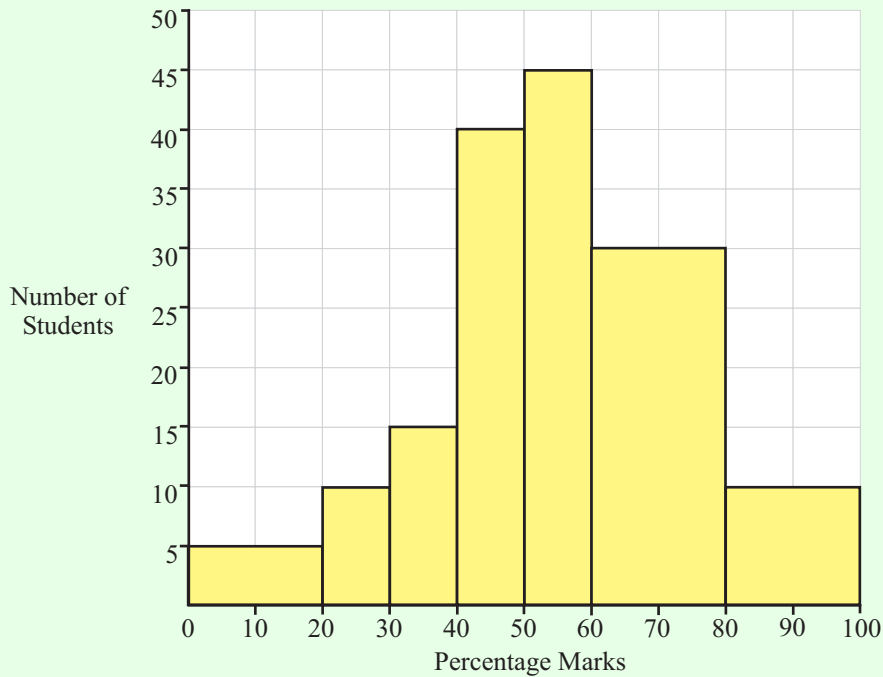


STATISTICS (Q 7, PAPER 2)

1998

7 (a) Find the mean and the median of the following array of numbers:
2, 5, 7, 11, 15, 3, 6

(b) The distribution of percentage marks awarded to a group of 200 Leaving Certificate students in a particular subject is shown in the histogram below.



(i) If 45 students obtained between 50% and 60%, copy and complete the frequency table below.

Marks (%)	0 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 80	80 - 100
Frequency					45		

(ii) What is the greatest possible number of students who could have obtained a grade C or better (i.e. mark ≥ 55)?

(c) The following table shows the sizes, in hectares, of 20 farms in a particular area:

No. of hectares	15 - 45	45 - 75	75 - 105	105 - 195
Number of farms	1	4	8	7

By taking the data at mid-interval values, calculate

(i) the mean number of hectares per farm

(ii) the standard deviation, correct to the nearest hectare.

ANSWERS

7 (a) 7; 6

(b) (i)

Marks (%)	0 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 80	80 - 100
Frequency	10	10	15	40	45	60	20

(ii) 125

(c) (i) 102

(ii) 38