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	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAI International General Certificate of Secondary Education	
CANDIDATE NAME		
CENTRE NUMBER	CAND NUMB	
MATHEMATIC	S	0580/03, 0581/03
Paper 3 (Core)		May/June 2008
		2 hours
Candidates and	swer on the Question Paper.	
Additional Mate	rials: Electronic calculator Geometrical in Mathematical tables (optional) Tracing paper	

## **READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen. You may use a soft pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

0 Γ 0

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For  $\pi$ , use either your calculator value or 3.142.

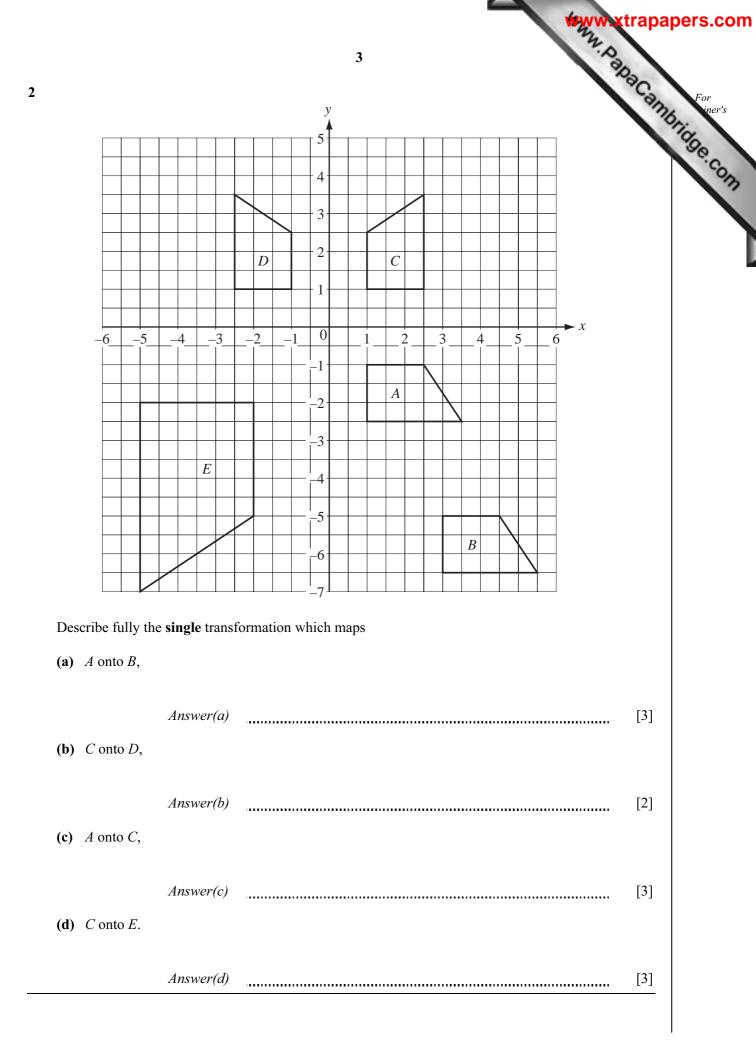
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 104.

For Examiner's Use					

This document consists of 15 printed pages and 1 blank page.



		Market Wardship	trapapers.co				
		2					
1	2 Alphonse, his wife and child fly from Madrid to the Olympic Games in Beijing. The adult plane fare is 450 euros. The child fare is 68% of the adult fare. (a) Show that the total plane fare for the family is 1206 euros. Show all your working clearly. <i>Answer (a)</i>						
	(a)	Show that the total plane fare for the family is 1206 euros. Show all your working clearly.	500				
		Answer (a)	-01				
			[3]				
	<b>(b)</b>	The ratio of the money spent on plane fares : accommodation : tickets = $6:5:3$ .					
		Calculate the <b>total</b> cost.					
		Answer(b) euros	[3]				
	(c)	Alphonse changes 500 euros into Chinese Yuan at a rate of 1 euro = 9.91 Chinese Yuan.					
		How many Chinese Yuan does he receive?					
		Answer(c) Yuan	[2]				
	(d)	Their plane leaves Madrid at 0545. The journey takes 11 hours 35 minutes. Beijing time is 6 hours ahead of Madrid time.					
		Find the time in Beijing when they arrive.					
		Annual	[2]				
		Answer(d)	[2]				

