

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME						
	CENTRE NUMBER		CANDIDATE NUMBER				
* 0 5	MATHEMATICS		0580/11				
955	Paper 1 (Core)		May/June 2010 1 hour				
7	Candidates answer on the Question Paper.						
0 2 7 *	Additional Materials:	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.

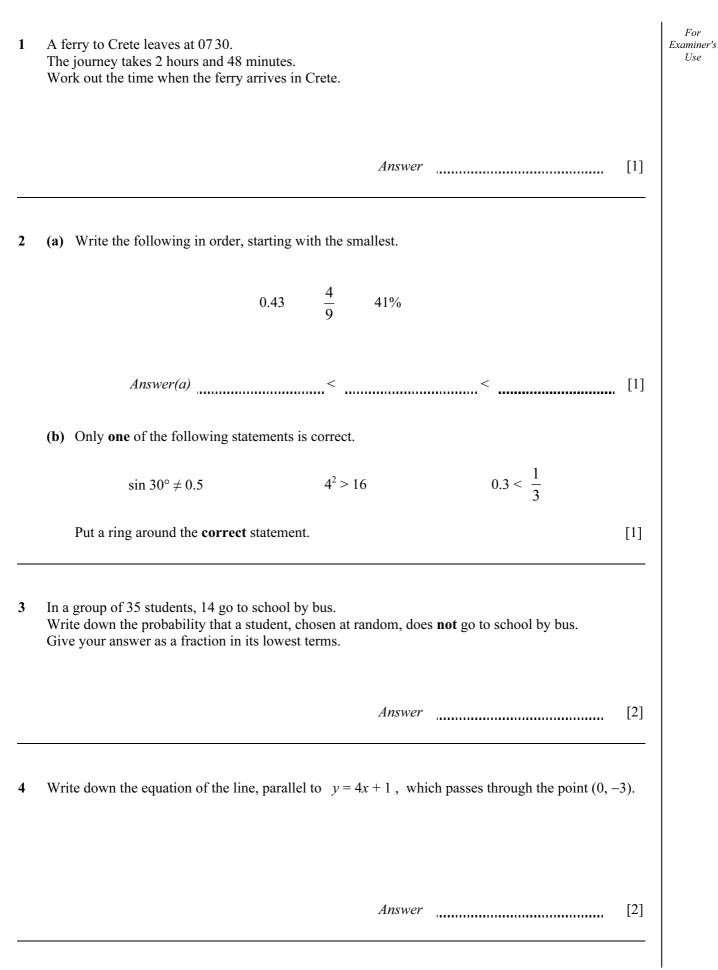
For π , use either your calculator value or 3.142.

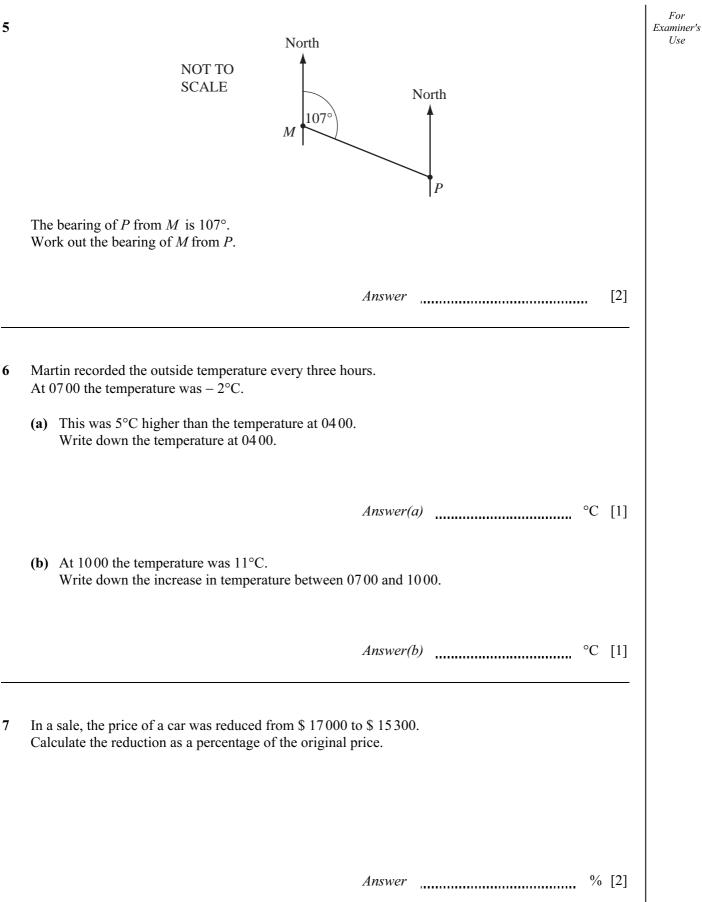
At the end of the examination, fasten all your work securely together.

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.







