

2678047

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME									
CENTRE NUMBER		CANDIDATE NUMBER							
MATHEMATICS			0580/13						
Paper 1 (Core)			May/June 2013						
			1 hour						
Candidates answer on the Question Paper.									
Additional Materia	lls: Electronic calculator Tracing paper (optional)	Geometrical instruments							

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 **11** printed pages and **1** blank page.



The table shows the distances by road, in kilometres, between some towns in New Zealand. 1 Examiner's

			4	Han Auckland				
	No		1.	amilton	126			
	"H P	ISTROUTIN	Napic,	300	426			
	R	1011th	415	242	368			
Wellington	Rotorija	319	229	109	235			
USTON	460	356	332	531	657			

Write down the distance between Rotorua and Hamilton.

Answer km [1]

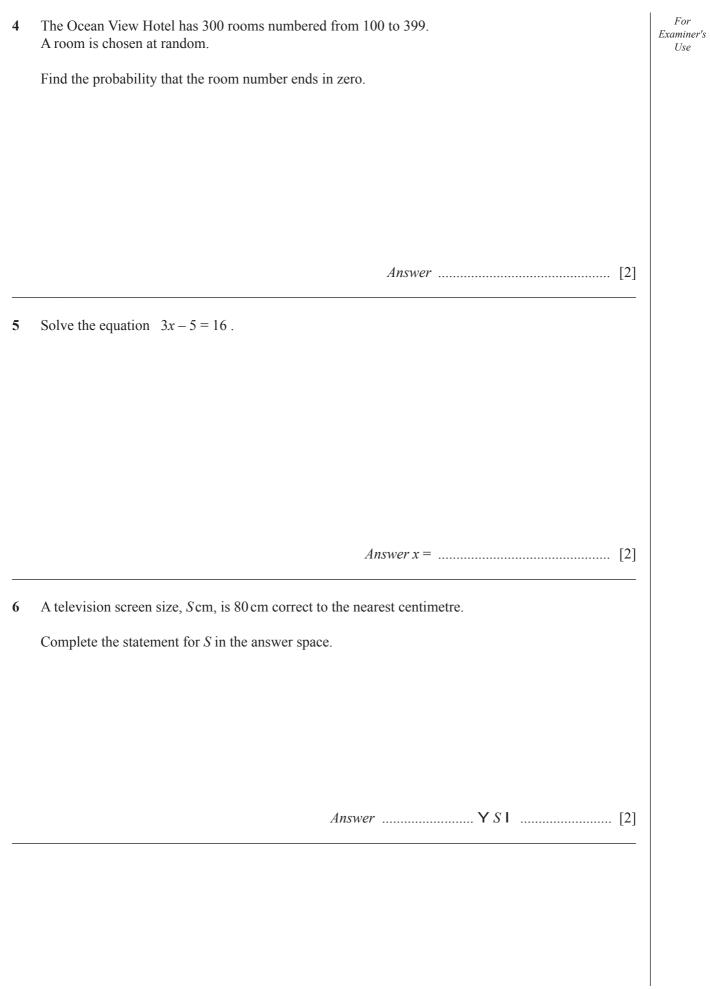
For

Use

Find the value of 1.47^3 . 2 Give your answer correct to 3 decimal places.

3 The time in Lisbon is the same as the time in Funchal. A plane left Lisbon at 08 30 and arrived in Funchal at 10 20. It then left Funchal at 1255 and returned to Lisbon. The return journey took 15 minutes more.

What time did the plane arrive in Lisbon?



Sheila can pay her hotel bill in Euros (€) or Pounds (£).
The bill was €425 or £365 when the exchange rate was £1 = €1.14.

In which currency was the bill cheaper? Show all your working.