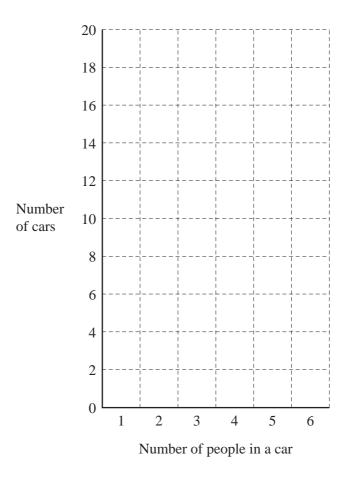


- 3 Marie counts the number of people in each of 60 cars one morning.
  - (a) She records the first 40 results as shown below.

Marie counts the number of po (a) She records the first 40 re	<b>4</b> eople in each of 60 cars one morning. esults as shown below.	WANNA, Baba	For iner's
Number of people in a car	Tally	Number of cars	·com
1	##		
2	HH HH		
3	JHT I		
4	JHT I		
5	HH II		
6	HH1		

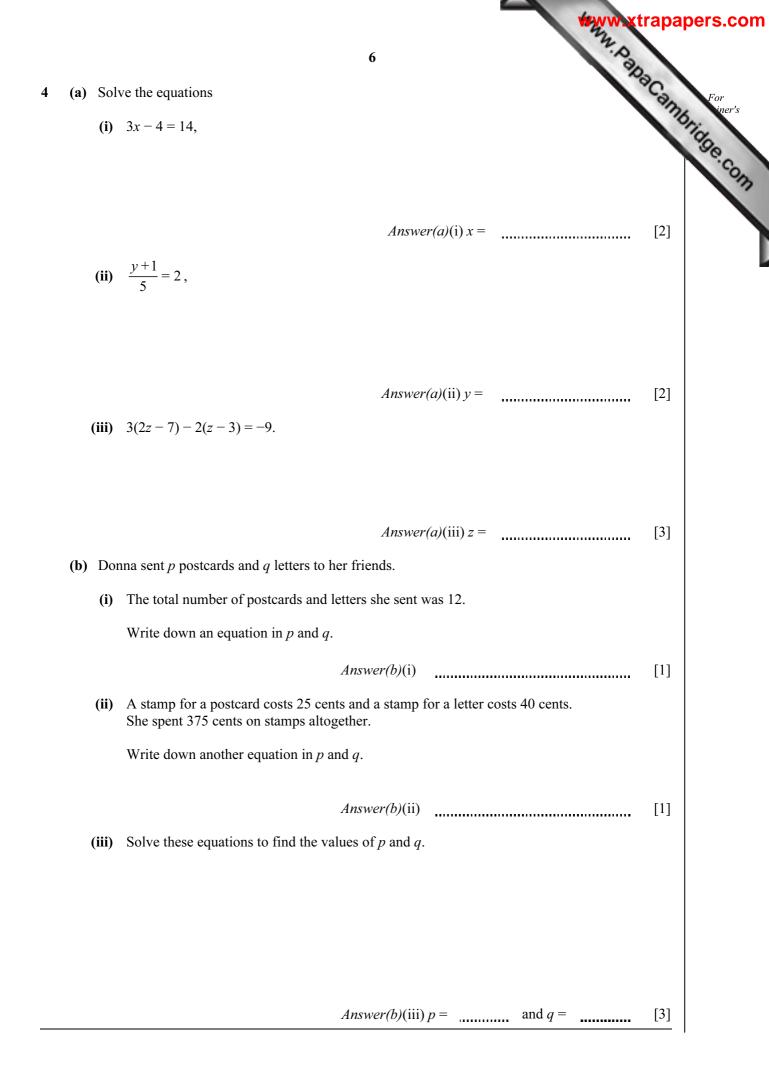
The remaining 20 results are

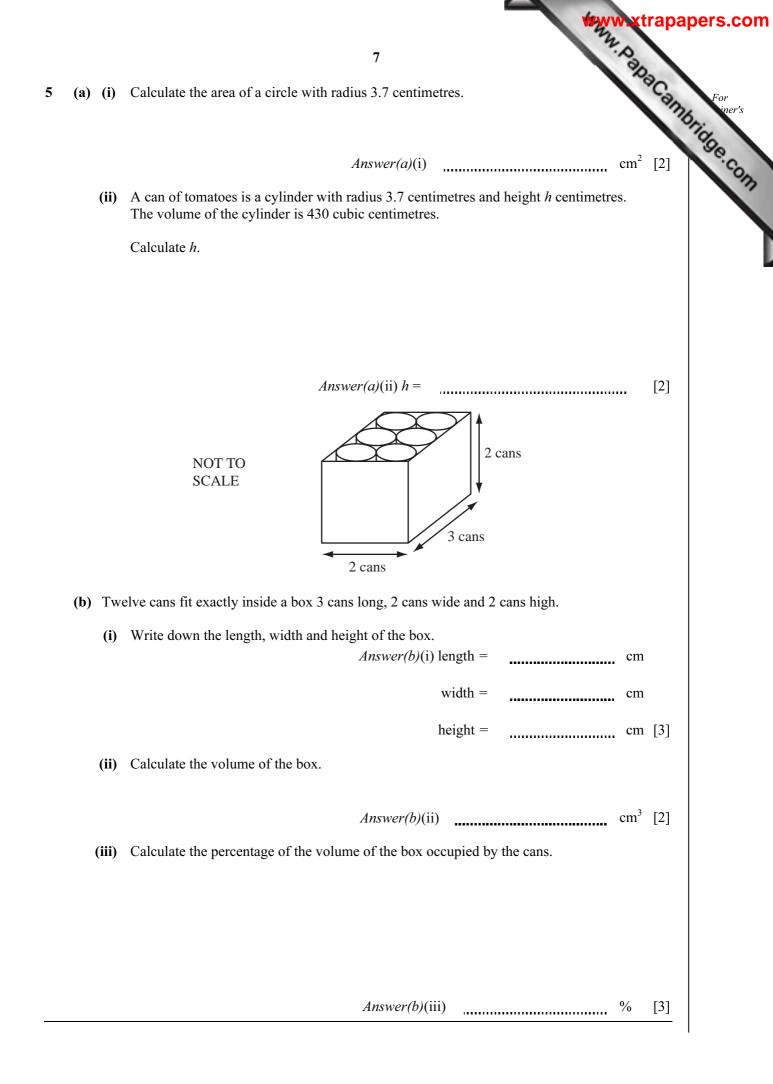
- (i) Use these results to complete the frequency table above.
- (ii) On the grid below, draw a bar chart to show the information for the 60 cars.

