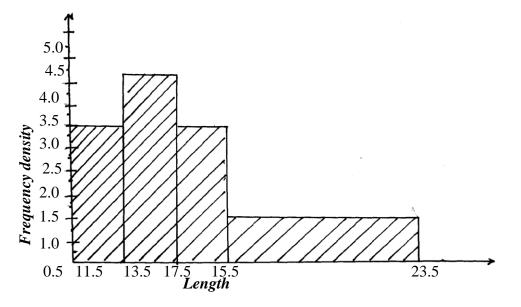
1. Representation of data

1. The height of 36 students in a class was recorded to the nearest centimeters as follows.

148	159	163	158	166	155	155	179	158	155	171	172	156	161
160	165	157	165	175	173	172	178	159	168	160	167	147	168
172	157	165	154	170	157	162	173						

(a) Make a grouped table with 145.5 as lower class limit and class width of 5. (4mks)

2. Below is a histogram, draw.



Use the histogram above to complete the frequency table below:

Length	Frequency	
11.5 ≤ x ≤13.5		
13.5 ≤ x ≤15.5		
$15.5 \le x \le 17.5$		
$17.5 \le x \le 23.5$		

3. Wambui spent her salary as follows:

Food	40%
Transport	10%
Education	20%
Clothing	20%
Rent	10%

Draw a pie chart to represent the above information

4. The examination marks in a mathematics test for 60 students were as follows;-

60	54	34	83	52	74	61	27	65	22
70	71	47	60	63	59	58	46	39	35
69	42	53	74	92	27	39	41	49	54
25	51	71	59	68	73	90	88	93	85
46	82	58	85	61	69	24	40	88	34
30	26	17	15	80	90	65	55	69	89

Class	Tally	Frequency	Upper class limit
10-29			
30-39			
40-69			
70-74			
75-89			
90-99			

From the table;

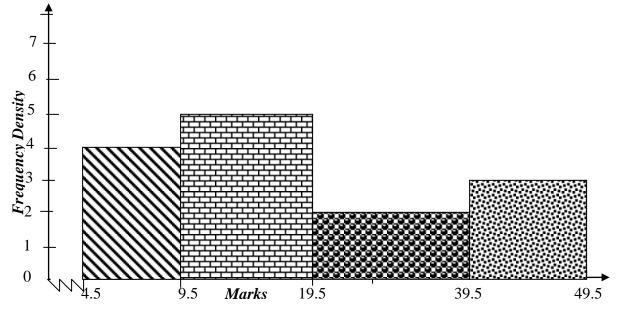
(a) State the modal class

(b) On the grid provided , draw a histogram to represent the above information

5. The marks scored by 200 from 4 students of a school were recorded as in the table below.

Marks	41 – 50	51 - 55	56 - 65	66 – 70	71 – 85
Frequency	21	62	55	50	12

- (a) On the graph paper provided, draw a histogram to represent this information.
- (b) On the same diagram, construct a frequency polygon.
- (c) Use your histogram to estimate the modal mark.
- 6. The diagram below shows a histogram representing the marks obtained in a certain test:-



(a) If the frequency of the first class is 20, prepare a frequency distribution table for the data (b) State the model class

- (b) State the modal class(c) Estimate: (i)
 - : (i) The mean mark
 - (ii) The median mark
- 7. The data below shows the number of sessions different subjects are taught in a week.

Draw a pie chart to show the data:

Subject	Eng	Maths	Chemistry	C.R.E
No. of sessions	8	7	4	3

8. The height of 50 athletes in Moi University team were shown below:

Height (cm)	150-159	160-169	170-179	180-189	190-199	200-209
Frequency	2	9	12	16	7	4

i) State the modal class

ii) Calculate the median height of the athletes

9.	The table below shows the length of 40 mango tree leaves;

Length (mm)	Frequency	Cumulative frequency
118-126	3	3
127-135	4	7
136-144	10	17
145-153	12	29
154-162	5	34
163-171	4	38
172-180	2	40

(a) Determine the;

(i) Modal class

(ii) Median class(b) Calculate;

(i) the mean of the leaves

(ii) the median of the leaves