

1. Here is a set of data.

3	3	7	11
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Work out the what the cards have to be if there is:

- Median = 5
- Range = 8
- Mode = 3
- Mean = 6

(3 marks)

2. Here is some data.

8.4 6.2 5.3 7.5 8.2 7.2
6.5 5.0 8.8 7.2 6.5 6.4
5.4 6.4 7.2 6.6 7.4 6.2

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

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

Key

5 | 3 = 5.3

(b) Calculate the range

3.8

(c) Calculate the mode

7.2

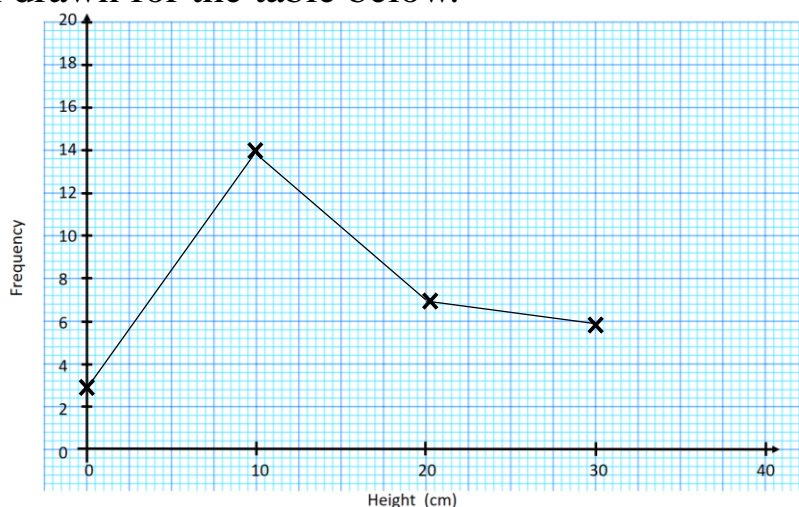
(c) Calculate the median

6.55

(5 marks)

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

Height (cm)	Frequency
$0 < h \leq 10$	3
$10 < h \leq 20$	14
$20 < h \leq 30$	7
$30 < h \leq 40$	6

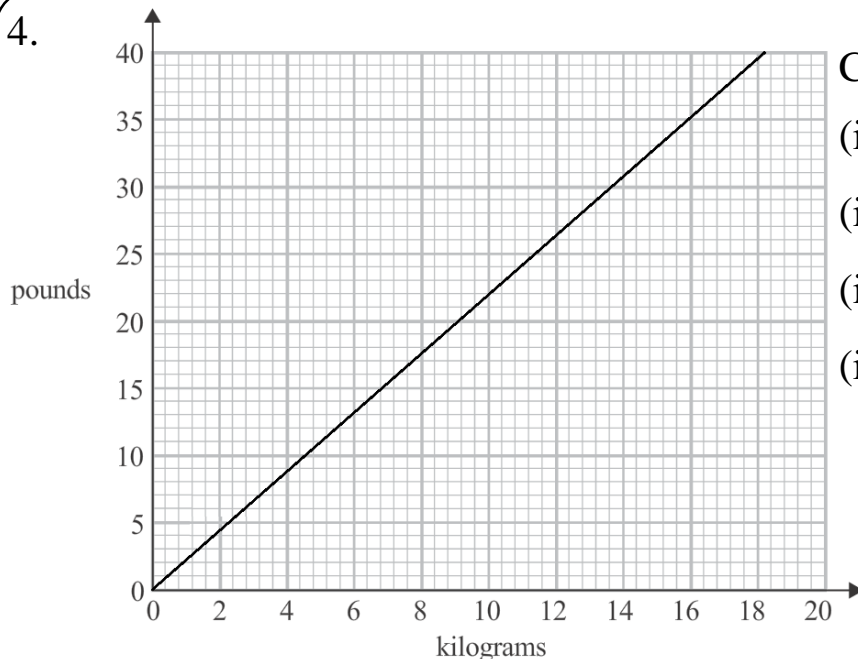


(a) What mistake is made.

They have plotted lower bound instead of the midpoint

(2 marks)

4.



Convert

(i) 16 kg

35 lbs

(ii) 20 lbs

9 kg

(iii) 60 kg

132 lbs

(iv) 350 lbs

160 kg

(4 marks)

5. The table show the height of a group of school students.

Height (cm)	Frequency
$130 < h \leq 140$	3
$140 < h \leq 150$	18
$150 < h \leq 160$	4
$160 < h \leq 170$	1

(a) State the modal class interval.

$140 < h \leq 150$

(b) Find the group that contains the median.

$140 < h \leq 150$

(c) Estimate the mean.

146.2

(5 marks)

6. Gabriel is going to the match, which is 30 miles away.

His average speed is 40 mph.

How long should it take him to get there?

45 mintes

(2 marks)

Score =