

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME				
	CENTRE NUMBER		CANDIDATE NUMBER		
*	MATHEMATICS		0580/11		
5 9 5 5 7 7 0 2 7 *	Paper 1 (Core)		May/June 2010 1 hour		
	Candidates answer on the Question Paper.				
	Additional Materia	als: Electronic Calculator Geometrical Instruments	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 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.

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 56.

This document consists of 8 printed pages.



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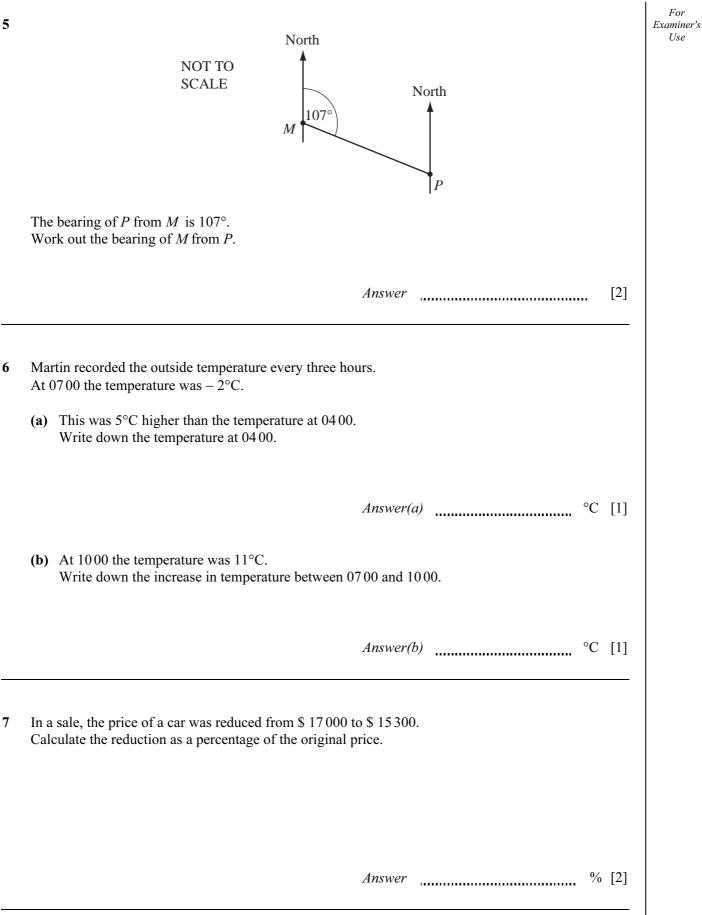
1 A ferry to Crete leaves at 0730. Examiner's The journey takes 2 hours and 48 minutes. Work out the time when the ferry arrives in Crete. [1] Answer 2 (a) Write the following in order, starting with the smallest. $0.43 \qquad \frac{4}{9}$ 41% *Answer(a)* < [1] (b) Only one of the following statements is correct. $0.3 < \frac{1}{3}$ $4^2 > 16$ $\sin 30^\circ \neq 0.5$ [1] Put a ring around the **correct** statement. 3 In a group of 35 students, 14 go to school by bus. Write down the probability that a student, chosen at random, does not go to school by bus. Give your answer as a fraction in its lowest terms. [2] Answer Write down the equation of the line, parallel to y = 4x + 1, which passes through the point (0, -3). 4 [2] Answer

