Name: _____

GCSE (1 - 9)

Systematic Listing

Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

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

	<u>Men</u>	u	
	Starter	Main	
	Soup Dough Balls Garlic Bread	Pasta Pizza Salad	
Write down al	l the possible combinations Andrew	can choose.	
		(Total for g	uestion 1 is 2 ma
The dice can la	ng to roll a 6 sided dice and flip a co and on 1, 2, 3, 4, 5 or 6. and on heads or tails.		uestion 1 is 2 ma
The dice can lead the coin can lead to the coin can	and on 1, 2, 3, 4, 5 or 6.		uestion 1 is 2 ma
The dice can lead the coin can lead to the coin can	and on 1, 2, 3, 4, 5 or 6. and on heads or tails.		uestion 1 is 2 ma
The dice can lead the coin can lead to the coin can	and on 1, 2, 3, 4, 5 or 6. and on heads or tails.		uestion 1 is 2 ma
The dice can lead the coin can lead to the coin can	and on 1, 2, 3, 4, 5 or 6. and on heads or tails.		uestion 1 is 2 mar
The dice can lead the coin can lead to the coin can	and on 1, 2, 3, 4, 5 or 6. and on heads or tails.	oin.	uestion 1 is 2 man
The dice can late the coin can late the coin can late the position of the coin can late the position of the coin can late the position of the coin can late	and on 1, 2, 3, 4, 5 or 6. and on heads or tails.	oin.	

(Total for question 3 is 2 marks)

4 Charlotte has to choose which subjects she wants to study. She can choose one humanity and one language from the options.

Options Humanities Languages

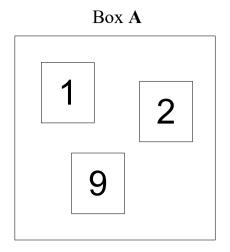
History Geography French German Spanish

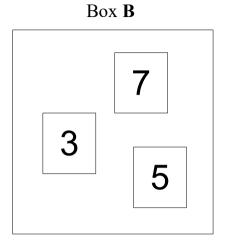
			Total for question	
	roll two 6-sided dice. l on 1, 2, 3, 4, 5 or 6.			
(a) List all the poss	sible outcomes.			
				(3
Archie adds up the	two numbers to get a total	score.		
(b) Work out the pr	robability of Archie scoring	more than 7.		
				(1

6	Here are three number cards
	5 2 8
	Write down all the possible two-digit numbers that can be made using the cards.
	(Total for question 6 is 2 marks)
7	Here are four number cards
	1 2 3 4
	Write down all the possible three-digit numbers that can be made using the cards.
	(Total for question 7 is 3 marks)

3	Here are three number cards
	9 5 7
	Write down all the possible three-digit numbers that can be made using the cards.
_	(Total for question 8 is 2 marks)
)	Here are four number cards
	5 2 5 9
	Write down all the different possible four-digit numbers that can be made using the cards.
	(Total for question 9 is 3 marks)

There are three cards in box A and three cards in box B.
There is a number on each card.





Charles takes a card from box A and a card from box B. He multiplies the numbers on the two cards to get a total score.

Work out the probability that the total score is an odd number.

(Total for question 10 is 3 marks)

				ill be in second place, one
		ill be in fourth place.		
(b) Use		the possible outcome		
	First Place	Second Place	Third Place	Fourth Place

12	There are three cards in box A and three cards in box B. There is a number on each card.					
	Box A	Box B				
	3 6	5 4				
	Harry takes a card from box A and a card	from box B.				
	(a) Write down all the possible combinate					
	Harry adds the numbers on the two cards to get a total score.					
	(b) Work out the probability that the total score is greater than 12.					
	(e) well con the processing that the term					
		(1) (Total for question 12 is 3 marks)				