Write your name here		
Surname	Other nam	nes
In the style of: Edexcel International GCSE	Centre Number	Candidate Number
Mathema Sets	tics B	
Past Paper Style Que Arranged by Topic	estions	Paper Reference 4MB0/01
You must have: Ruler graduat protractor, compasses, pen, H paper may be used.	ted in centimetres and milli B pencil, eraser, calculator. ⁻	imetres, Tracing

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 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.
- Check your answers if you have time at the end.
- Without sufficient working, correct answers may be awarded no marks.

Turn over 🕨



1. $\mathscr{E} = \{ \text{positive even integers} \},$	
$X = \{x : x \le 14\},\$ $Y = \{x : x > 8\}.$ List the members of the set $X \cap Y$.	
	(2) (Total for Question 1 is 2 marks)
2. $\mathscr{C} = \{x: x \text{ is a positive integer}\}\$ $X = \{x: x > 4\}$ $Y = \{x: x \le 1 \ 0\}$	
(a) List the elements of the set $X \cap Y$	
	(2)
(b) Write down the value of $n(X')$	(1) (Total for Question 2 is 3 marks)
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3.	$\mathscr{E} = \{ \text{positive integers less than or equal to 16} \},$	
	$A = \{ \text{factors of 16} \},\$	
	$B = \{ \text{multiples of } 2 \}.$	
	Write down the elements of the set	
	(a) <i>A</i> ,	
		(1)
	(b) <i>B</i> ′,	
		(1)
		(1)
	(c) $A \cap B'$	
	$(\mathbf{C}) \ A + \mathbf{C}$	
		(1)
		(Total 3 marks)



A group of 56 tourists visiting England were asked which places they had visited. 27 said that they had visited *London* (L), 22 said that they had visited *Stratford on Avon* (S) and 3 said that they had visited both *London* and *Stratford on Avon*.

Complete the diagram above to show this information.

(Total 2 marks)







(a)





The Venn diagram gives information about the number of elements in the set *X* and in the set *Y*.

Given that n(X) = n(Y), find the value of *x*.

Q7

(Total 2 marks)

x =





(a) n(Y),

(b) $n(A \cup B \cup C)$.

•	•	•	•		•	•	•	•	•	•	•		•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•
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.....

(2)

Q8

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(Total 4 marks)

9. $\mathscr{E} = \{\text{polygons}\},\$

- $S = \{$ squares $\},$
- $Q = \{$ quadrilaterals $\},$
- $G = \{ \text{octagons} \}.$

E

Represent these sets on the Venn diagram.

(Total 2 marks) Q9



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