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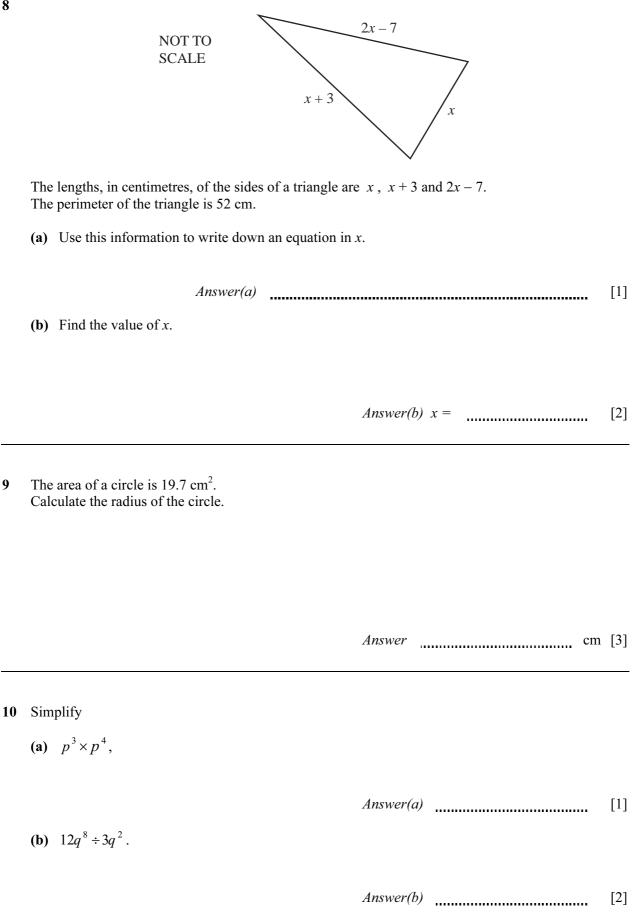
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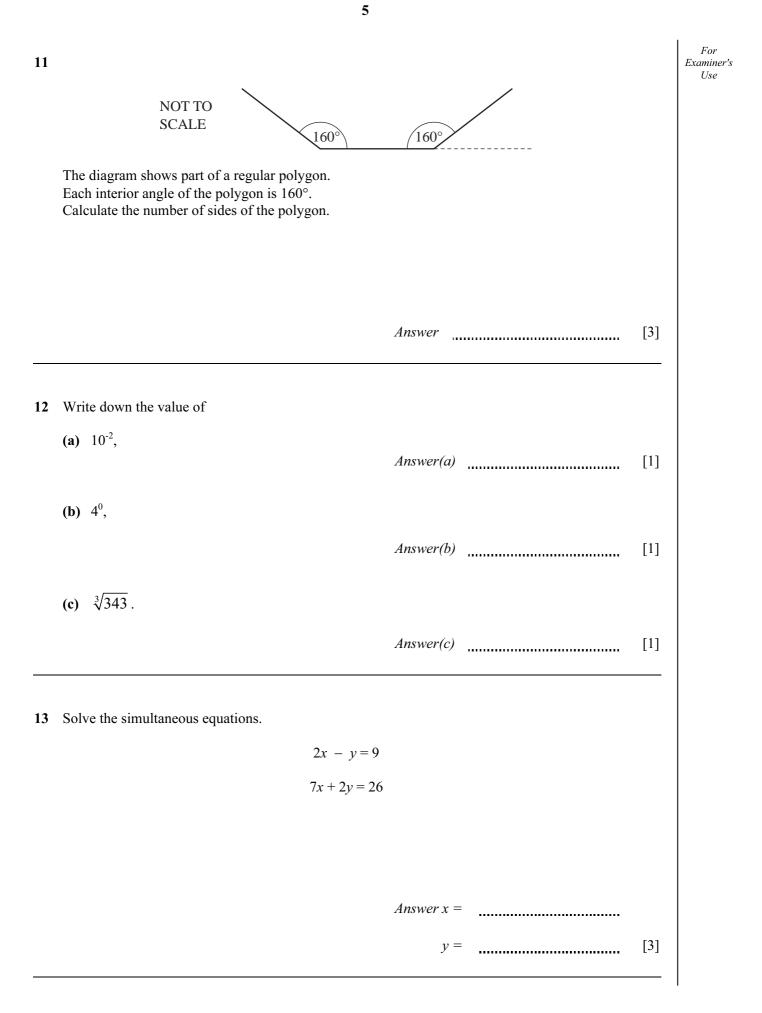
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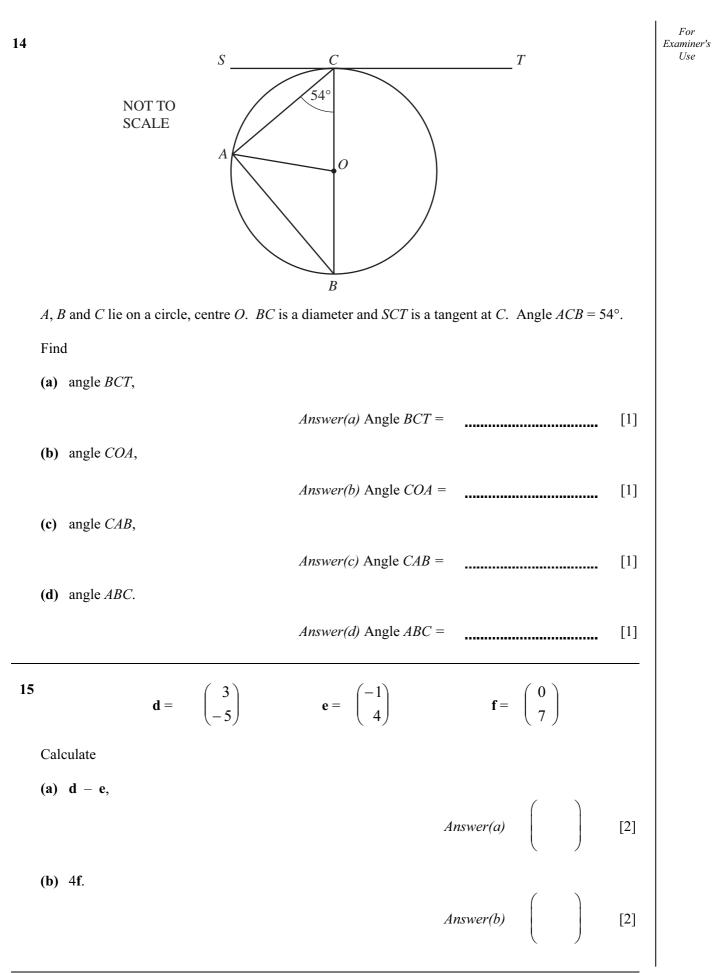
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Questions 18 and 19 are printed on the next page.

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16 Complete the information about each shape.

18	(a) Factorise $3y^2 - 7xy$. (b) Expand the brackets and simplify completely. p(4p+5r)+2r(Answer(a) $6p+r)$		[1]	
		Answer(b)		[3]	
19	Erica is tiling the floor of a rectangular room of length 3 metres and width 2.5 metres. She uses square tiles of side 25 centimetres.				
	(a) Calculate				
	(i) how many tiles will fit along the length of t	(i) how many tiles will fit along the length of the room,			
	(ii) how many tiles she will need altogether.	Answer(a)(i)		[1]	
	(ii) now many thes she will need an gettier.				
		Answer(a)(ii)		[2]	
	(b) Work out the area of one tile				
	(i) in square centimetres,				
	(ii) in square metres.	Answer(b)(i)	cm ²	[1]	
		Answer(b)(ii)	m ²	[1]	

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