

(1) (a) Represent the table below as a grouped frequency distribution table. Choose four suitable class intervals.

3	5	12	11	11	2	16	11	19	7
11	15	11	15	17	1	13	9		

- (b) Determine the data’s range in (a). _____
- (c) Determine the mode of the data in (a). _____
- (d) Determine the modal class interval of the data in (a). _____
- (e) Does the mode lie in the modal class interval? _____
- (f) Determine the median of the data in (a).

- (g) Determine the mean of the data in (a).
- _____
- _____

- (h) Which of the central tendencies is the best indication of the data in the table?
Motive your answer.
- _____
- _____
- _____

(2) The table shows the ages of all the members of Green Trees Golf Club whose birthdays are in January.

12	34	24	41	50	56	32	21	19	27	39	45
22	12	35	71	64	23	56	14	47	25	27	31
40	19	33	38	43	30	61	38	24	32	39	47
16	35	23	45	38	26	70	28	33	38	23	29
36	41	12	38	35	51	43					

- (a) Calculate the range of the data in the table. _____
- (b) Represent data above as a grouped frequency distribution table. Choose suitable class intervals. Clearly indicate the class boundaries and class mid-points.

- (c) Determine the data’s modal class interval. _____
- (d) Determine the estimated mean of the data in the grouped frequency distribution table in (b). Show all calculations.

- (e) Is the modal class interval or estimated mean the best to use? Motivate your answer.

- (3) Study the grouped frequency distribution table below and answer the questions below. The table shows a summary of grade 10C's Mathematics marks.

The class intervals are in terms of percentage.

Class interval	Class boundaries	Class mid-point	F	C _F	%
0 - 9			1		
10 - 19			0		
20 - 29			1		
30 - 39			3		
40 - 49			5		
50 - 59			6		
60 - 69			7		
70 - 79			5		
80 - 89			5		
90 - 99			2		
			N =		

- (a) Complete the table. The percentage column has to be rounded off to the closest integer. Show all calculations.

- (b) Calculate the estimated class average for grade 10C's Mathematics test.

(c) Determine how many learners passed, if the passing rate is 40%.

(d) Determine the modal class interval.

(e) Discuss the measurements for central tendencies.