For

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Use

8 Without using a calculator, show that $3\frac{3}{5} \div 2\frac{1}{4} = 1\frac{3}{5}$.

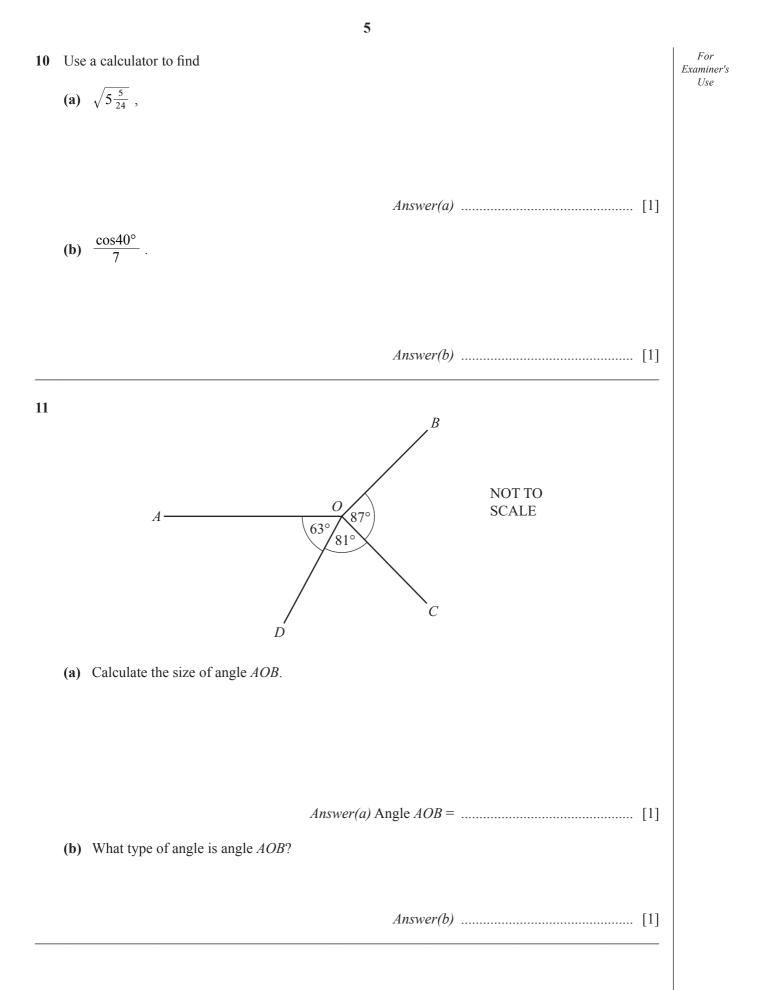
You must show each step of your working.