For

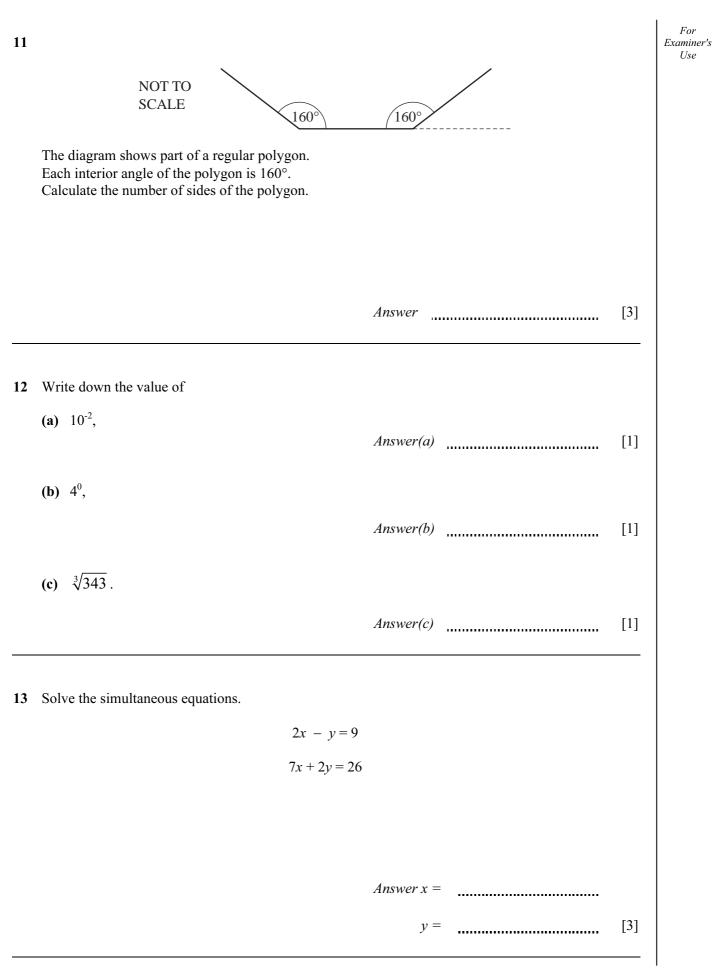
Use

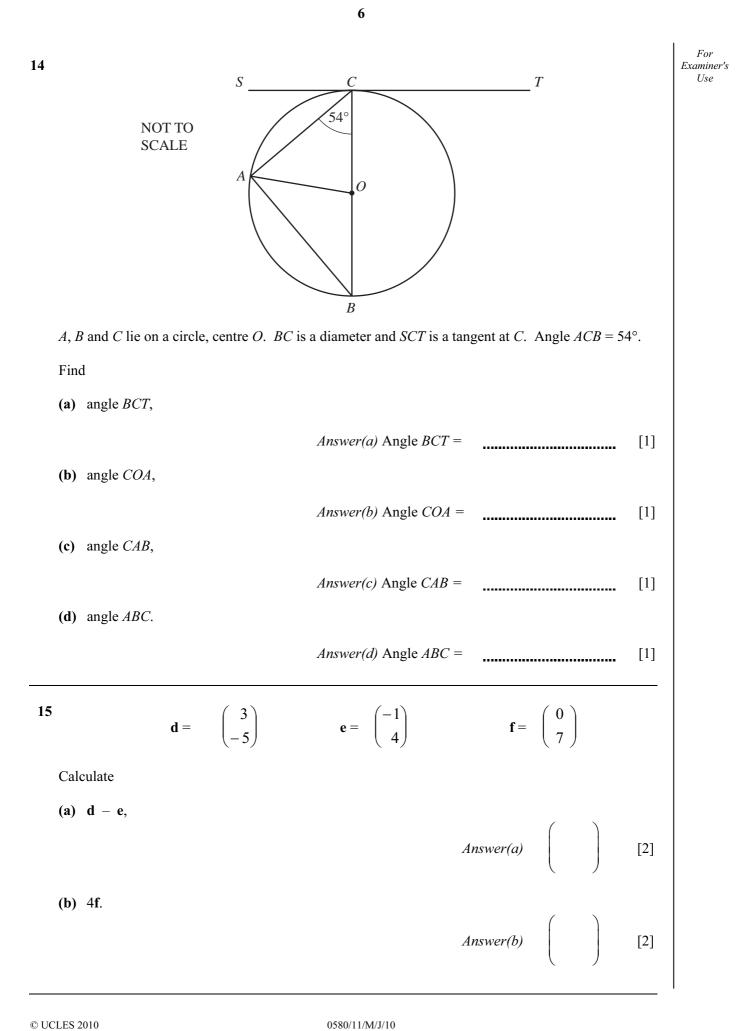
8	NOT TO SCALE $x+3$ x x The lengths, in centimetres, of the sides of a triangle are x , $x+3$ and $2x-7$.								
	The perimeter of the triangle is 52 cm.(a) Use this information to write down an equation in <i>x</i>.								
	Answer(a) [[1]							
	(b) Find the value of x.								
	$Answer(b) \ x = $	[2]							
9	The area of a circle is 19.7 cm^2 . Calculate the radius of the circle.								
	Answer cm [[3]							
10	Simplify								
	(a) $p^3 \times p^4$,								
	(b) $12q^8 \div 3q^2$.	[1]							
	Answer(b) [[2]							

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For

Examiner's Use





Questions 18 and 19 are printed on the next page.

16 Complete the information about each shape.

For Examiner's Use

18	(a)	Facto	orise	3 <i>y</i> ² -	7 <i>xy</i> .			Answer(a)	 	[1]	For Examiner's Use
	(b)	Expar	nd the	e bracke	ts and sim	plify comp $p(4p +$	bletely. $5r$) + $2r$ (6_{I}	(p+r)			
								Answer(b)	 	[3]	
19	She	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									
						along the l	ength of the gether.	room, Answer(a)(i)	 	[1]	
		W/1		1	- C 49			Answer(a)(ii)	 	[2]	
	(D)	(i) i	n squ		of one tile timetres, res.	3		Answer(b)(i)	 cm ²	[1]	
		. /						Answer(b)(ii)	 m ²	[1]	

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