

1. Here is a set of data.

3 7 4 9 11 8 4 10

Work out the,

(i) Median

.....7.5.....

(ii) Mode

.....4.....

(iii) Range

.....8.....

(iv) Mean

.....7.....

(5 marks)

2. Here is some data.

84 72 54 62 70 81 84 78 56 70  
75 64 66 53 80 65 60 71 58 62

(a) Use this data to draw a stem and leaf diagram below.

5 | 3 4 6 8  
6 | 0 2 2 4 5 6  
7 | 0 0 1 2 5 8  
8 | 0 1 4 4

Key

6 | 2 = 62

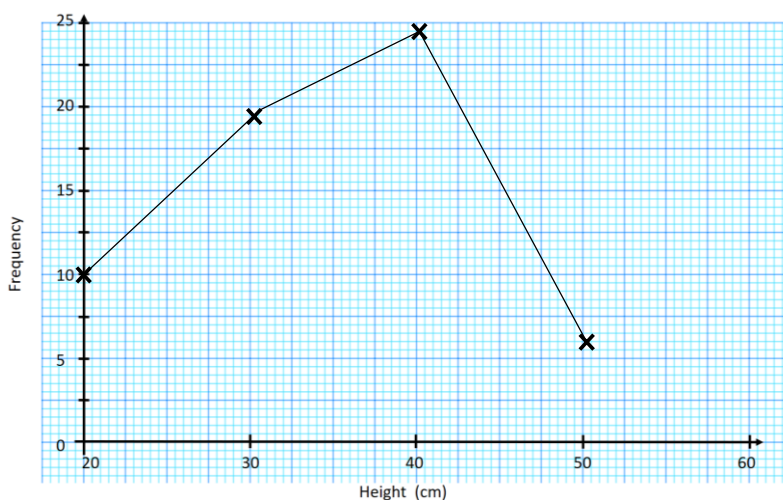
(b) Calculate the median.

.....68.....

(3 marks)

3. A frequency polygon has been drawn for the table below.

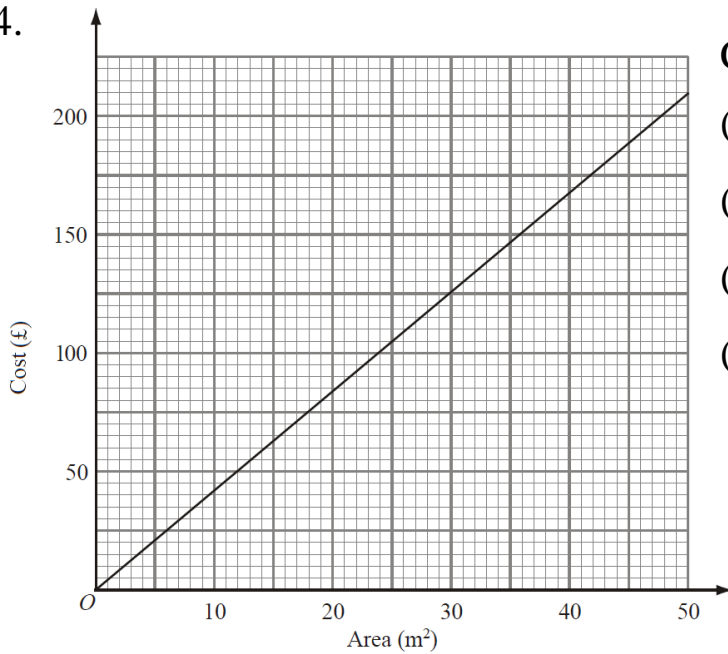
Height (cm)	Frequency
$20 < h \leq 30$	10
$30 < h \leq 40$	19
$40 < h \leq 50$	24
$50 < h \leq 60$	7



(a) What mistake is made.

.....They have plotted the lower bound instead of the midpoint.....  
(2 marks)

4.



Convert

(i) 30 m<sup>2</sup>

£125

(ii) £50

12 m<sup>2</sup>

(iii) 100 m<sup>2</sup>

£420

(iv) £300

72 m<sup>2</sup>

(4 marks)

5. The table show the time employees had for their lunch yesterday.

Time (minutes)	Frequency
$20 < t \leq 30$	9
$30 < t \leq 40$	26
$40 < t \leq 50$	20
$50 < t \leq 60$	16

(a) State the modal class interval.

$30 < t \leq 40$

(b) Find the group that contains the median.

$40 < t \leq 50$

(c) Estimate the mean.

41.1

(5 marks)

6. Sophie goes to university which is 35 km away.

The average speed limit on the motor way is 70mph.

How long should it take her to get there on the motorway.

$\frac{1}{2}$  an hour

(2 marks)

Score =