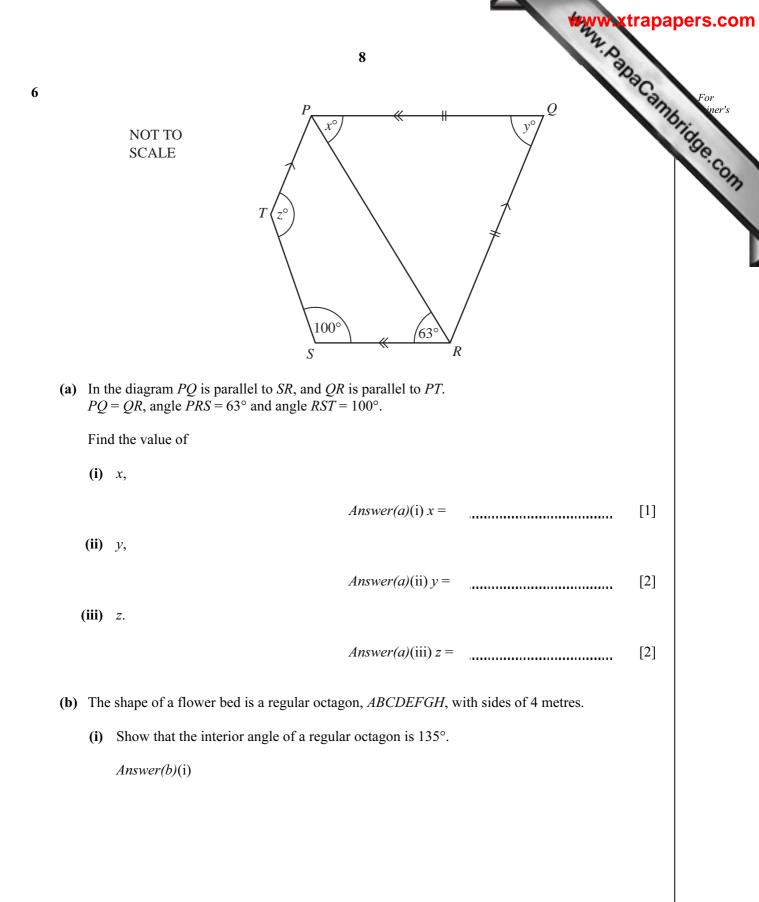


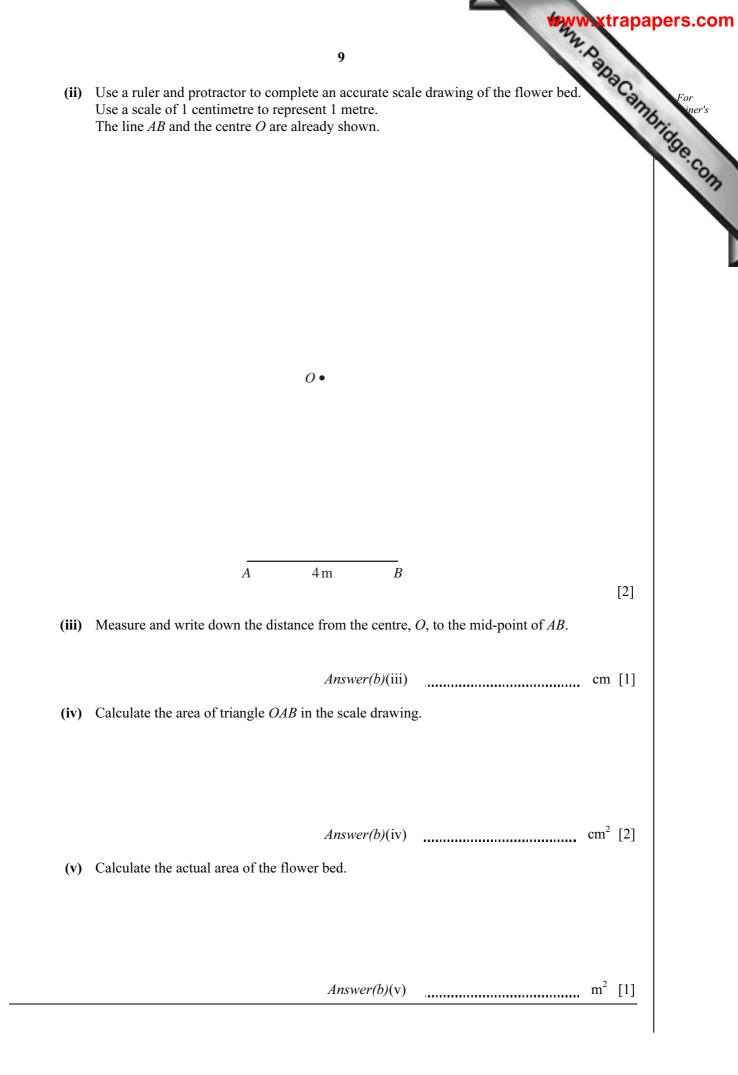
[2]

