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	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education
CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER
MATHEMATIC	S 0580/03, 0581/03
Paper 3 (Core)	October/November 2008
Candidates and	wer on the Question Paper.
Additional Mate	
	Mathematical tables (optional) Tracing paper (optional)

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.

Answer all questions.

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 π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

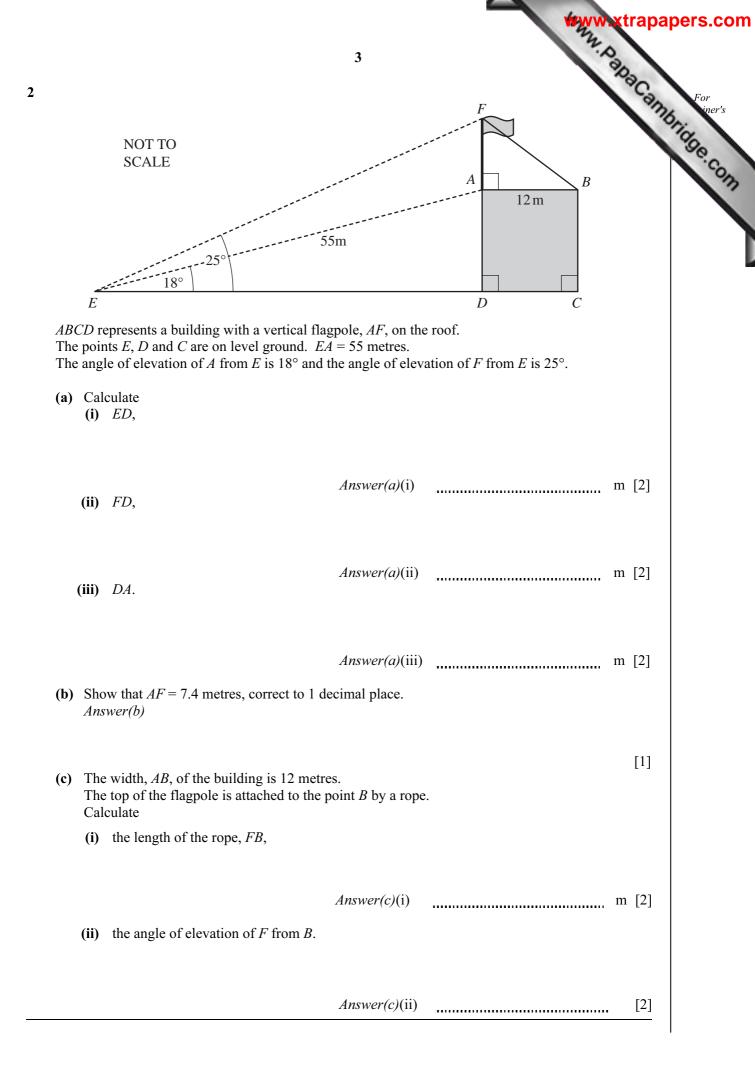
The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 104.

For Examiner's Use						

This document consists of 11 printed pages and 1 blank page.



	***	ww.xtrapap
	2	A.D.
Aida, B	Bernado and Cristiano need \$30000 to start a business.	Can
(a) (i)	They borrow $\frac{2}{5}$ of this amount. Show that they still need \$18000.	ww.xtrapap
	Answer (a)(i)	
		[1]
(ii)		
	Aida: Bernado: Christiano = $5:4:3$.	
	Calculate the amount each of them provides.	
	Answer(a)(ii)Aida \$	
	Bernado \$	
	Cristiano \$	[3]
(b) (i)	Office equipment costs 35% of the \$30000. Calculate the cost of the equipment.	
	Answer(b)(i)\$	[2]
(ii)	Office expenses cost another \$6500. Write this as a fraction of \$30000. Give your answer in its lowest terms.	
	Answer(b)(ii)	[2]
(iii)	How much remains of the \$30000 now?	
	Answer(b)(iii)\$	[1]
Af	ey invest \$12 500. Ter one year this has increased to \$15 500. Iculate this percentage increase.	
	Answer(c)	% [3]



all, r, for Nov Dec 6 5 65 67 during one year. Month Feb May June July Sep Oct Jan Mar Apr Aug 7 7 9 9 s (hours) 6 10 12 12 12 8 70 52 72 r(mm)41 20 6 1 4 16 52 65 67 (a) For s, find (i) the mode Answer(a)(i) hours [1] (ii) the range, Answer(a)(ii) hours [1] (iii) the median. Answer(a)(iii) hours [2] (b) On the grid below, plot the 10 points for March to December to complete the scatter diagram. $70 \cdot$ 60 50 Total 40 Monthly Rainfall (mm) 30 . 20 -

