

1. Here is a set of data.

4 5 4 8 7 3 8 6

Work out the,

(i) Median

.....5.5.....

(ii) Mode

.....4 and 8.....

(iii) Range

.....5.....

(iv) Mean

.....5.625.....

(5 marks)

2. Here is some data.

103 124 116 108 120 124 119
130 126 118 120 115 102 109
108 123 127 109 122 118 136

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

10 | 2 3 8 8 9 9
11 | 5 6 8 8 9
12 | 0 0 2 3 4 4 6 7
13 | 0 6

Key

12 | 3 = 123

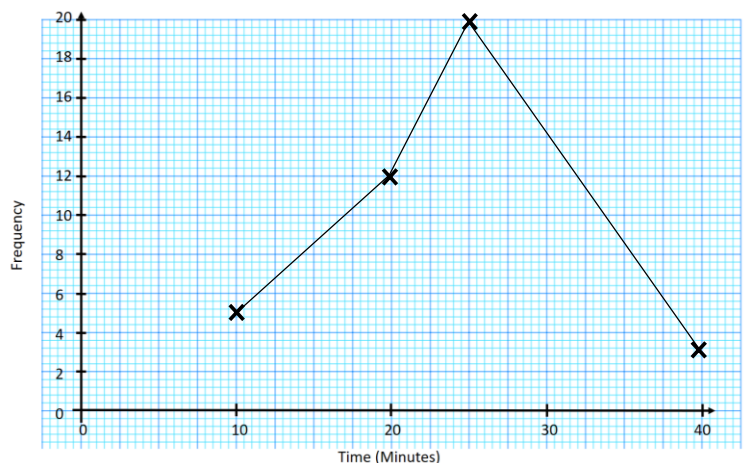
(b) Calculate the median.

.....119.....

(3 marks)

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

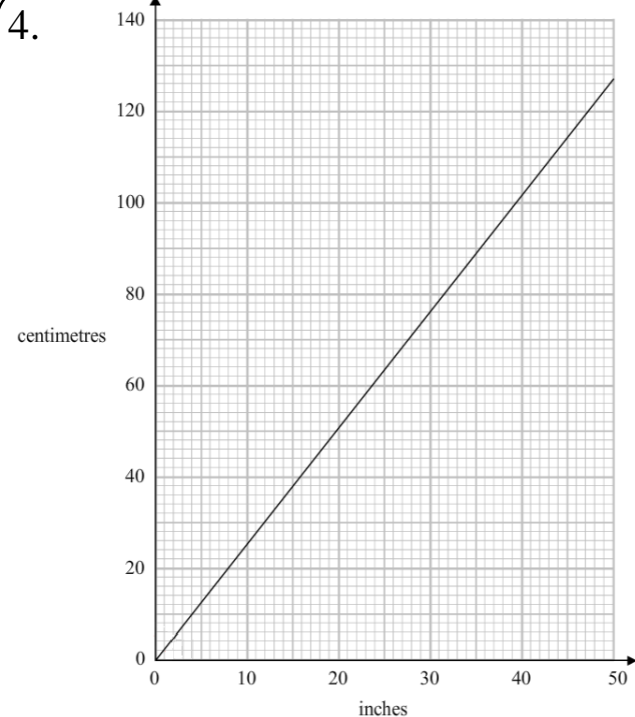
| Time (Minutes) | Frequency |
|------------------|-----------|
| $0 < t \leq 10$ | 5 |
| $10 < t \leq 20$ | 12 |
| $20 < t \leq 30$ | 20 |
| $30 < t \leq 40$ | 3 |



(a) What mistake is made.

.....They have plotted the upper bound instead of the midpoint.....

(2 marks)



Convert

(i) 20 inches

51cm

(ii) 40 cm

16 inches

(iii) 80 inches

204cm

(iv) 300 cm

117 inches

(4 marks)

5. The table show the weights of a group of athletes.

| Weight (stone) | Frequency |
|------------------|-----------|
| $10 < w \leq 12$ | 6 |
| $12 < w \leq 14$ | 11 |
| $14 < w \leq 16$ | 19 |
| $16 < w \leq 18$ | 5 |

(a) State the modal class interval.

$14 < w \leq 16$

(b) Find the group that contains the median.

$14 < w \leq 16$

(c) Estimate the mean.

14.1

(5 marks)

6. Craig takes half an hour to get to work in the morning.

His work is 25 miles away.

What is his average speed for his journey?

50 mph

(2 marks)

Score =