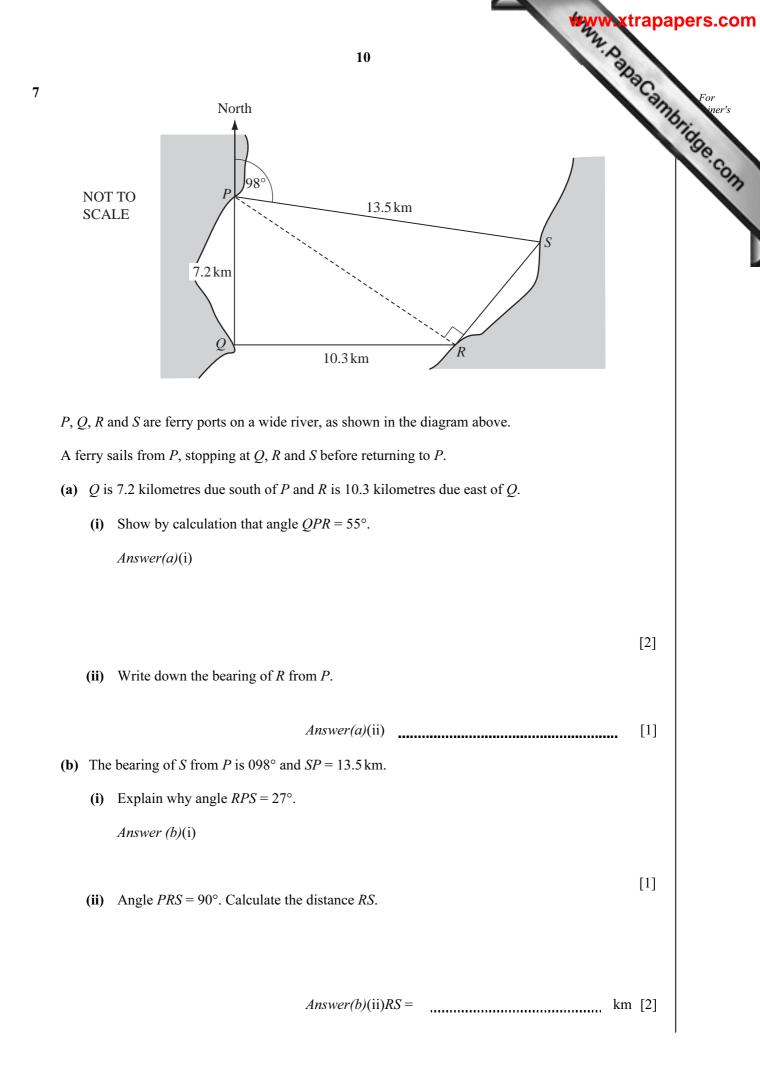
			-	ARTIN A	trapapers.com
	(iii)	Write down the mode.	5	3	For iner's
			Answer(a)(iii)		A Hidde
	(iv)	Find the median.			.com
	(v)	Work out the mean.	Answer(a)(iv)		
			Answer(a)(v)		[3]
(b)	Mai	nuel uses Marie's results to draw a pie	chart.		
	Wo	k out the sector angle for the number of	of cars with 5 peo	ple.	
			Answer(b)		[2]

