

Exam questions

Question 1

Gavin is a car salesman.

The table shows the number of cars he sold in one week.

Mon	Tue	Wed	Thu	Fri	Sat
2	0	1	4	1	2

The cost of each car is £20 950

For every car Gavin sells he earns

- 1.25% of the cost of the car in commission
- a bonus of £50.

Work out the median amount Gavin earned per day for this week.

Question 2

Nikos owns a restaurant.

The table shows information about the number of customers that visited the restaurant on each of the 31 nights in August.

Number of customers	Frequency		
1 – 15	2		
16 – 30	7		
31 – 45	12		
46 – 60	10		

The mean number of customers per night in July was 32.

Nikos thinks the mean number of customers per night in August was more than the mean number of customers per night in July.

Is Nikos correct?

Show why you think this.

Question 3

In October Mr Barker gave a group of 250 students a history test.
These are the results.

Number of marks	Frequency		
1 to 5	20		
6 to 10	50		
11 to 15	120		
16 to 20	60		

Mr Barker estimates the mean mark to be 12.

(a) Is Mr Barker correct?

Show why you think this.

In the October test the lowest mark was 2 and the highest mark was 17.

In November the same students took a similar test.

The lowest mark was 5 and the highest mark was 18.

Mr Barker wants to write a statement comparing the spread of marks in the two tests.

(b) Write a statement to compare the spread of marks in the two tests.

You **must** show calculations to support your statement.