	UNIVERSITY OF CAMBRIDGE INTERNA International General Certificate of Second	TIONAL EXAMINATIONS dary Education	www.papacambro
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
MATHEMATIC	5		0580/11
Paper 1 (Core)			May/June 2011
			1 hour
Candidates ans	wer on the Question Paper.		
Additional Mate	rials: Electronic calculator Mathematical tables (optional)	Geometrical instruments 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.

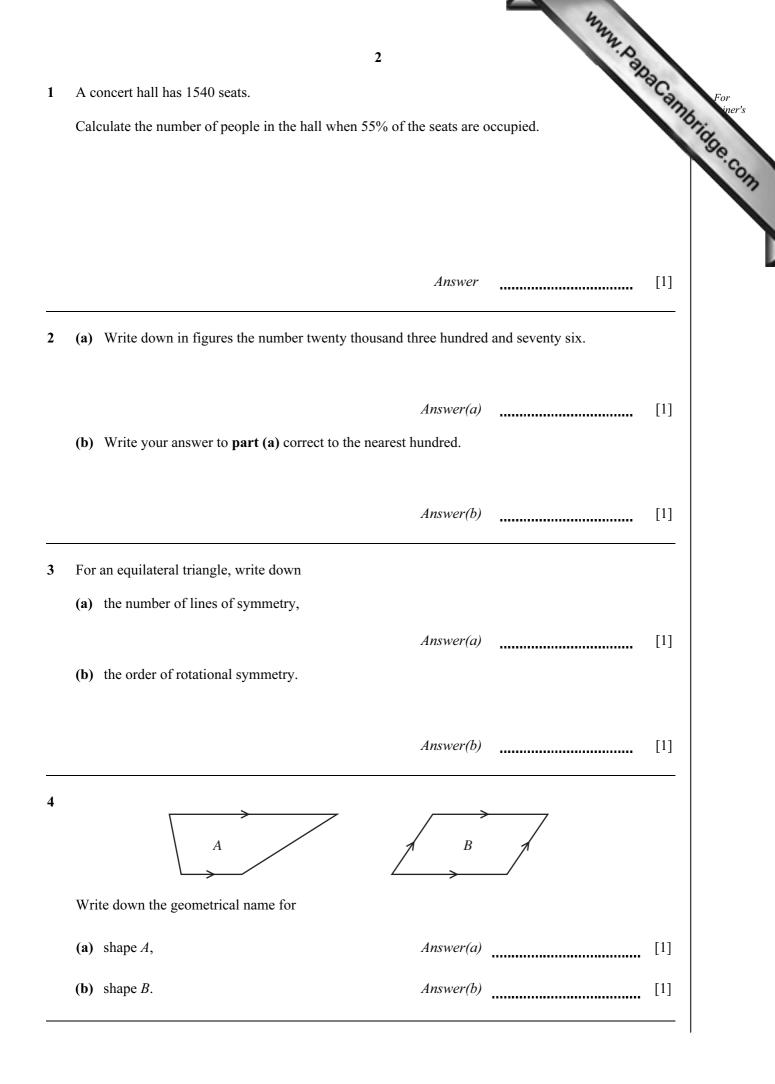
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

