Foundation Homework 58 : Data

1. Here is a set of data.

5	8	9	12

Work out the final card number if the set have:

- Median = 7
- Range = 7
- Mean = 8.5

12

(3 marks)

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2. Here is some data.

136	128	140	152	136	145	124
151	135	142	136	125	146	156
150	122	145	158	139	148	134

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

12	2 4 5 8
13	4 5 6 6 6 9
14	0 2 5 5 6 8
15	0 1 5 5 8

Key: 14 | 5 = 145

(b) Calculate the mode.

136

(c) Calculate the median

140

(4 marks)

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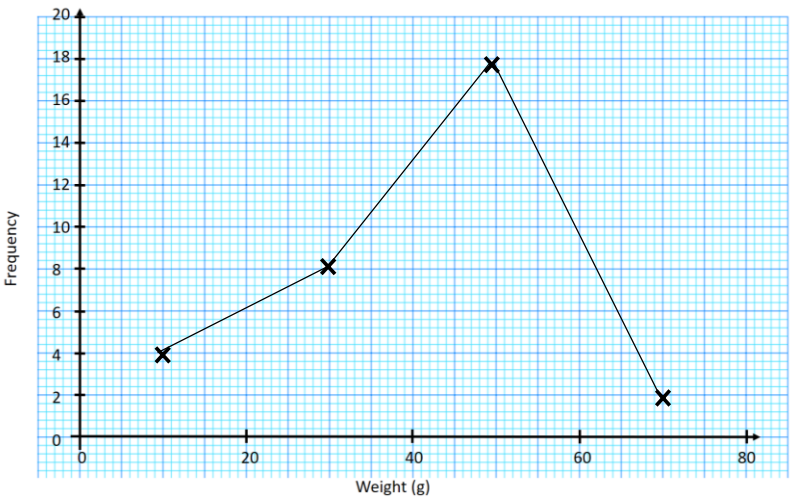
3. A frequency polygon has been drawn for the table below.

Weight (g)	Frequency
0 < w ≤ 20	4
20 < w ≤ 40	6
40 < w ≤ 60	18
60 < w ≤ 80	2

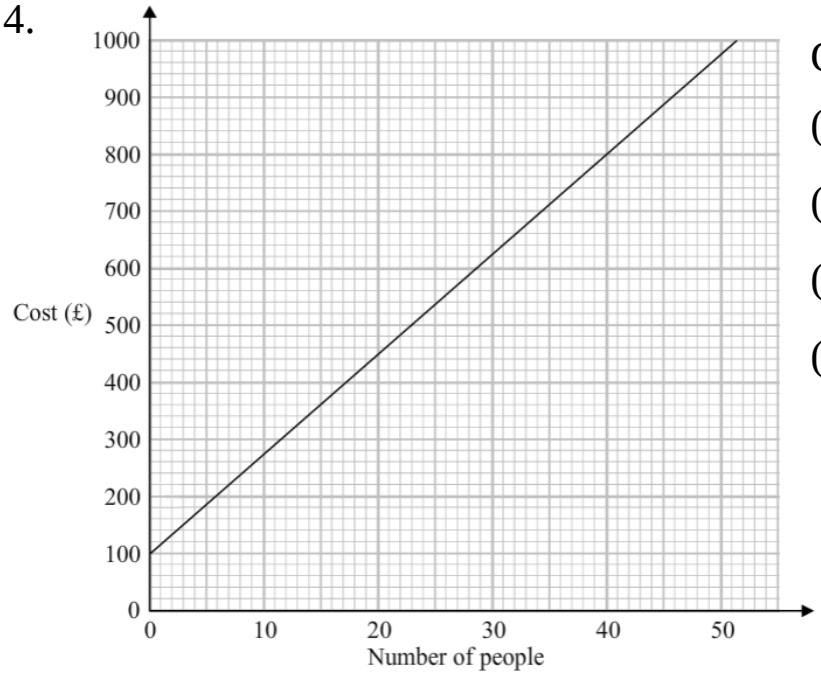


(a) What mistake is made.

They have plotted 8 instead of 6 for the 20 < W ≤ 40 group

(2 marks)

4.



Convert

(i) 40 people ..... £800 .....

(ii) £200 ..... 6 people .....

(iii) 25 people ..... £540 .....

(iv) £820 ..... 41 people .....

(4 marks)

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

Weight (kg)	Frequency
$20 < w \leq 24$	7
$24 < w \leq 28$	15
$28 < w \leq 32$	19
$32 < w \leq 36$	11

(a) State the modal class interval. ..... $28 < w \leq 32$ .....

(b) Find the group that contains the median. ..... $28 < w \leq 32$ .....

(c) Estimate the mean. ..... 28.6 .....

(5 marks)

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6. Connor takes 15 minutes to get to the gym.
His average speed is 40 mph.
How far away is the gym?

..... 10 miles .....

(2 marks)

Score =