

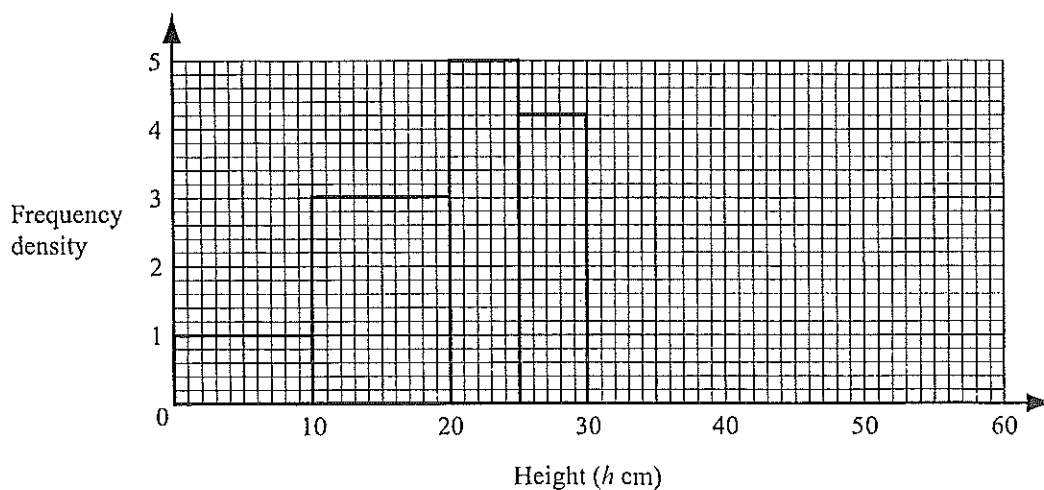
IGCSE – Estimated Mean and Histograms – 1

Oct 04 Paper 4

- 6 (a) Students are given marks 0, 1, 2, 3 or 4 for a piece of work.
The table shows the number of students getting each mark.

Mark	0	1	2	3	4
Frequency	3	10	12	9	x

- (i) The mean mark is 2.125.
Find the value of x . [4]
- (ii) Write down the lower quartile mark. [1]
- (b) The heights (h centimetres) of flowers in a shop are shown in the histogram below.
All the flowers are less than 60 cm high.
One bar has not been drawn on the histogram.



- (i) There are 25 flowers in the interval $20 < h \leq 25$.
How many flowers are there in the intervals
- (a) $25 < h \leq 30$, [1]
- (b) $10 < h \leq 20$? [1]
- (ii) There are 42 flowers in the interval $30 < h \leq 60$.
This can be shown by a single bar on the histogram.
Calculate the height of this bar. [2]
- (iii) Calculate an estimate of the mean height of the flowers. [3]