1 Here is a list of numbers.

3 3 3 3 4 4 5 7 8

Write down the mode of the numbers.

.....

(Total for Question 1 is 1 mark)

2 The table shows information about the number of social media accounts used by each of 300 students.

Number of social media accounts	Frequency
0	3
1	57
2	84
3	75
4	81

(a) Work out the total number of social media accounts used by these students.

.....

(2)

(b) Find the median number of social media accounts used by these students.

.....

(2)

(Total for Question 2 is 4 marks)

3 Here is the shoe size of each of 12 boys in a class.

4 5 6 6 6 7 7 8 8 8 8 9

(a) Find the median.

.....

(1)

(b) Work out the range.

.....

(1)

For the shoe sizes of each of 12 girls in the class,

the median size is 6
the range is 3

(c) Compare the distribution of the shoe sizes of the boys with the distribution of the shoe sizes of the girls.

.....

.....

.....

.....

.....

.....

(2)

(Total for Question 3 is 4 marks)

4 Here is a list of 8 letters.

B C A A A A B A

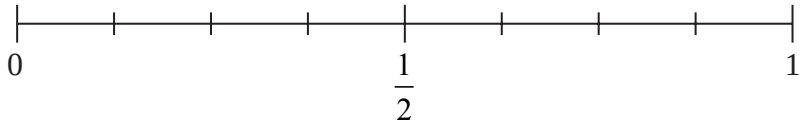
(a) Write down the mode.

.....

(1)

One of the 8 letters is going to be picked at random.

(b) (i) On the probability scale, mark with a cross (×) the probability that this letter will be B.



(1)

(ii) Find the probability that this letter will be C.

.....

(1)

(Total for Question 4 is 3 marks)

5 Hetvi asked her friends how many stickers they each have in their collection.
Here are her results.

77	86	94	87	71	98
74	103	71	85	82	84
97	91	88	89	75	

(a) Show this information in a stem and leaf diagram.



Key:

(3)

(b) Find the median number of stickers.

.....

(2)

(Total for Question 5 is 5 marks)

6 The table shows information about the heights of 80 teenagers.

Height (h cm)	**Frequency**
$150 < h \leqslant 160$	8
$160 < h \leqslant 170$	14
$170 < h \leqslant 180$	24
$180 < h \leqslant 190$	30
$190 < h \leqslant 200$	4

Work out an estimate for the mean height of the teenagers.

..... cm

(Total for Question 6 is 3 marks)

7 Four students play a game.
The table shows the number of points each student has.

Student	Ali	Barbara	Calliope	Danesh
Number of points	143	121	45	19

(b) Work out the mean number of points.

.....

(2)

(Total for Question 7 is 2 marks)

8 There are 30 women and 20 men at a gym.

The mean height of all 50 people is 167.6 cm
The mean height of the 20 men is 182 cm

Work out the mean height of the 30 women.

..... cm

(Total for Question 8 is 3 marks)

9 Here are 6 numbers.

13 5 4 9 3 8

Work out the mean.

.....

(Total for Question 9 is 2 marks)

10 There are 3 cinemas **A**, **B** and **C**.

The mean number of seats per cinema is 380

There are 350 seats in cinema **A**.
There are 250 seats in cinema **B**.

Work out the number of seats in cinema **C**.

.....

(Total for Question 10 is 4 marks)

11 The table shows the number of books read by four people in one month.

Person	Number of books
Ximena	7
Martha	9
Kezia	1
Tabby	5

(a) Work out the median number of books.

.....

