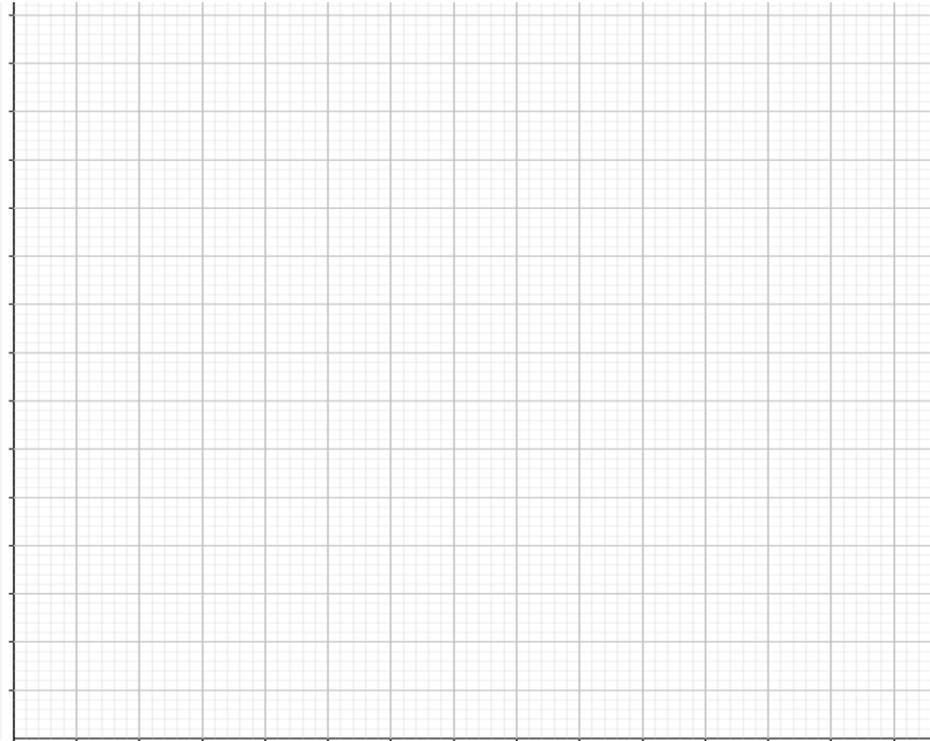ii) Mean =

iii) Median =

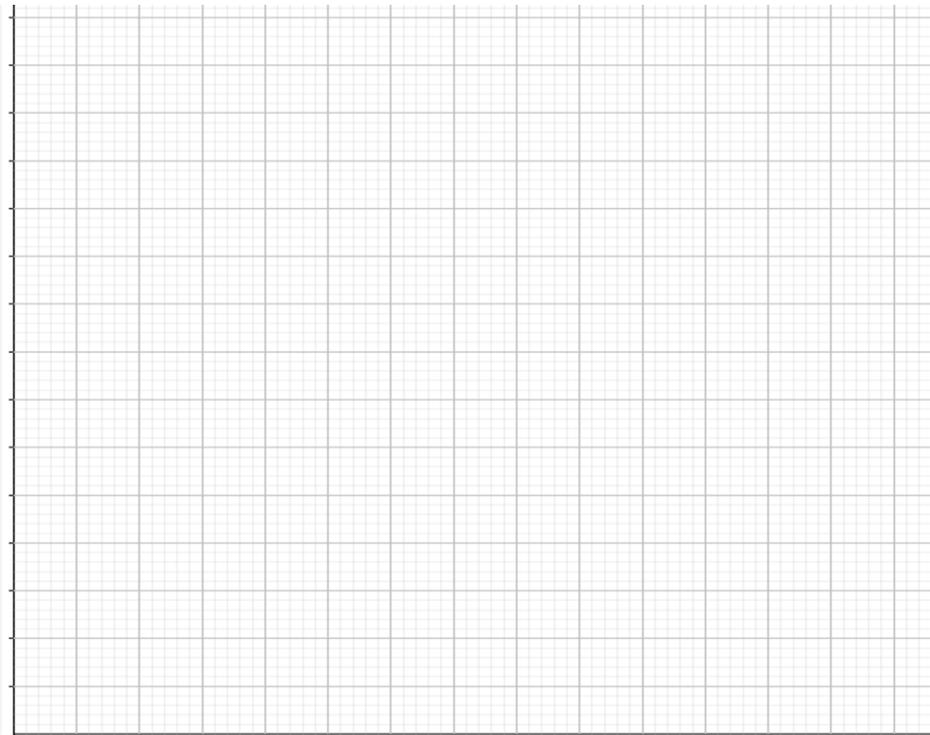iv) Mode =

v) Q1 =

vi) Q3 =

vii) Interquartile range =

viii) SD =

Frequency histogram and polygon

Cumulative frequency histogram and Ogive.

2) The table below shows the height of 100 small trees in a nursery.

