Name:	Date:
IB Math Studies / SL	Ms. Guarnaccia / Dr. Huson
	Statistics Review Problem Set 3

6a. [3 marks]

A class of 15 students were asked how many pencils they bring to class. The following results were recorded:

5, 7, 4, 5, 6, 7, 7, 4, 6, 5, 4, 6, 7, 2, 11

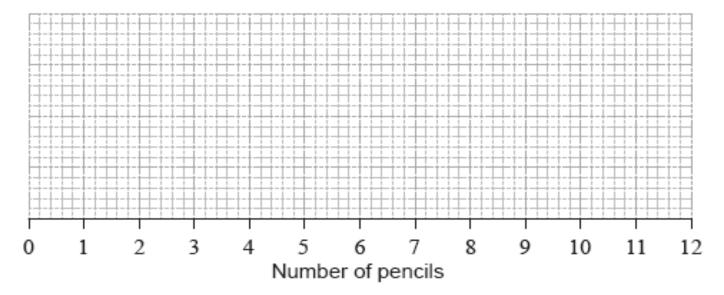
For these results, write down

- (i) the median;
- (ii) the mode.

6b. [3 marks]

The upper and lower quartiles of these results are 4 and 7, respectively.

Draw a box-and-whisker diagram to represent these results.



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7a. [2 marks]	
The IB grades attained by a group of students are li	isted as follows.
$6\ 4\ 5\ 3\ 7\ 3\ 5\ 4\ 2\ 5$	
Find the median grade.	
7b. [2 marks] Calculate the interquartile range.	
7c. [2 marks]	
Find the probability that a student chosen at rando	om from the group scored at least a grade 4 .

IB Math Studies / SL

Ms. Guarnaccia / Dr. Huson

8a. Two groups of 40 students were asked how many books they have read in the last two months. The results for **the first group** are shown in the following table.

Number of books read	Frequency
2	5
3	8
4	13
5	7
6	4
7	2
8	1

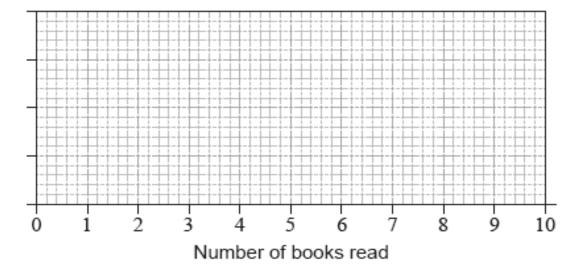
The quartiles for these results are 3 and 5.

Write down the value of the median for these results.

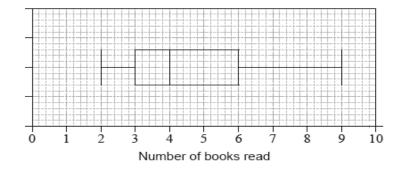
[1 mark]

8b. Draw a box-and-whisker diagram for these results on the following grid.

[3 marks]



8c. The results for **the second group** of 40 students are shown in the following box-and-whisker diagram.



Estimate the number of students **in the second group** who have read at least 6 books.

[2 marks]

Name:	Date:
IB Math Studies / SL 9a. [1 mark]	Ms. Guarnaccia / Dr. Huson
A class of 13 Mathematics students received the follo	wing grades in their final IB examination.
3 5 3 4 7 3 2 7 5 6 5 3 4	
For these grades, find the mode;	
9b. [2 marks]	
For these grades, find the median;	
9c. [1 mark]	
For these grades, find the upper quartile;	
9d. [2 marks]	
For these grades, find the interquartile range.	