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

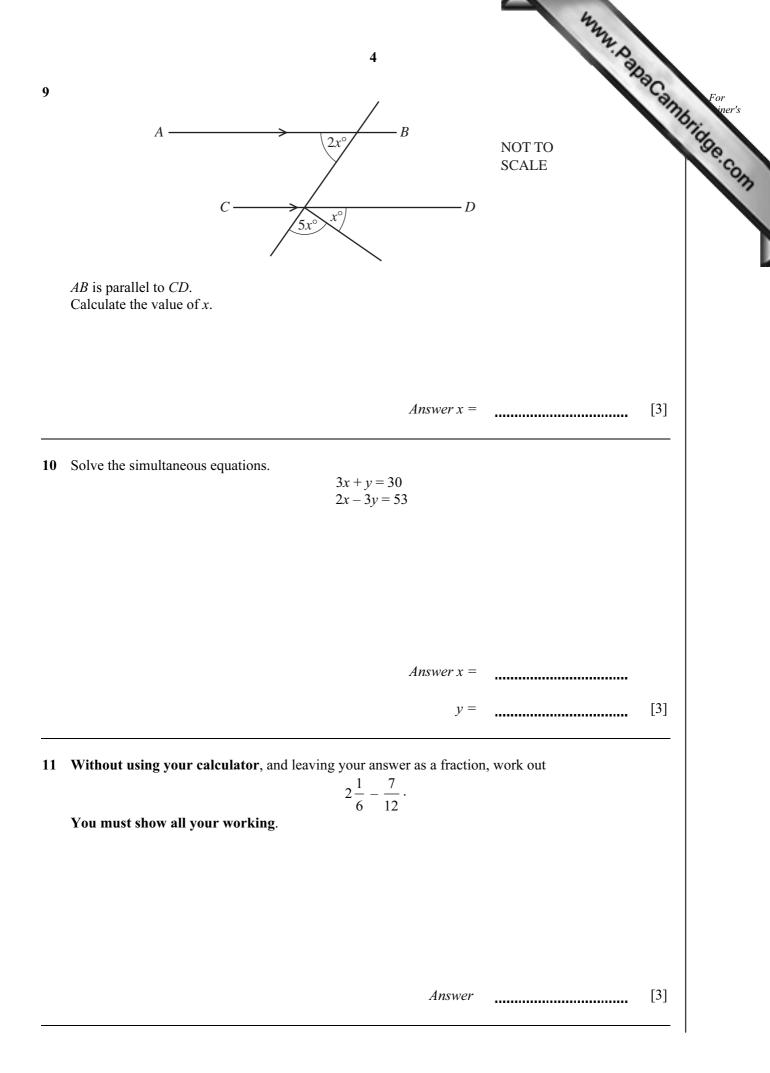
The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

This document consists of **10** printed pages and **2** blank pages.





culate how much money Naomi receives. <i>Answer</i> \$		my	
$Answer \$ \dots [2]$ culate the area of a circle with radius 6.28 centimetres. $Answer \dots cm^2 [2]$ scale on a map is 1 : 20 000. culate the actual distance between two points which are 2.7 cm apart on the map. e your answer in kilometres. $Answer \dots km [2]$ Find <i>m</i> when $4^m \times 4^2 = 4^{12}$. $Answer(a) m = \dots [1]$ Find <i>p</i> when $6^p \div 6^7 = 6^2$.		3	AR
$Answer \ (2)$ eulate the area of a circle with radius 6.28 centimetres. $Answer \ (2)$ scale on a map is 1 : 20 000. eulate the actual distance between two points which are 2.7 cm apart on the map. e your answer in kilometres. $Answer \ (2)$ Find <i>m</i> when $4^m \times 4^2 = 4^{12}$. $Answer(\alpha) m = \ (1)$ Find <i>p</i> when $6^p \div 6^7 = 6^2$.	Mark and Naomi share \$600 in the ratio	Mark : Naomi = $5 : 1$.	a Call
$Answer \$ \dots [2]$ culate the area of a circle with radius 6.28 centimetres. $Answer \dots cm^2 [2]$ scale on a map is 1 : 20 000. culate the actual distance between two points which are 2.7 cm apart on the map. e your answer in kilometres. $Answer \dots km [2]$ Find <i>m</i> when $4^m \times 4^2 = 4^{12}$. $Answer(a) m = \dots [1]$ Find <i>p</i> when $6^p \div 6^7 = 6^2$.	Calculate how much money Naomi receiption	ives.	
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		Answer(a) m =	[1]
Answer(b) p = [1]	(b) Find <i>p</i> when $6^p \div 6^7 = 6^2$.		
Answer(b) p = [1]			
		Answer(b) $p =$	[1]
		$m_{bwer(0)}p =$	•••• L ¹ J