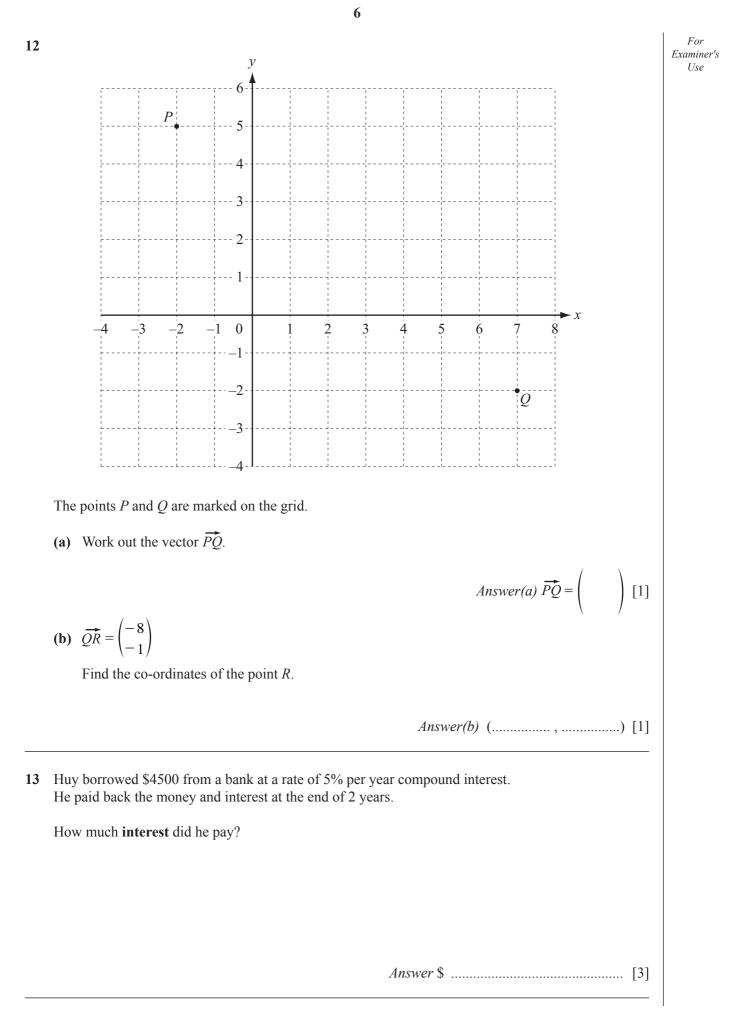
Answer

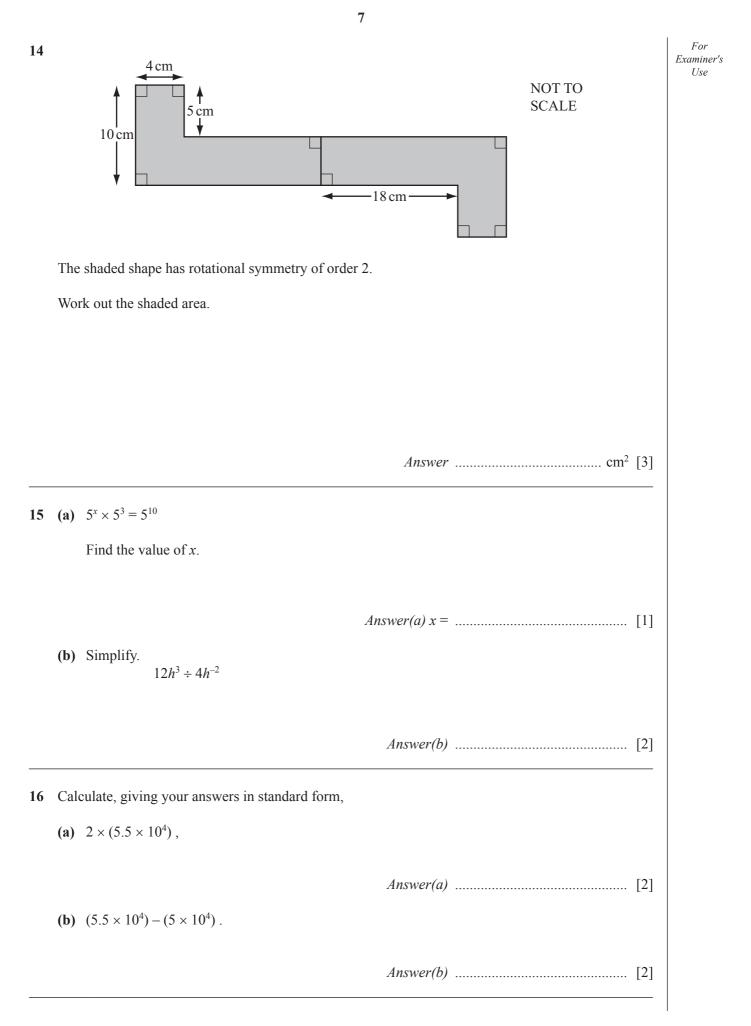
9 Factorise completely.

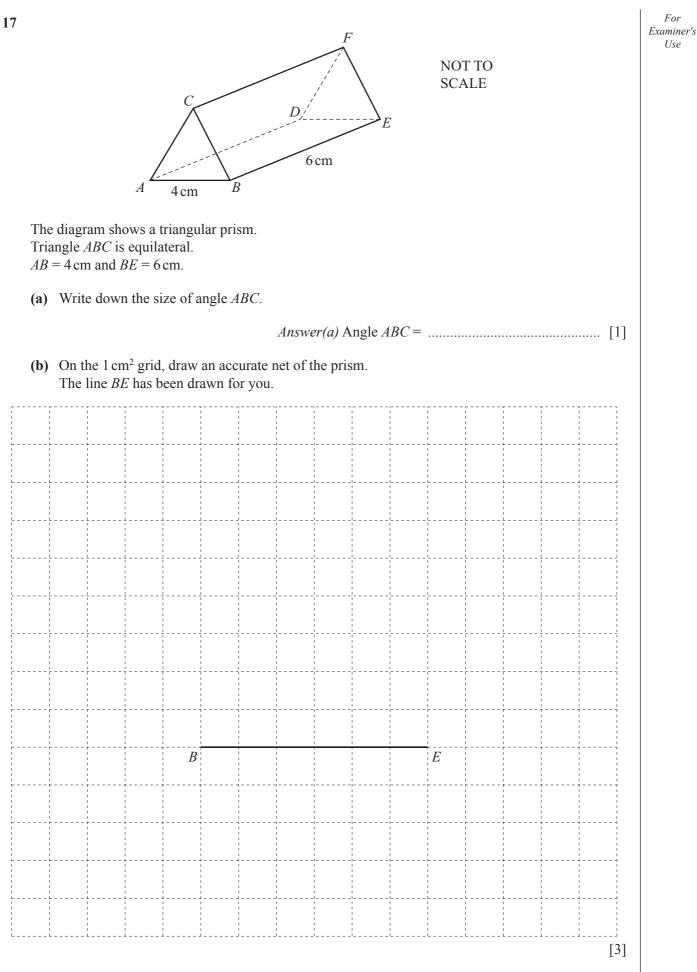
 $6xy^2 - 8y$

[2]









8

Temperature (°C) Number of hot meals		2	4	9	15	21	24	28	27	23	18	10	5	
		38	35	36	24	15	10	4	5	12	20	18	32	
(a) Complete The resu					ave be	een pl	otted 1	for yo	u.	- 1	·			,
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b) On the gc) What tur						ton di	0.000000	abarr	n					
c) What typ		Jonel	au011 0	ioes th	15 Scal		agraill							

