Descriptive Stats 1

 The mean of the ten numbers listed below is 6

(a) Write down an equation in terms of p and q.

[2 marks]

The mode of these ten numbers is five and p is less than q.

- (b) Write down the value of
 - (i) p;

(ii) q. [2 marks]

(c) Find the median of the ten numbers.

[2 marks]

The temperatures in °C, at midday in Geneva, were measured for eight days and the results are recorded below.

The mean temperature was found to be 7 °C.

(a) Find the value of T.

[3 marks]

(b) Write down the mode.

[1 mark]

(c) Find the median.

[2 marks]

3) The following table shows the number of errors per page in a 100 page document.

Number of errors	0	1	2	3	4
Number of pages	28	24	20	17	11

(a) State whether the data is discrete, continuous or neither.

[1 mark]

(b) Find the mean number of errors per page.

[2 marks]

(c) Find the median number of errors per page.

[2 marks]

(d) Write down the mode.

[1 mark]

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4) The grades obtained by a group of 20 IB students are listed below:

6	2	5	3	5	5	6	2	6	1
7	6	2	4	2	4	3	4	5	6

(a) Complete the following table for the grades obtained by the students.

[2 marks]

Grade	Frequency
1	
2	
3	2
4	
5	4
6	
7	1

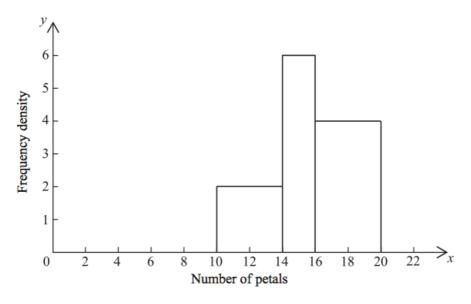
(b) Write down the modal grade obtained by the students.

[1 mark]

(c) Calculate the median grade obtained by the students.

[2 marks]

5) The diagram shows the frequency density histogram for the number of petals on roses.



The information is displayed in the frequency table below.

Number of petals (x).	Frequency
$10 < x \le 14$	а
14 < x ≤ 16	12
$16 < x \le 20$	Ь

- (a) Find the values of a and b.
- (b) State the modal group.
- (c) Calculate an estimate of the mean number of petals.

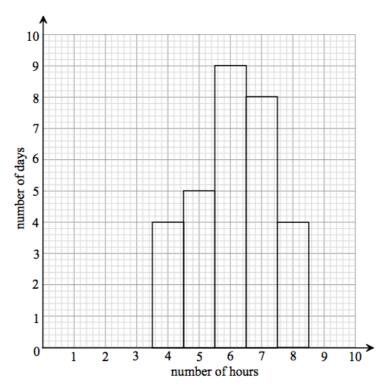
6) The numbers of games played in each set of a tennis tournament were

The raw data has been organised in the frequency table below.

games	frequency
6	2
7	5
8	n
9	4
10	4
11	2
12	2
13	2

- (a) Write down the value of n.
- (b) Calculate the mean number of games played per set.
- (c) What percentage of the sets had more than 10 games?
- (d) What is the modal number of games?

7) The number of hours that a professional footballer trains each day in the month of June is represented in the following histogram.



- (a) Write down the modal number of hours trained each day.
- (b) Calculate the mean number of hours he trains each day.