10 -

0

5

7

6

9

Average Daily Sunshine (hours)

10

11

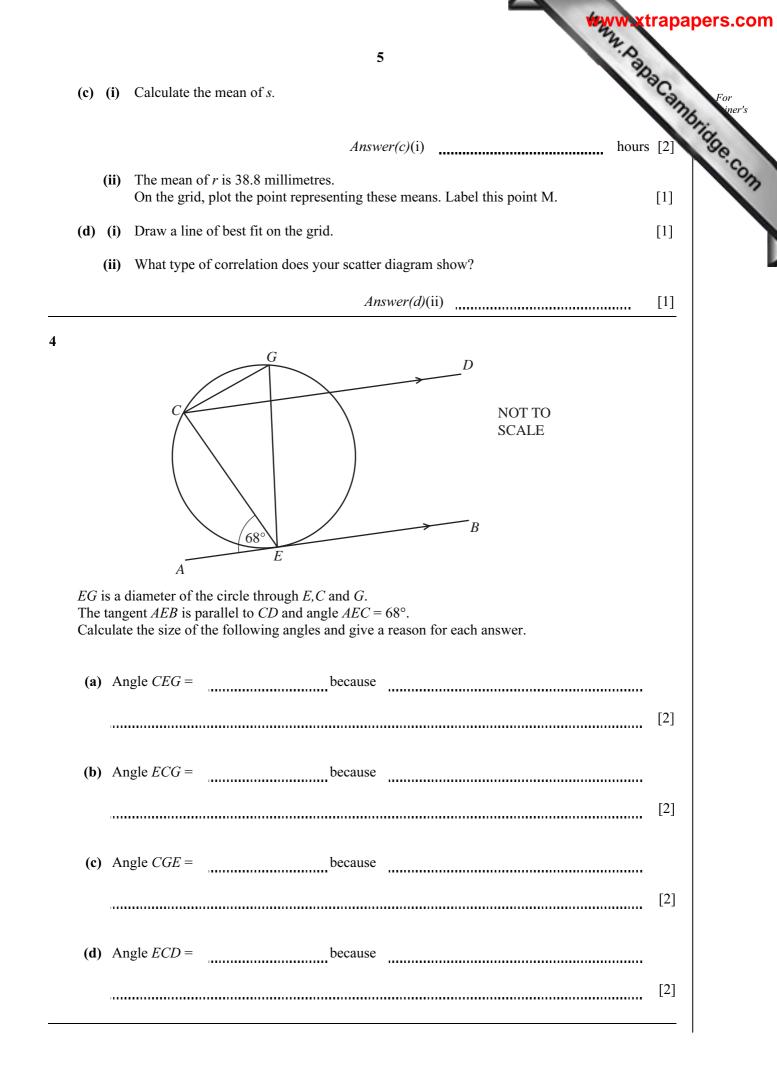
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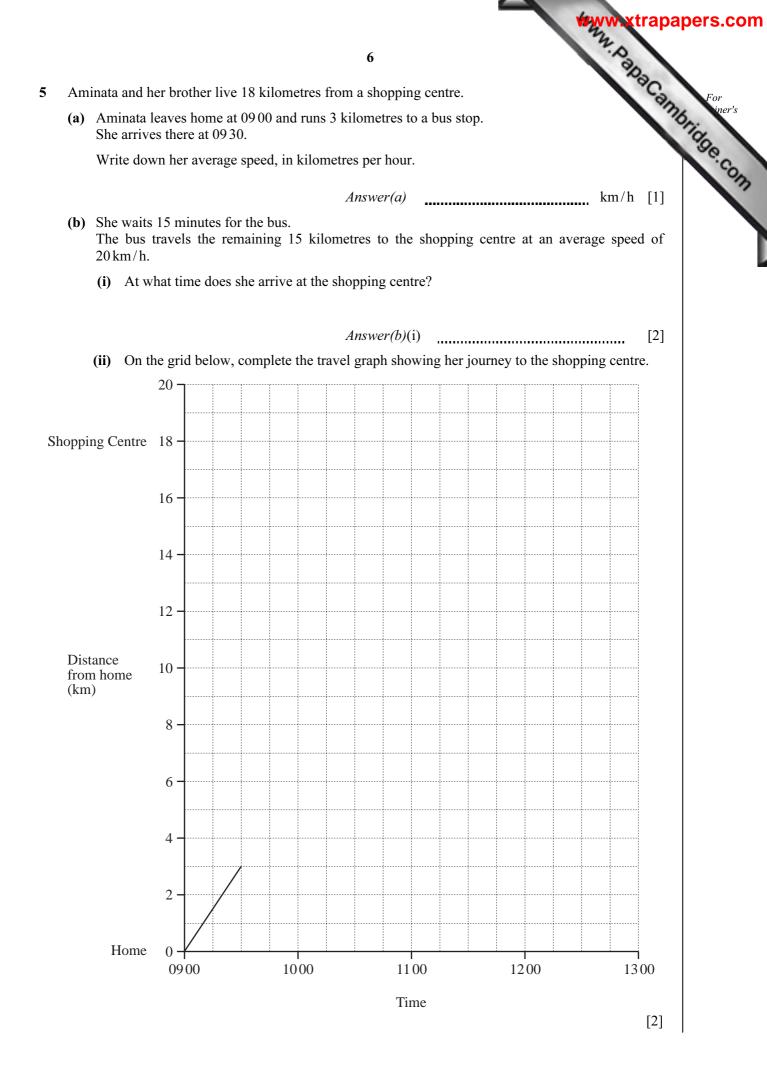
The table below shows the average daily sunshine, s, and the total monthly rainfall, r, for 3