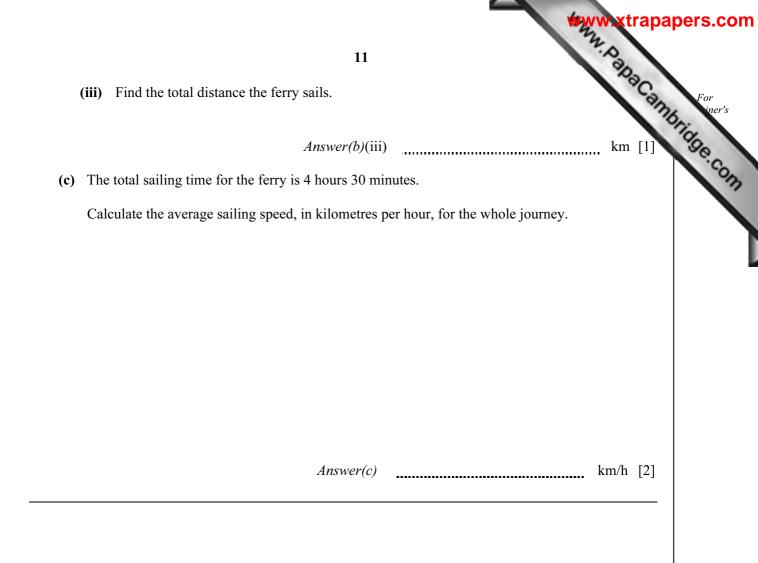












 12

 8 (a) The width of a rectangle is x centimetres. The length of the rectangle is 3 centimetres more than the width. Write down an expression, in terms of x, for

 (i) the length of the rectangle,

 Answer(a)(i)
 cm [1]

 (ii) the area of the rectangle.

 Answer(a)(ii)
 cm<sup>2</sup> [1]

 (iii) The area of the rectangle is 7 square centimetres.

Show that  $x^2 + 3x - 7 = 0$ .

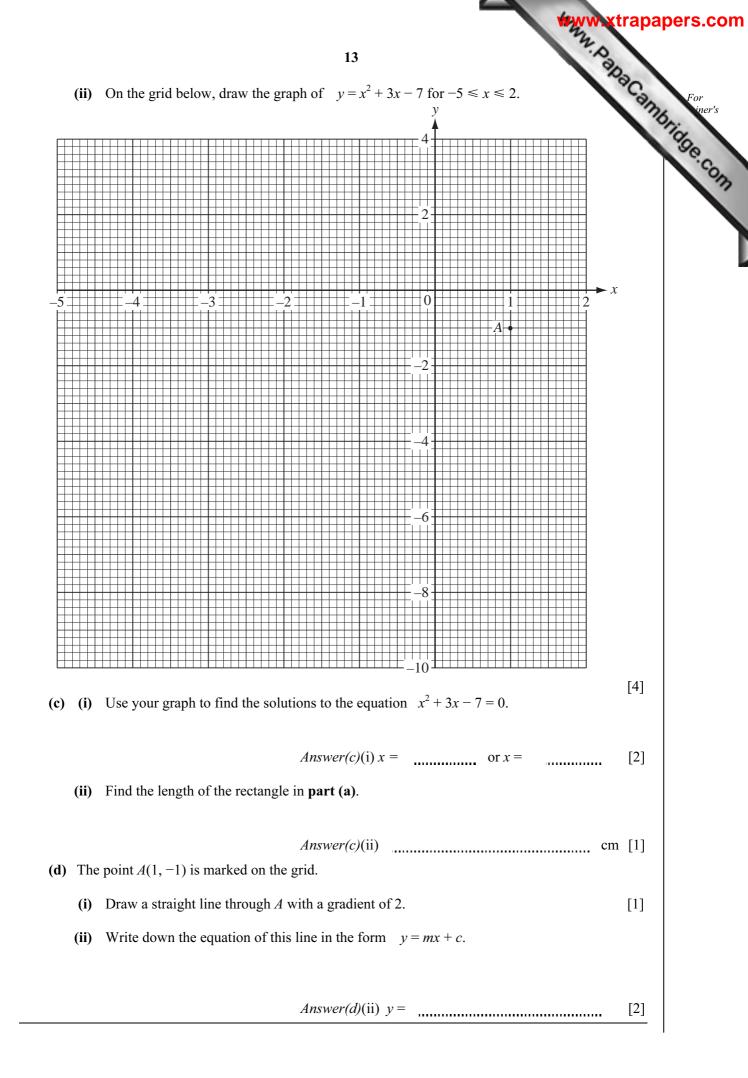
Answer (a)(iii)

