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	UNIVERSITY OF CAMBRIDGE IN International General Certificate of	
CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
MATHEMATIC	3	0580/
Paper 1 (Core)		May/June 20
		1 ho
Candidates ans	wer on the Question Paper.	
Additional Mate	rials: 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.

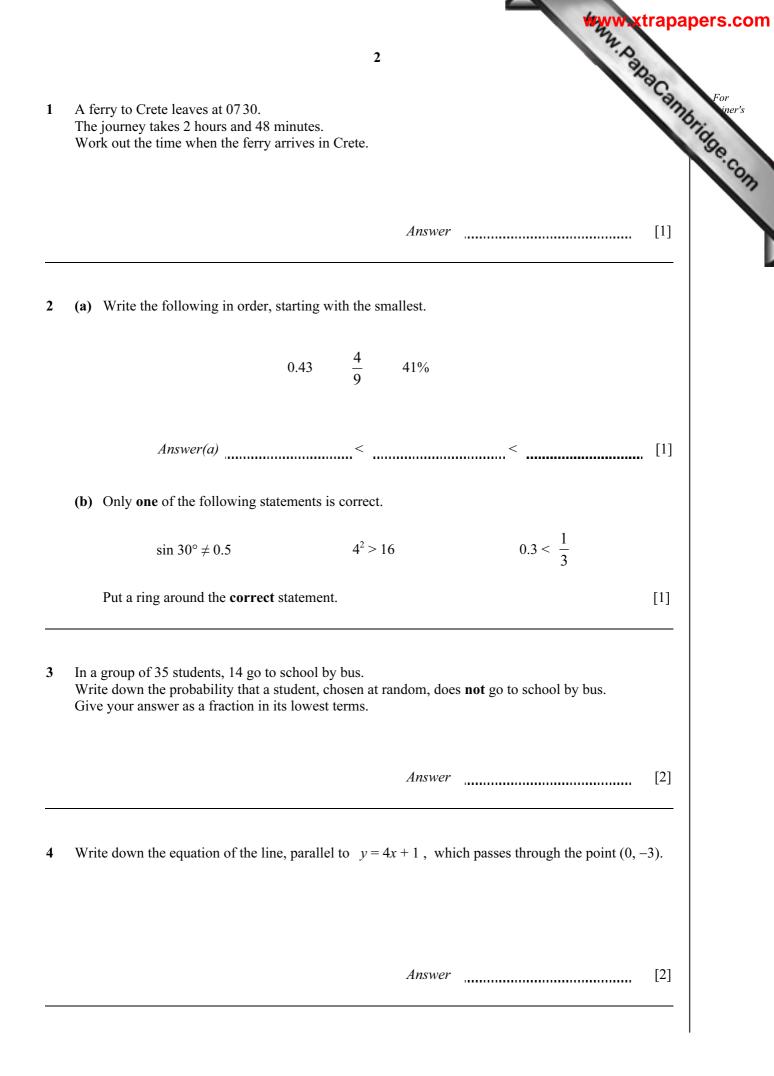
For  $\pi$ , use either your calculator value or 3.142.

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 56.

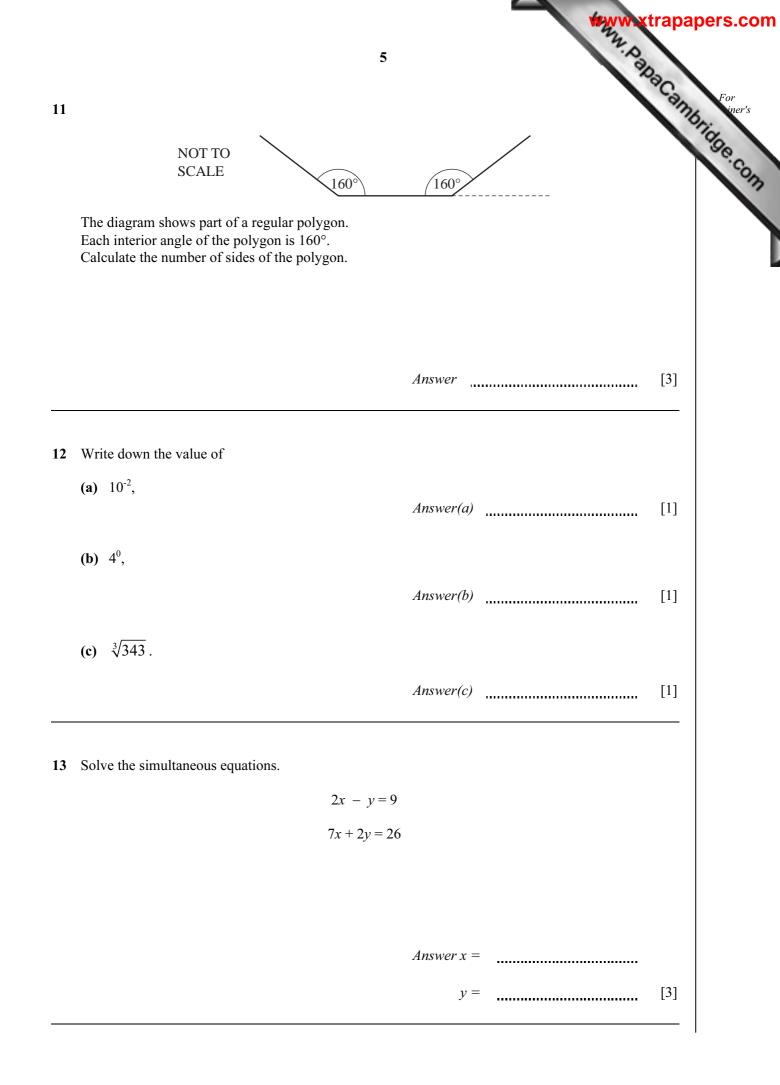
This document consists of 8 printed pages.