			42
		5	N.D.
12	(a) Write 1738.279 correct to 1 decimal place.		Paca
			MMM. PapaCall
		Answer(a)	[1]
	(b) Write 28700 in standard form.		
		Answer(b)	[1]
	(c) The mass of a ten-pin bowling ball is 7 kg to	he nearest kilogram.	
	Write down the lower bound of the mass of the	e ball.	
		Answer(c)	kg [1]
13	Paulo invests \$3000 at a rate of 4% per year comp		
	Calculate the total amount Paulo has after 2 years Give your answer correct to the nearest dollar.		
		Answer \$	[3]
14	A train leaves Barcelona at 2128 and takes 10 hou		
14	A train leaves Barcelona at 21 28 and takes 10 hou (a) Calculate the time the next day when the train	rs and 33 minutes to reach Pa	
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14		rs and 33 minutes to reach Pa	
14		rs and 33 minutes to reach Pa	
14		rs and 33 minutes to reach Pa arrives in Paris. <i>Answer(a)</i>	ris.
14	(a) Calculate the time the next day when the train	rs and 33 minutes to reach Pa arrives in Paris. <i>Answer(a)</i>	ris.
14	(a) Calculate the time the next day when the train(b) The distance from Barcelona to Paris is 827 k	rs and 33 minutes to reach Pa arrives in Paris. <i>Answer(a)</i>	ris.
14	(a) Calculate the time the next day when the train(b) The distance from Barcelona to Paris is 827 k	rs and 33 minutes to reach Pa arrives in Paris. <i>Answer(a)</i>	ris.
14	(a) Calculate the time the next day when the train(b) The distance from Barcelona to Paris is 827 k	rs and 33 minutes to reach Pa arrives in Paris. <i>Answer(a)</i>	ris.
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14	(a) Calculate the time the next day when the train(b) The distance from Barcelona to Paris is 827 k	rs and 33 minutes to reach Pa arrives in Paris. <i>Answer(a)</i>	ris. [1]

15 (a) The table shows part of a railway timetable.

		6			илли, рара 1552 1601	
le shows par	t of a railway timeta arrival time	able. 1258	13 56	14 54	15 52	ambrido
Station	departure time	1307	1405	1503	1601	20.9

Write down how many minutes each train waits.

Answer(a)(i) min [1]

(ii) Janine is at Peartree Station at 3 pm.

At what time does the next train depart?

..... Answer(a)(ii) [1]

(b) The average temperature each month in Moscow and Helsinki is recorded. The table shows this information from January to June.

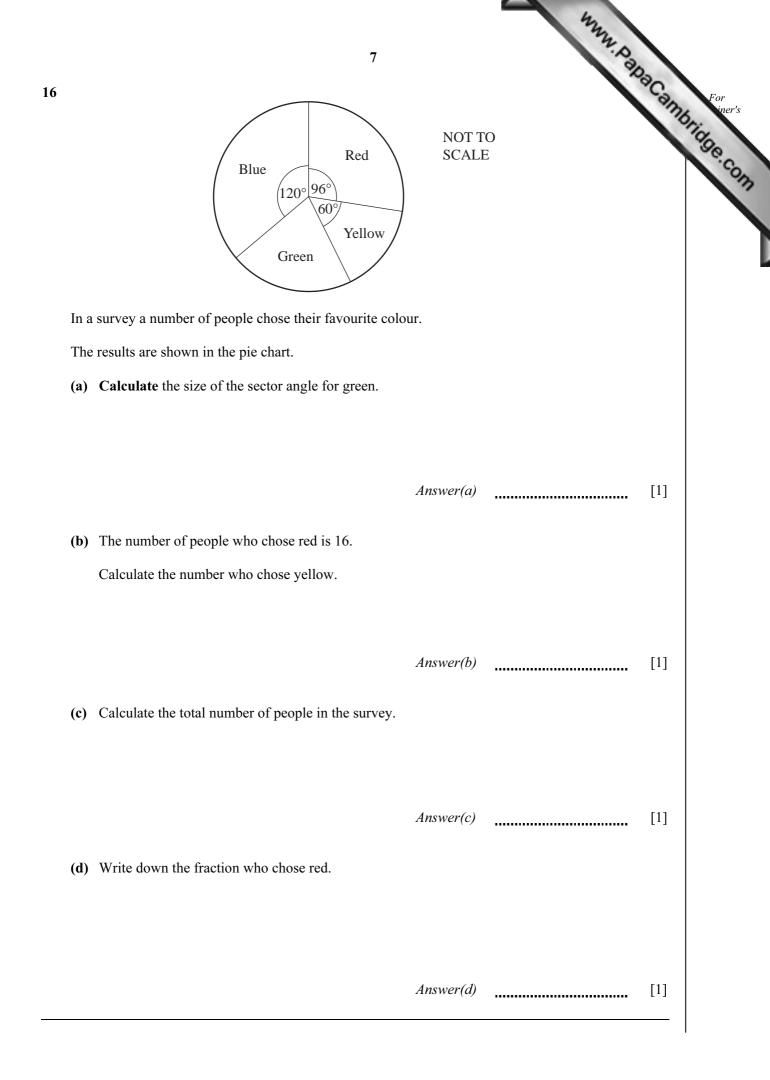
	January	February	March	April	May	June
Temperature in Moscow (°C)	-16	-14	-8	1	8	11
Temperature in Helsinki (°C)	-9	-10	-7	-1	4	10

