Q1

Twenty children were asked to estimate the height of a particular tree. Their estimates, in metres, were as follows.

4.1	4.2	4.4	4.5	4.6	4.8	5.0	5.2	5.3	5.4
5.5	5.8	6.0	6.2	6.3	6.4	6.6	6.8	6.9	19.4

(a) Find the mean of the estimated heights.

(b) Find the median of the estimated heights.

Q2

Find the arithmetic mean, geometric mean and harmonic mean of the following sets of data

8 13 11 17 12 10 15

Show also that A.M > G.M> H.M

Q3

Find the mean, mode and median of the following sets of data

(i) 11 10 9 7 8 11 15 12 11 25 16

(ii)

X	7	9	10	12	16	18	18	21
F	3	5	9	8	5	3	4	2

Q4

C.I.	0-10	10-20	20-30	30-40	40-50
f	7	8	12	9	3

(i) For the above set of data identify the modal class

(ii) Find the mean of the above set of data

Q5

At a summer camp an arithmetic test is taken by 250 children. The times taken, to the nearest minute, to complete the test were recorded. The results are summarised in the table.

Time taken, in minutes	1 – 30	31 – 45	46 – 65	66 – 75	76 – 100
Frequency	21	30	68	86	45

(a) Draw a histogram to represent this information.

(b) State which class interval contains the median.

(c) Given that an estimate of the mean time is 61.05 minutes, state what feature of the distribution accounts for the median and the mean being different. [1]