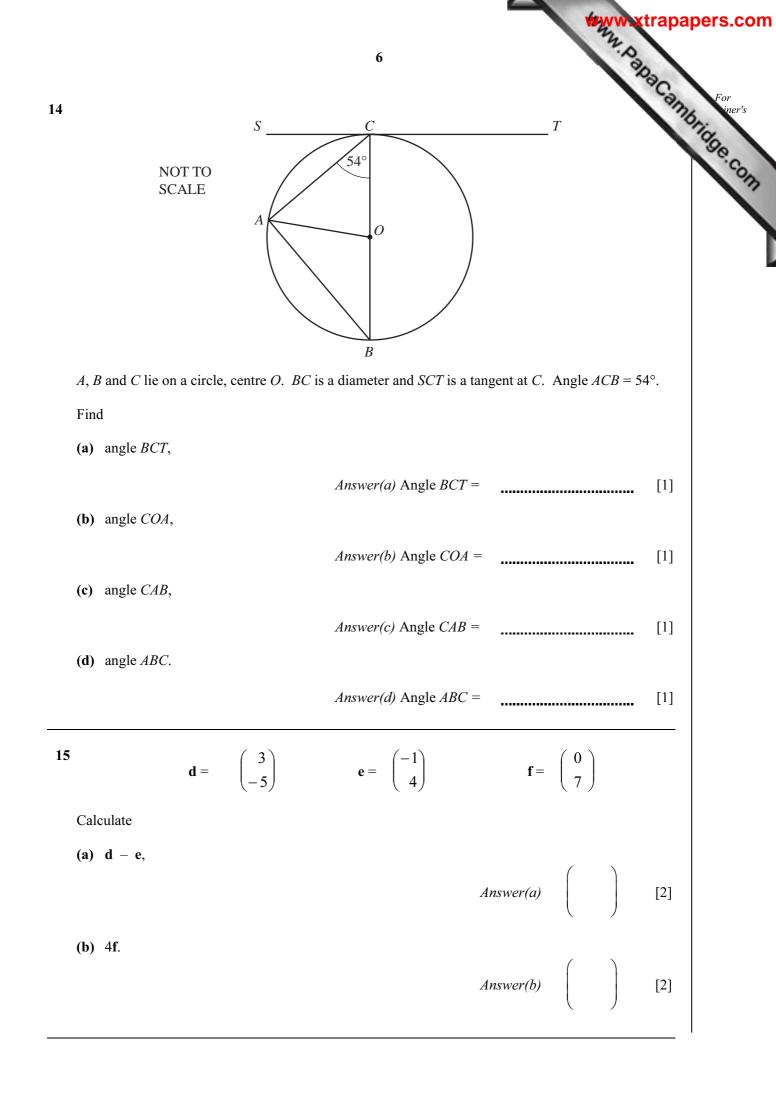


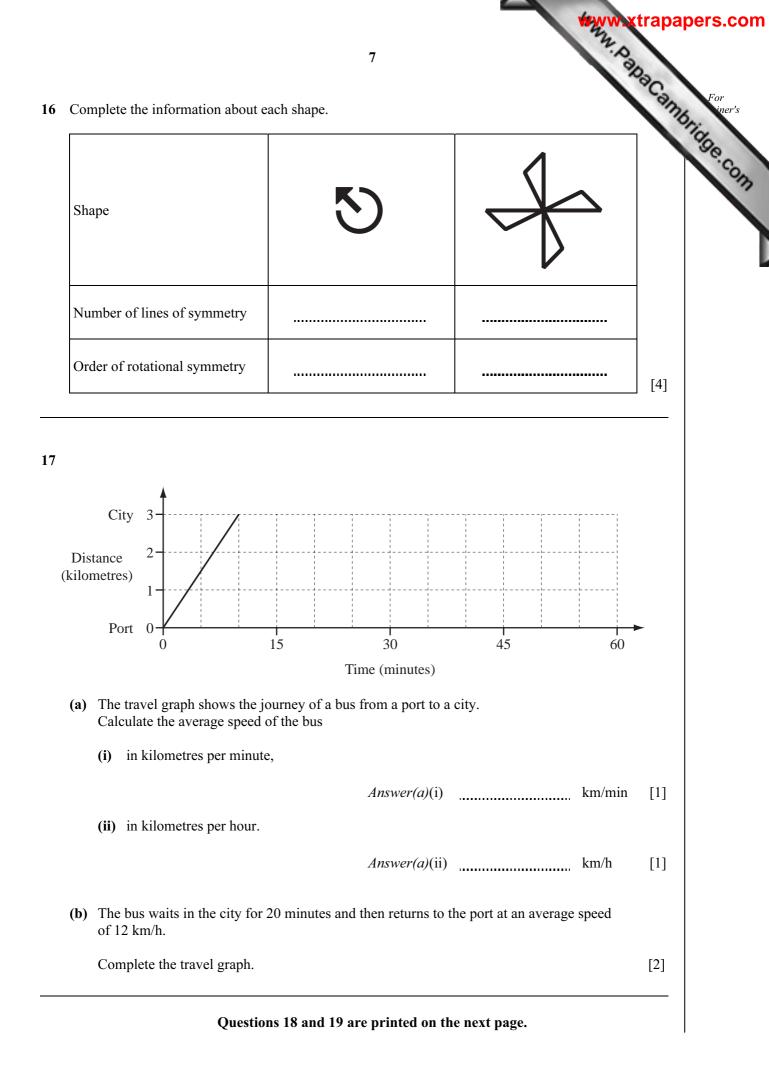


NOT TO SCALE	3 North M 107° North
The bearing of $P$ from $M$ is 107°. Work out the bearing of $M$ from $P$ .	Answer [2]
Martin recorded the outside temperatur At 0700 the temperature was – 2°C.	re every three hours.
<ul><li>(a) This was 5°C higher than the temp Write down the temperature at 04</li></ul>	
	00. <i>Answer(a)</i> °C [1] C.
<ul><li>Write down the temperature at 04</li><li>(b) At 1000 the temperature was 11°C</li></ul>	00. <i>Answer(a)</i> °C [1] C.
<ul><li>Write down the temperature at 04</li><li>(b) At 1000 the temperature was 11°C</li></ul>	00. Answer(a) °C [1] C. rature between 07 00 and 10 00. Answer(b) °C [1] d from \$ 17 000 to \$ 15 300.
<ul> <li>Write down the temperature at 04</li> <li>(b) At 1000 the temperature was 11°C Write down the increase in temperature was 11°C Write down the increase in temperature was reduced by the price of a car w</li></ul>	00. Answer(a) °C [1] C. rature between 07 00 and 10 00. Answer(b) °C [1] d from \$ 17 000 to \$ 15 300.

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







	8		Mary B	trapapers.
18	(a) Factorise $3y^2 - 7xy$ .			(trapapers.c
		Answer(a)		[1] <sup>10</sup> 3e.g
	(b) Expand the brackets and simplify completely.			
	p(4p+5r)+2r	(6p+r)		
		Answer(b)		[3]
19	Erica is tiling the floor of a rectangular room of lengt	th 3 metres and w	idth 2.5 metres.	
	She uses square tiles of side 25 centimetres.			
	(a) Calculate			
	(i) how many tiles will fit along the length of t	the room,		
		Answer(a)(i)		[1]
	(ii) how many tiles she will need altogether.			
		Answer(a)(ii)		[2]
		Answer(a)(ii)		[2]
	(b) Work out the area of <b>one tile</b>	Answer(a)(ii)		[2]
	<ul><li>(b) Work out the area of one tile</li><li>(i) in square centimetres,</li></ul>	Answer(a)(ii)		[2]
	(i) in square centimetres,		cm <sup>2</sup>	
	(i) in square centimetres,	Answer(b)(i)		

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