4

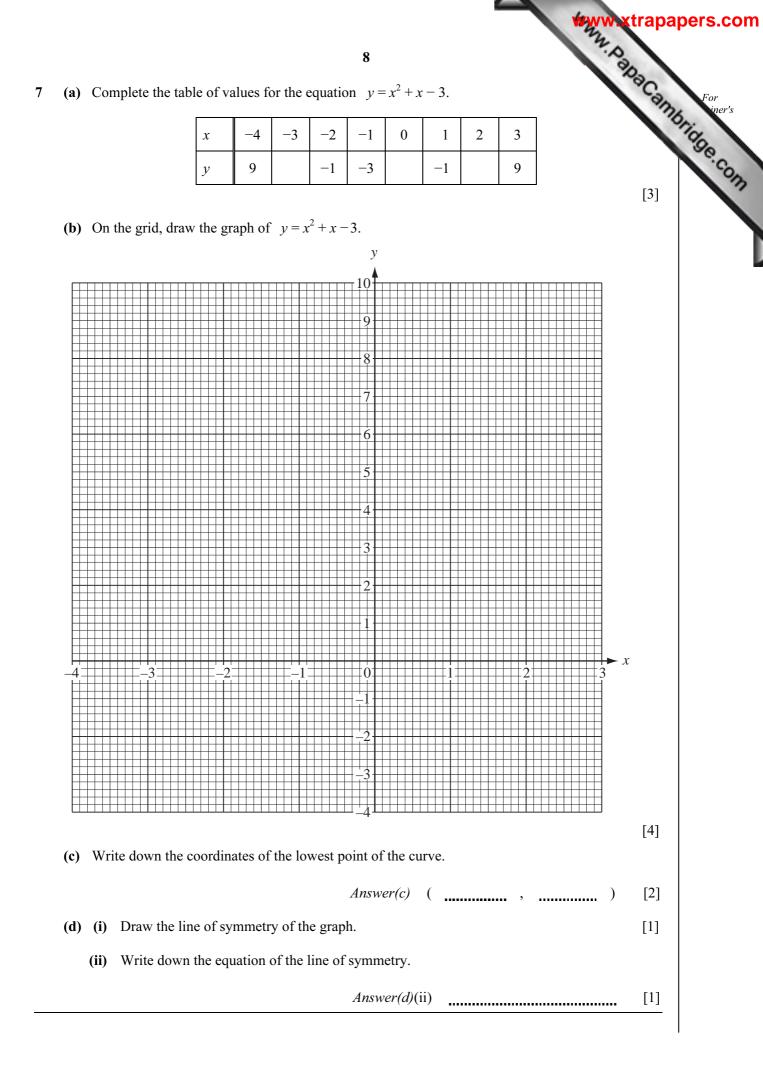
[3]