Height	Class centre	Frequency	c.f.
90 – 95		3	
95 – 100		8	
100 – 105		9	
105 – 110		11	
110 – 115		13	
115 – 120		16	
120 – 125		18	
125 – 130		13	
130 – 135		7	
135 – 140		2	

i) Range =

ii) Mean =

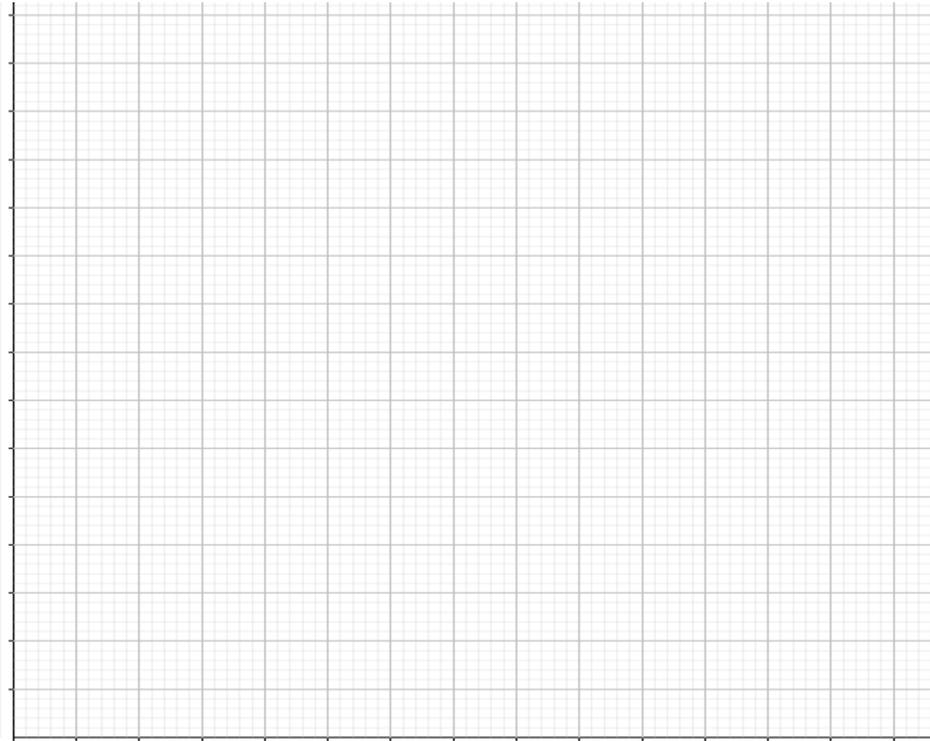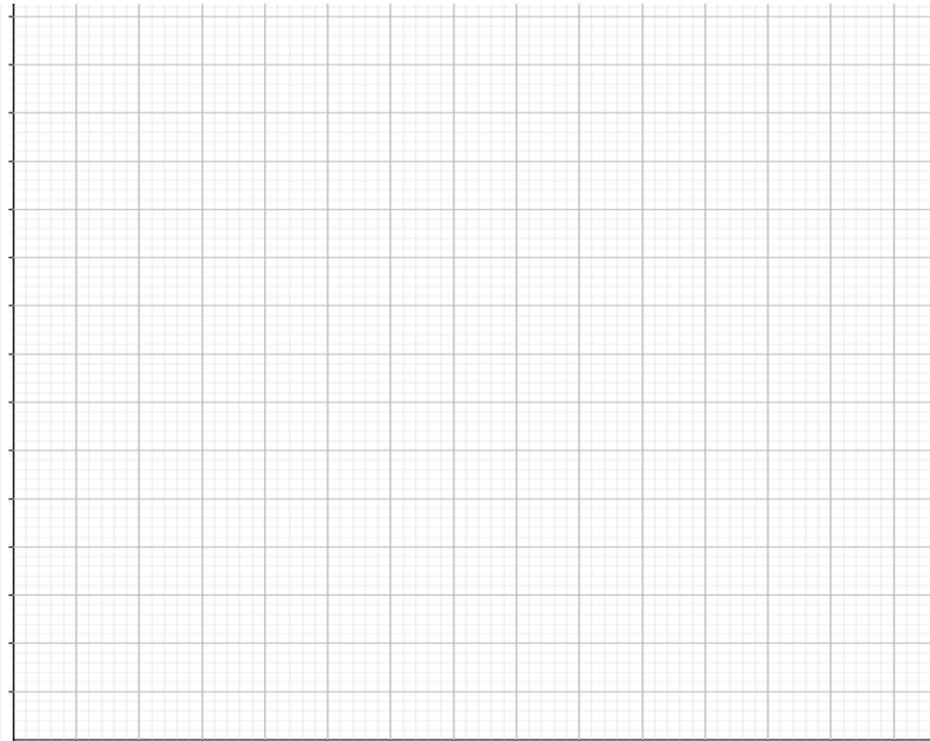iii) Median =