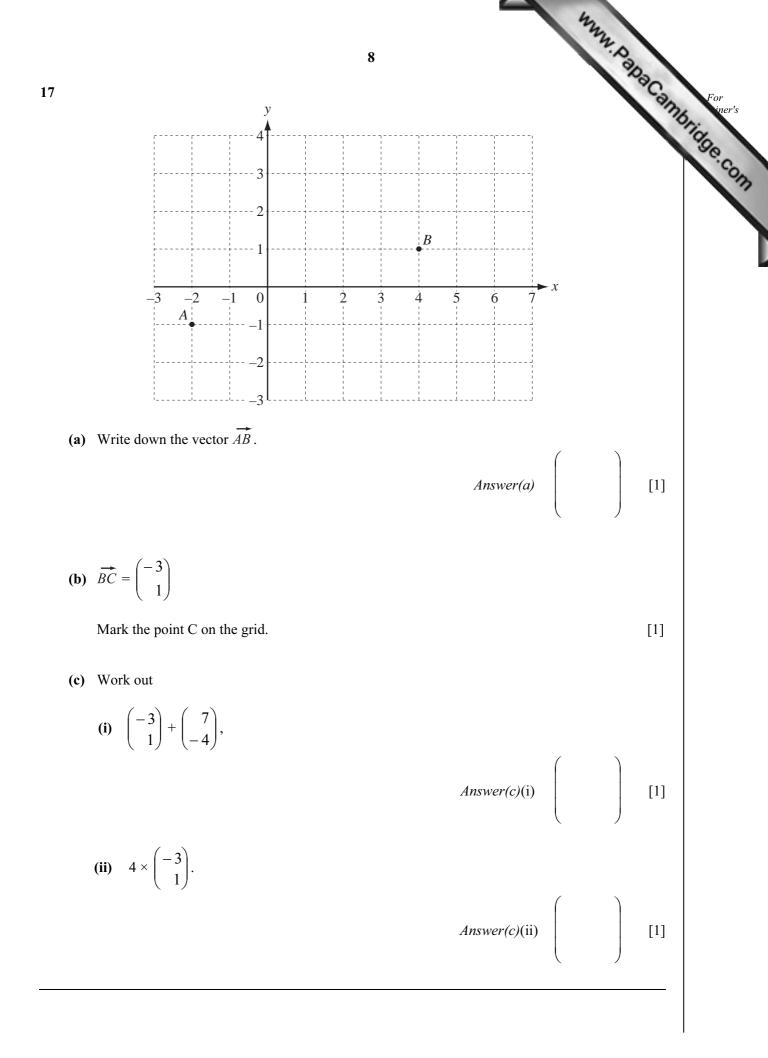
(i) Find the difference in temperature between Moscow and Helsinki in January.

