

Ex 19 Statistics

Section A (Knowledge)

- 1 The number of people visiting a monument over a number of days was recorded on a frequency table.

No. of people	Frequency	No. of people \times frequency
15	8	120
16	9	
17	10	
18	8	
19	5	
	40	

Copy and complete the table and calculate the mean.

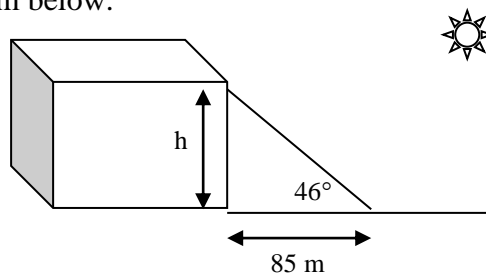
- 2 A group of 20-year old girls were asked to list the number of boys they had dated since they turned 16.
The results of the survey are shown in the frequency table below.

No. of boys dated	0	1	2	3	4	5	6	7	8	9	10
No. of girls	1	3	2	5	1	7	4	0	2	1	1

- a) Write down the median number of boyfriends.
b) Write down the upper and lower quartiles.
c) Draw a neat boxplot to show the results of the survey.
- 3 There are 1 red, 2 blue and 3 green counters in a bag.
a) A counter is taken from the bag, what is the probability that the counter is blue?
b) The counter is replaced in the bag and 2 yellow counters are added to the bag. A counter is taken from the bag. What is the probability that it is **not** green.
- 4 Fiona checks out the price of a litre of milk in several shops. The prices in pence are:-
49 44 41 52 47 43
Calculate the standard deviation

Section C (Mixed)

- 5 The angle of elevation from the ground to the top of a block of flats is 46° . The angle is measured at a point 85 metres away from the flats as shown in the diagram below.



Calculate the height, h metres, of the block of flats, correct to 1 decimal place.