18 On the first day of each month, a café owner records the midday temperature (°C) and the number of hot meals sold.

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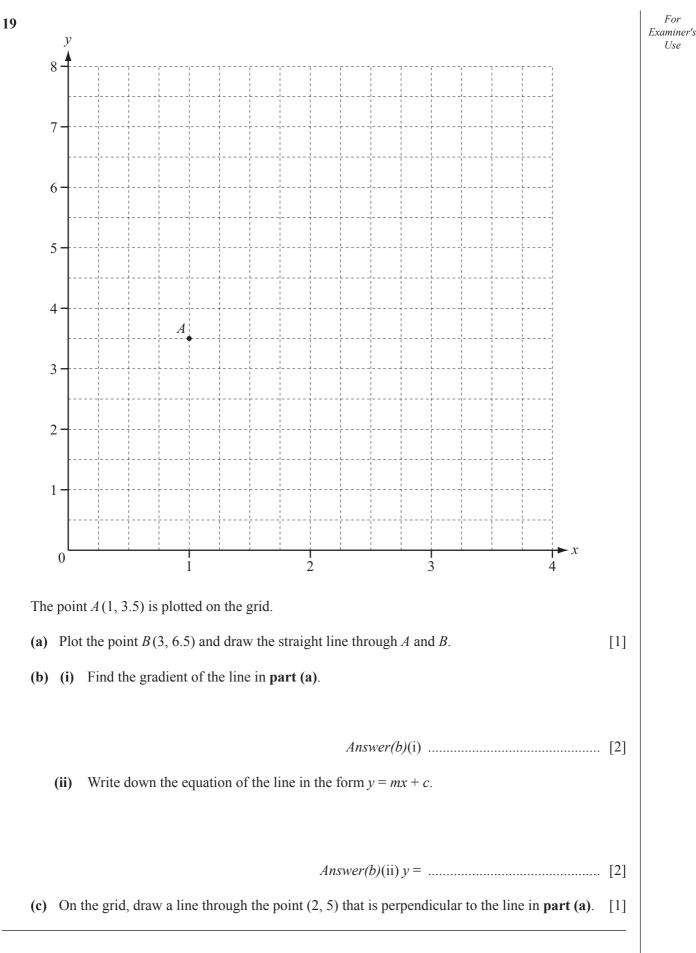
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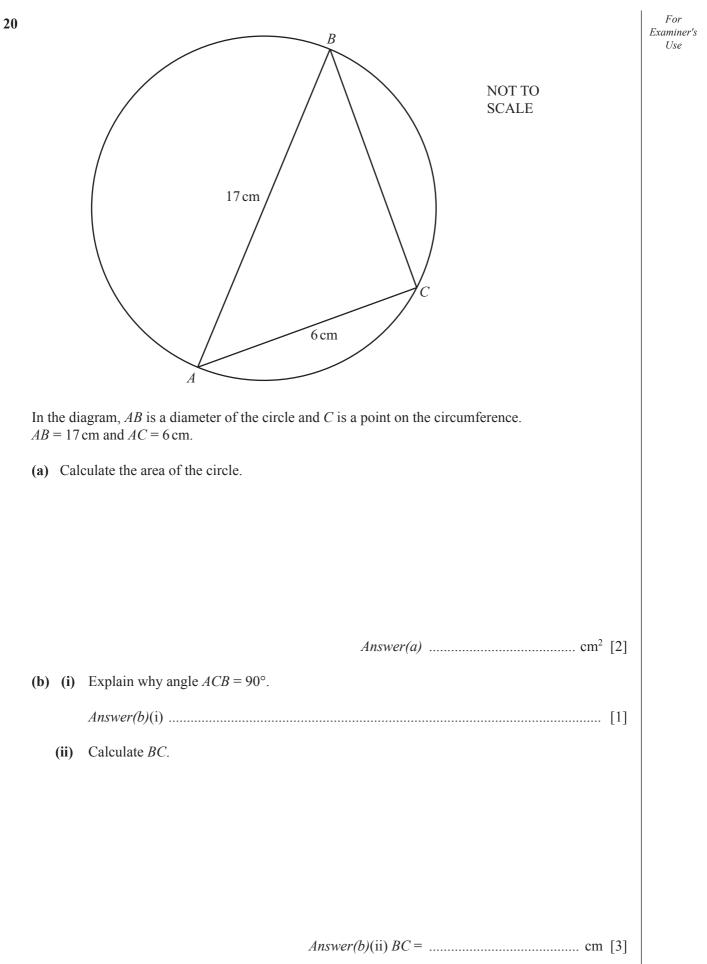
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Month





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