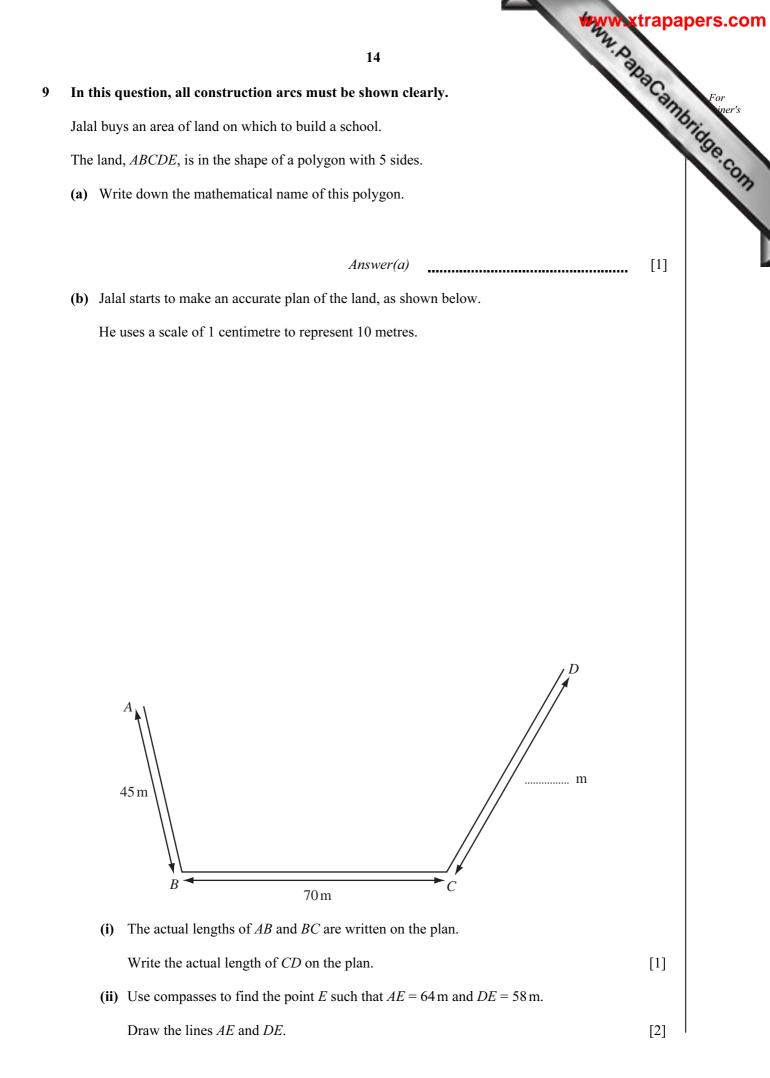
(b) (i) Complete the tables of values for the equation  $y = x^2 + 3x - 7$ .

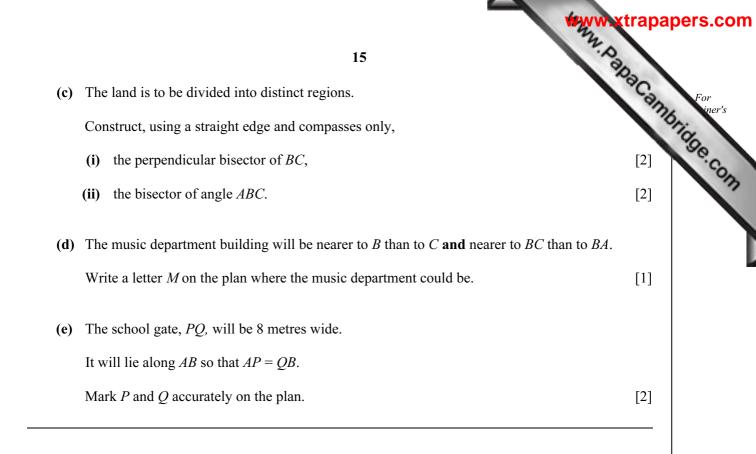
x	-5	-4	-3	-2	-1	0	1	2
у	3		-7	-9		-7		3

[3]

[1]









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