iv) Mode =

v) Q1 =

vi) Q3 =

vii) Interquartile range =

viii) SD =

Frequency histogram and polygon

Cumulative frequency histogram and Ogive

3) A survey is conducted to look into the amount of money the average customer spends at the local newsagent. This was done with a sample of 100 people. The information was then grouped into the following intervals.

Amount Spent	Class centre	Frequency	c.f.
5 – 10		3	
10 – 15		5	
15 – 20		9	
20 – 25		13	
25 – 30		16	
30 – 35		18	
35 – 40		14	
40 – 45		11	
45 – 50		5	
50 – 55		3	
55 – 60		3	

i) Range =

ii) Mean =

iii) Median =

iv) Mode =

v) Q1 =

vi) Q3 =

vii) Interquartile range =

viii) SD =

Frequency histogram and polygon

Cumulative frequency histogram and Ogive

4) The percentage results in mathematics for 60 students in an examination are given below:

85	86	72	65	94	50	100	78	80	80
75	94	66	86	68	74	75	56	77	61
98	95	84	77	81	64	83	72	65	76
71	83	88	65	74	82	84	55	83	79
60	87	89	82	82	64	78	83	76	73
83	57	98	83	66	77	55	91	100	50

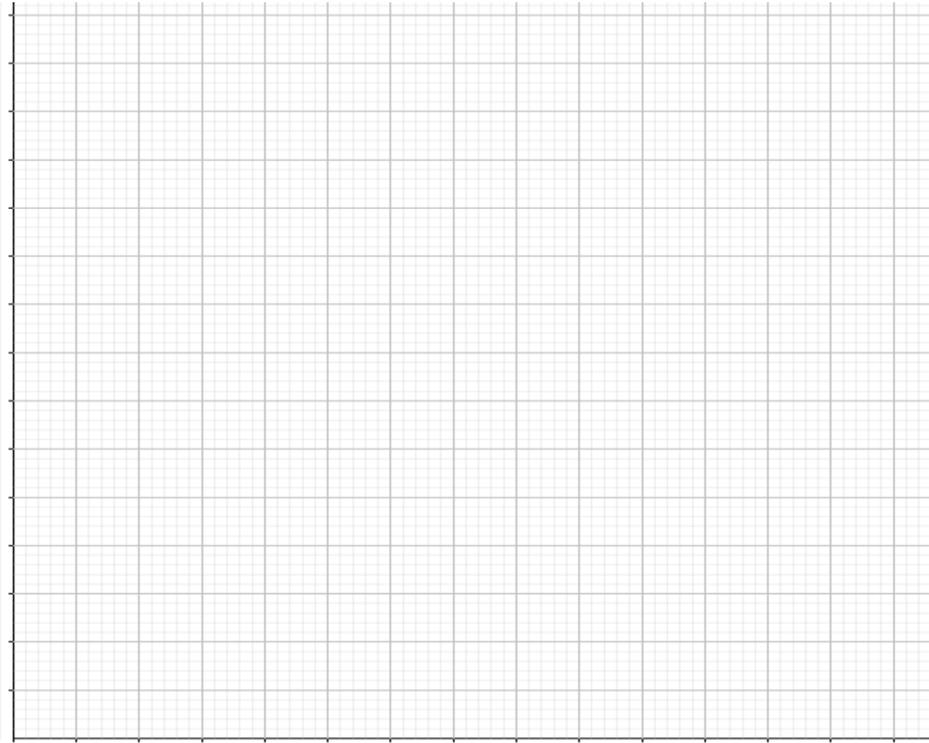| Marks	Class centre	Frequency	c.f.

i) Range =

ii) Mean =

iii) Median =

iv) Mode =
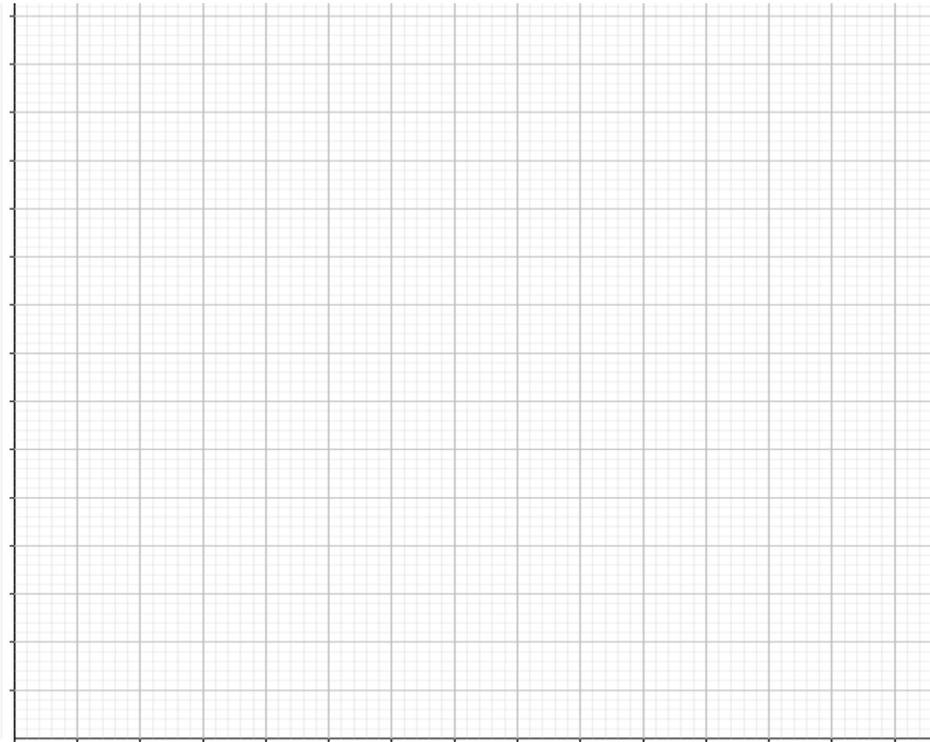
v) Q1 =

vi) Q3 =

vii) Interquartile range =

viii) SD =

Frequency histogram and polygon

Cumulative frequency histogram and Ogive