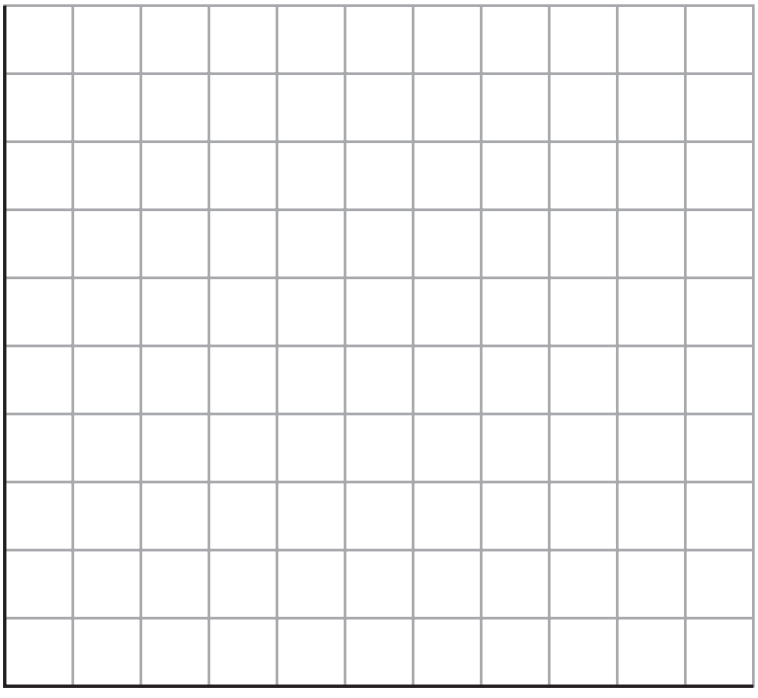
(2)

(b) Find the range.

.....

(1)

(c) On the grid, draw a bar chart to show the information in the table.



(3)

(Total for Question 11 is 6 marks)

12 Tessa recorded the times that 15 adults took to complete a run.
She showed her results in a stem and leaf diagram.

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

Key:

4 | 5 represents 45 minutes

(a) Find the median.

..... minutes

(1)

(b) Find the range.

..... minutes

(2)

Tessa also recorded the times that 15 children took to complete the run.

For the children, the median was 75 minutes.

(c) Compare the times that the adults took with the times that the children took.

.....

.....

.....

(1)

(Total for Question 12 is 4 marks)

13 The table shows information about the weights of 120 oranges.

Weight (w grams)	**Frequency**
$50 < w \leqslant 100$	34
$100 < w \leqslant 150$	29
$150 < w \leqslant 200$	27
$200 < w \leqslant 250$	19
$250 < w \leqslant 300$	11

(a) Find the class interval that contains the median.

.....

(1)

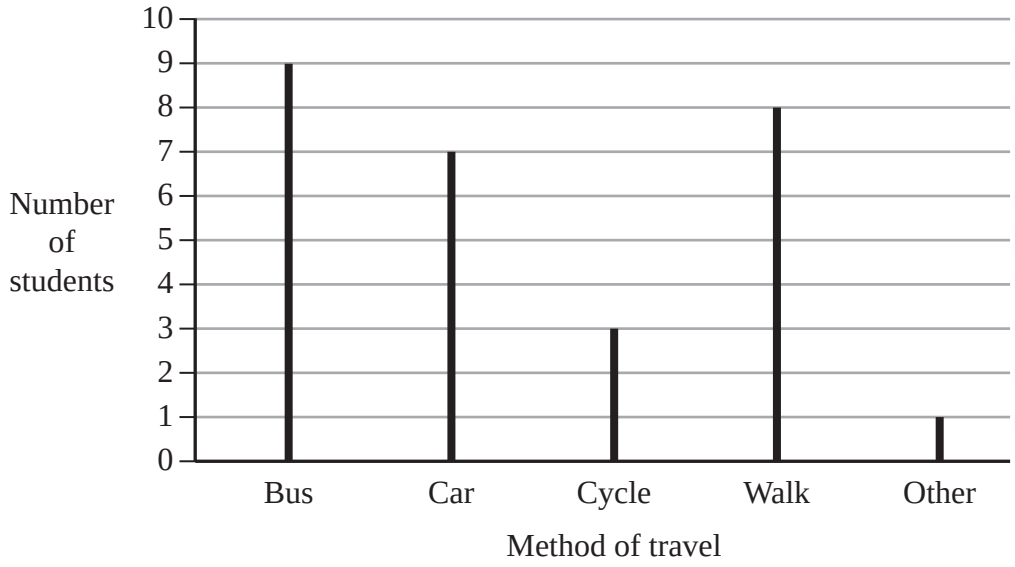
(b) Calculate an estimate for the mean weight of the 120 oranges.
Give your answer correct to 3 significant figures.

..... grams

(3)

(Total for Question 13 is 4 marks)

14 Julie asks some students how they travel to school.
The chart shows her results.



(a) Write down which method of travel is the mode.

.....

(1)

More students walk to school than cycle to school.

(b) How many more?

.....

(1)

(Total for Question 14 is 2 marks)