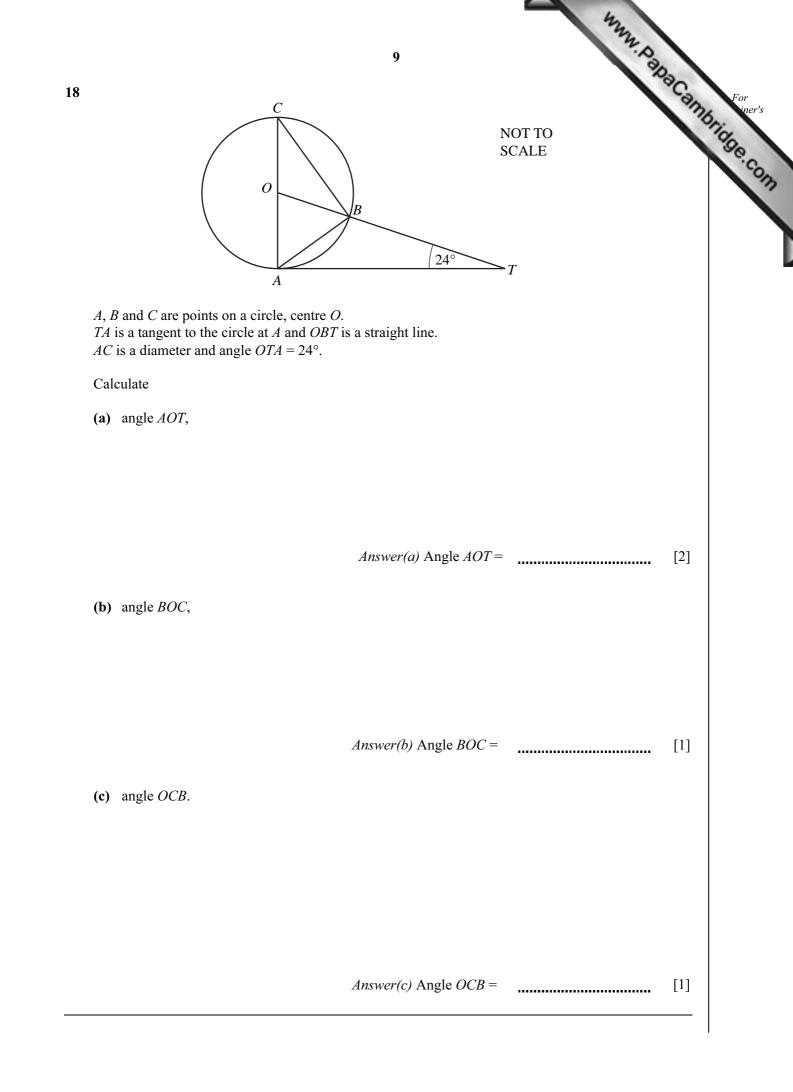
Answer(b)(i) °C [1]

(ii) Find the increase in temperature in Helsinki from March to June.

Answer(b)(ii) °C [1]







			42	
		10	W.P.	
)	Piet, Rob and Sam collect model aeroplanes.Piet has <i>x</i> aeroplanes.Rob has 7 more aeroplanes than Piet.Sam has three times as many aeroplanes as Piet.		MMM. Pox	aCanne
	(a) Write down an expression, in terms of x , for	ſ		
	(i) the number of aeroplanes Rob has,			
		Answer(a)(i)		[1]
	(ii) the number of aeroplanes Sam has.			
		Answer(a)(ii)		[1]
	(b) The total number of aeroplanes is 32.			
	(i) Use the information in part (a) to write	e down an equation in	х.	
	Answer(b)(i)			[1]
	(ii) Solve your equation.			
		Answer(b)(ii) $x =$		[2]
	(c) Write down the number of aeroplanes Rob h	has.		
		Answer(c)		[1]
	(c) Write down the number of aeroplanes Rob h			[2]



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