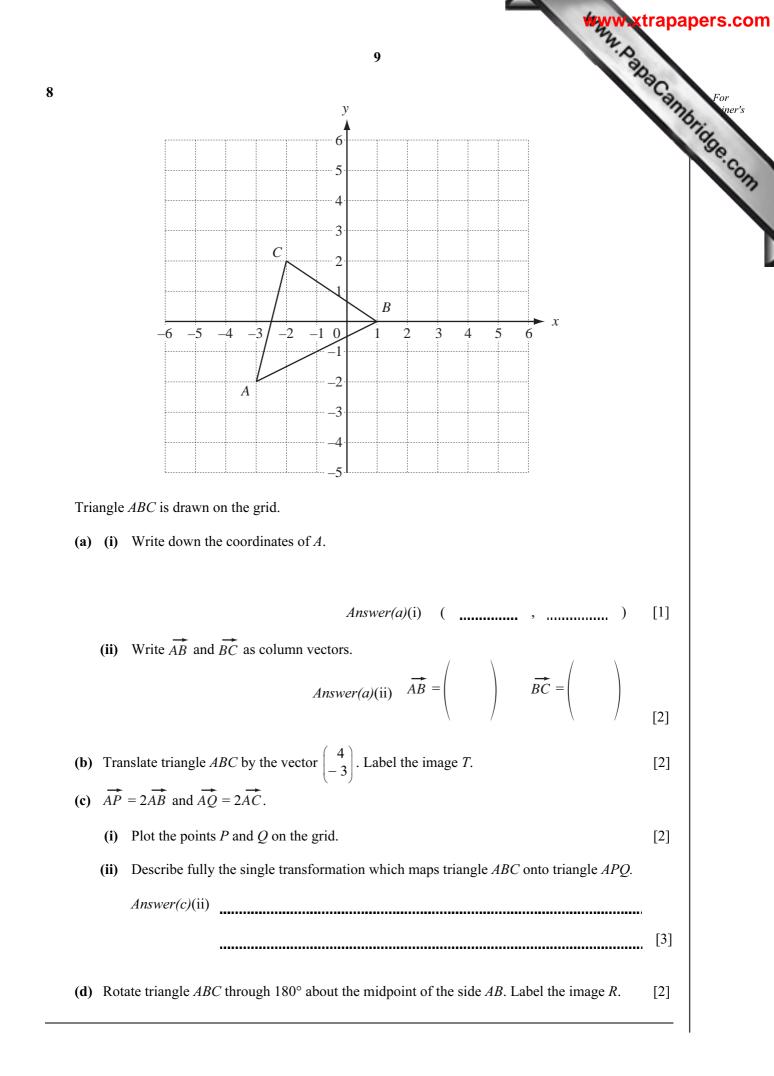
S 12

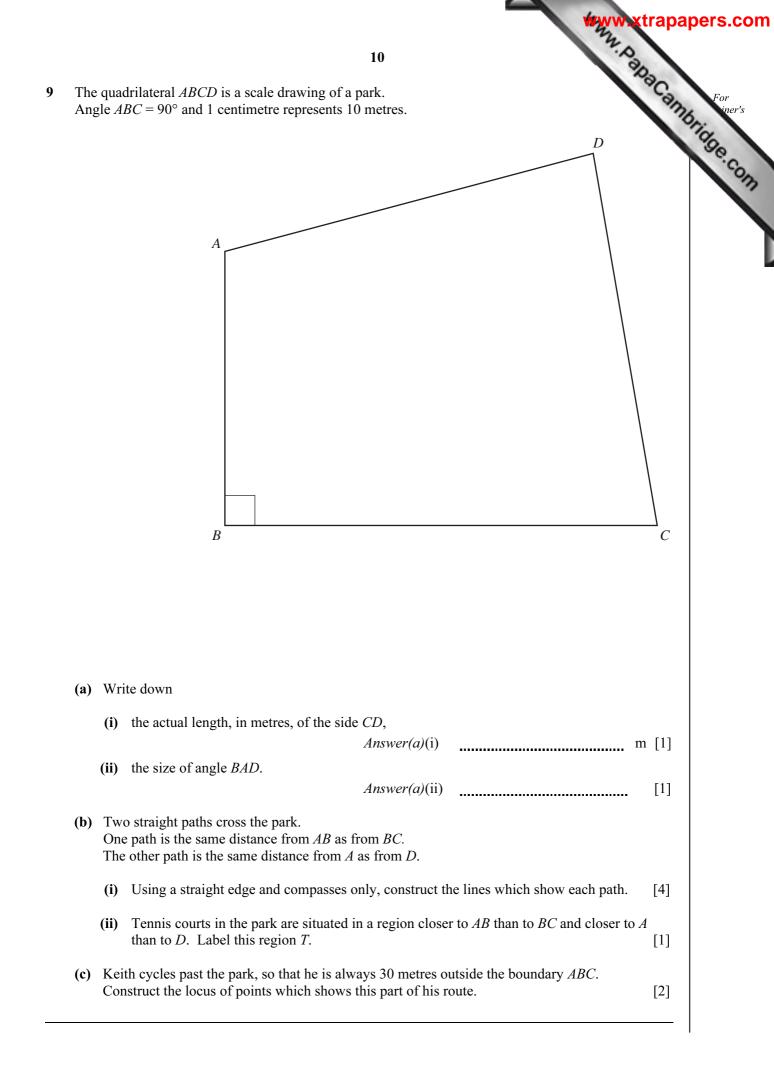


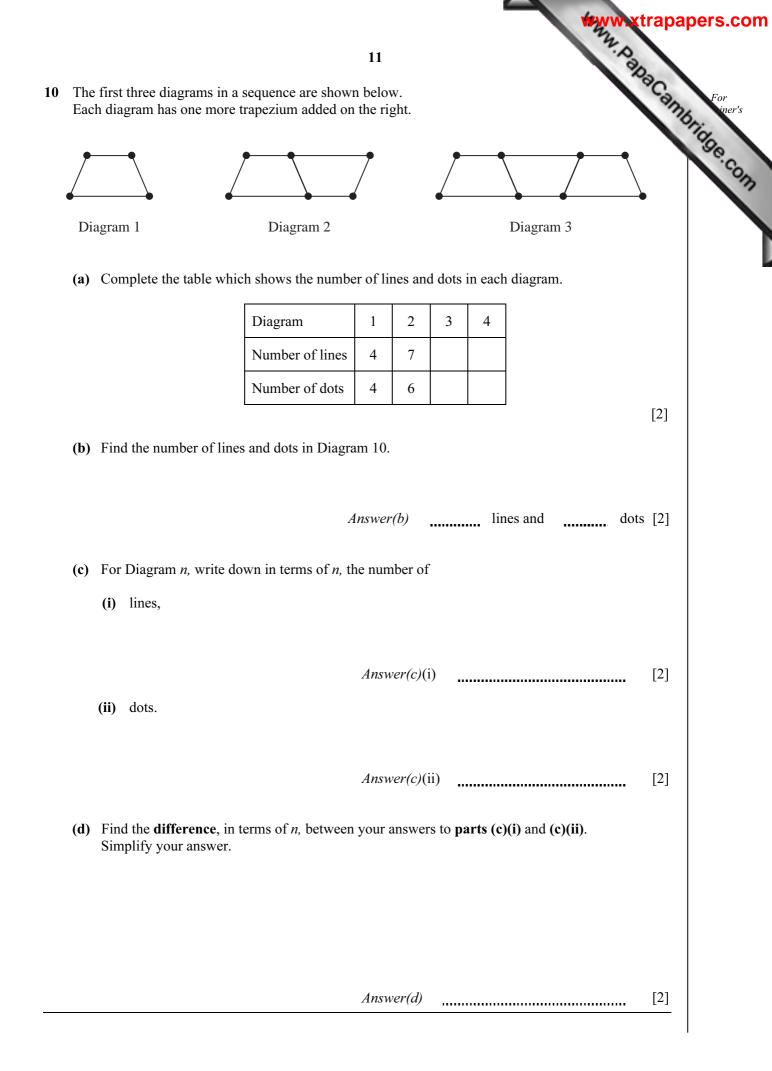


		Martin Martin A	trapa
		7	
(c)		7 brother leaves home at 1115. travels to the shopping centre by car at an average speed of 54 km/h. Work out how long, in minutes, he takes to travel to the shopping centre. Answer(c)(i) minutes	Can
	(i)	Work out how long, in minutes, he takes to travel to the shopping centre.	
		Answer(c)(i) minutes	[1]
	(ii)	Show his journey on the grid.	[1]
(d)		inata and her brother leave the shopping centre at 1200. y travel home by car and arrive at 1245.	
	(i)	Show their journey home on the grid.	[1]
	(ii)	Calculate the average speed of their journey home.	
		Answer(d)(ii) km/h	[2]
(a)		2y = 75 - 7x	
	(i)	Find y when $x = 7$.	
		Answer(a)(i) $y =$	[2]
	(ii)	Find x when $y = 6$.	[-]
		Answer(a)(ii) x =	[2]
(b)	Ma	ke x the subject of the equation $2y = 75 - 7x$.	
		Answer(b) x =	[2]
(c)	Sol	we these simultaneous equations. $4x - x = 45$	
		4x - y = 45 $7x + 2y = 75$	
		Answer(c) $x =$	
		y =	[3]
		у ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[-]











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