Foundation Homework 55 : Data

1. Here is a set of data.

7 5 12 9 7 14 3 15

Work out the,

(i) Median ..... 8 .....

(ii) Mode ..... 7 .....

(iii) Range ..... 12 .....

(iv) Mean ..... 9 .....

(5 marks)

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2. Here is a list of ages of some people in a cafe.

42	29	18	32	31	17	15	40	33	15
22	37	28	20	23	26	41	25	13	30

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

1	3 5 5 7 8
2	0 2 3 5 6 8 9
3	0 1 2 3 7
4	0 1 2

Key: 1 | 7 = 17

(b) Calculate the median. ..... 27 .....

(3 marks)

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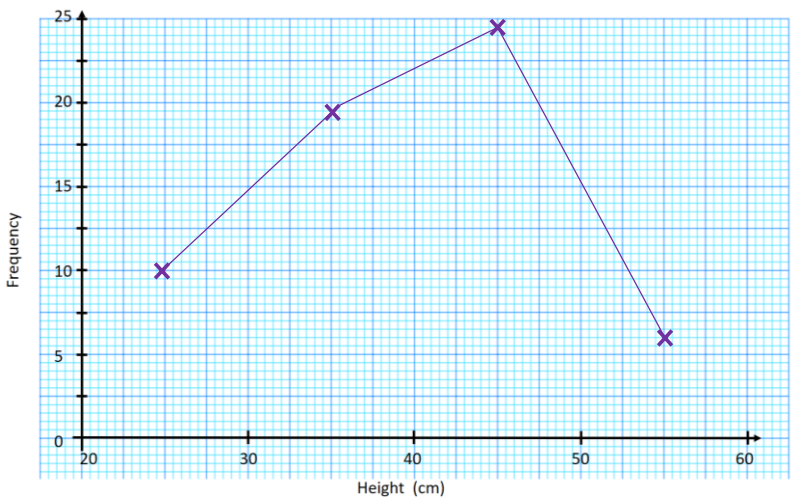
3. The table show the weights of some pineapples.

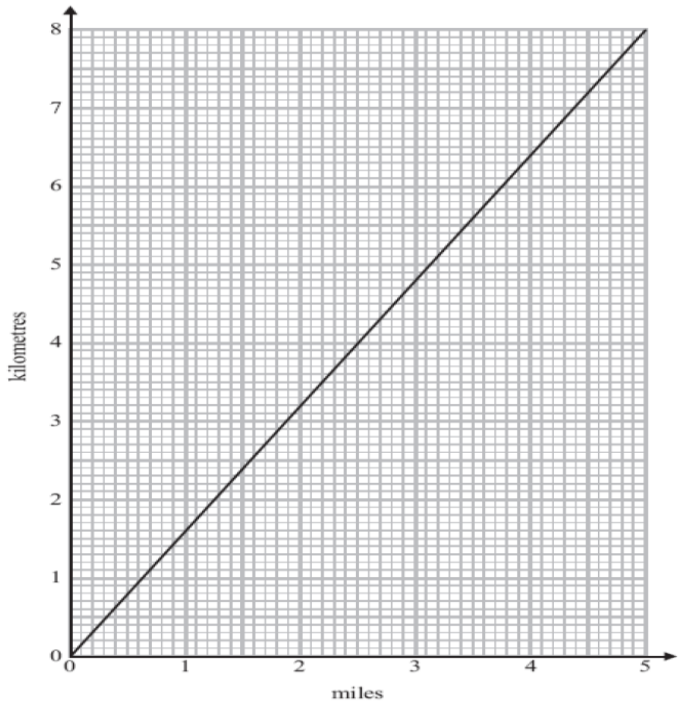
Weight (g)	Frequency
$20 < w \leq 30$	10
$30 < w \leq 40$	19
$40 < w \leq 50$	24
$50 < w \leq 60$	7



Draw a frequency polygon of this data.

(2 marks)

4.



Convert

(i) 1 mile ..... $1.6\ km$

(ii) 3 km ..... $2.9\ miles$

(iii) 8 miles ..... $6.4\ km$

(iv) 20 km ..... $12.5\ miles$

(4 marks)

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5. The table show the weights of some pineapples.

Weight (g)	Frequency
$20 < w \leq 30$	10
$30 < w \leq 40$	19
$40 < w \leq 50$	14
$50 < w \leq 60$	7

(a) State the modal class interval. ..... $30 < w \leq 40$

(b) Find the group that contains the median. ..... $30 < w \leq 40$

(c) Estimate the mean. 38.6

(5 marks)

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6. Ruby takes 2 hours to get home from work because of a traffic jam.
Her journey home is 45 miles away,
What was her average speed during the journey?

..... $22.5\ mph$

(2 marks)

Score =