Write your name here		
Surname	Other nan	nes
In the style of: Edexcel GCSE	Centre Number	Candidate Number
Mathema	tics A	
Scattergrap	hs	Higher Tier
Scattergrap	hs estions	Higher Tier Paper Reference
Scattergrap Past Paper Style Que Arranged by Topic	hs estions	Higher Tier Paper Reference 1MA0/2H

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators may be used.

Information

- The total mark for this paper is 100
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.







Andy		1	2	1	2	1	2	1		
Lauren		3	5	2	2	4	6	1		
Noah		4	4	4	4	4	4	4		
Which, if a likely? Circ	ny, of le you	these j r choic	predict e and	tions is explair	the mo	st inswer.				
Andy		Laure	en]	Noah	All	are equa	ally like	ely	
									(2	2)
After each The relative	10 thro frequ	ows sho encies	e recor for the	rds the e first 9	number 90 throv	of sixe vs are s	es throv shown o	vn. n the gi	raph.	
		` 								
	0.5 -	*								
	0.5 -	*	*		*	*	* *			
	0.5 -	*	*	*	*	*	* *	*	*	
Relative frequency of a six	0.5 - 0.4 - 0.3 -	*	*		*	*	* *	*	*	
Relative frequency of a six	0.5 - 0.4 - 0.3 -	*	*		*	×	* *	*		
Relative frequency of a six	0.5 - 0.4 - 0.3 - 0.2 - 0.1 -		*							
Relative frequency of a six	0.5 - 0.4 - 0.3 - 0.2 - 0.1 -									

(b) (i)	How many sixes were there in the first 10 throws?	
(ii)	After 100 throws there were 42 sixes. Calculate and plot the relative frequency of a six after 100 throws.	(1)
(iii)	How many sixes would you expect to get after 100 throws of a fair dice?	(1)
(iv)]	Is Nikki's dice fair? Tick the correct box. Yes No Give a reason for your answer.	(1)
	(Total 6 marks)	(1)

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 The scatter graph shows some information about 10 cars. It shows the time, in seconds, it takes each car to go from 0 mph to 60 mph. For each car, it also shows the maximum speed, in mph.



(a) What type of correlation does this scatter graph show?

The time a car takes to go from 0 mph to 60 mph is 11 seconds.

(b) Estimate the maximum speed for this car.

..... mph (2)

(Total 3 marks)



3. The scatter graph shows information about eight dogs. It shows the height and the length of each dog.



Height (cm)

The table gives the height and the length of two more dogs.

Height (cm)	65	80
Length (cm)	100	110

(a) On the scatter graph, plot the information from the table.

(1)

(1)

(b) Describe the relationship between the height and the length of these dog.

.....

The height of a dog is 76 cm.

(c) Estimate the length of this dog.

.....cm (2)

(Total 4 marks)



4. Some students revised for a mathematics exam. They used a private tutor. The scatter graph shows the times seven students spent with the tutor and the marks the students got in the mathematics exam.



Here is the information for 3 more students.

Hours with tutor	7	10	16
Mark	50	56	78

(a) Plot this information on the scatter graph.

(1)

(b) What type of correlation does this scatter graph show?

(c) Draw a line of best fit on the scatter graph.



5. The scatter graph shows information for some weather stations. It shows the height of each weather station above sea level (m) and the mean August midday temperature (°C) for that weather station.







7. Sophie reads eight books.

For each book she recorded the number of pages and the time she takes to read it. The scatter graph shows information about her results.



..... hours (2)

(Total 3 marks)



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Length of journey (miles)	1.8	2.1	2.2	2.5	3.2	3.7	4.0	4.6	5.8	6.4
Cost of journey (£)	0.90	0.80	1.50	1.60	2.00	2.20	2.40	2.90	3.10	3.40







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