

			INTERNATIONAL EXAMINATION	Munn. Firemepsipers.co.
CANDIDATE NAME				
CENTRE NUMBER			CANDIDATE NUMBER	
MATHEMATIC	S			0581/13
Paper 1 (Core)				May/June 2013
				1 hour
Candidates and	swer on the Ques	stion Paper.		
Additional Mate		onic calculator ng paper (optional)	Geometrical instruments	3

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.



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

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	No		1.	"IIITON	126
	"HA	ISTROUGH	Napic,	300	426
٩	R	HOUTH	415	242	368
Wellington	Rotorija	319	229	109	235
ASTON .	460	356	332	531	657

Write down the distance between Rotorua and Hamilton.

Answer km [1]

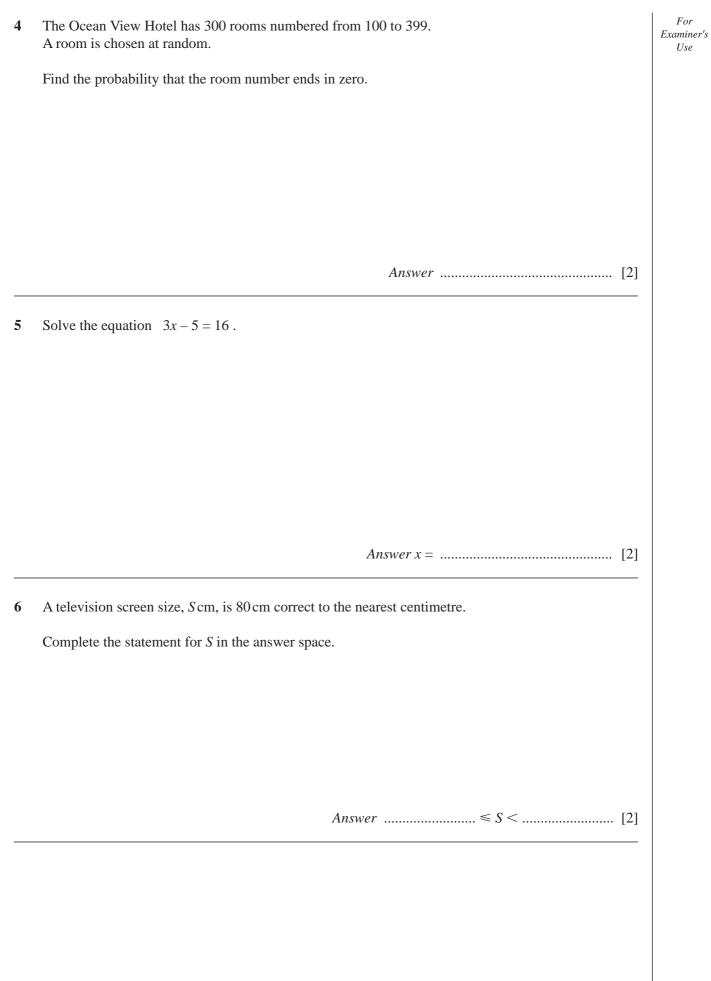
2 Find the value of 1.47³. Give your answer correct to 3 decimal places.

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 12 55 and returned to Lisbon.
The return journey took 15 minutes more.

What time did the plane arrive in Lisbon?

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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.

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

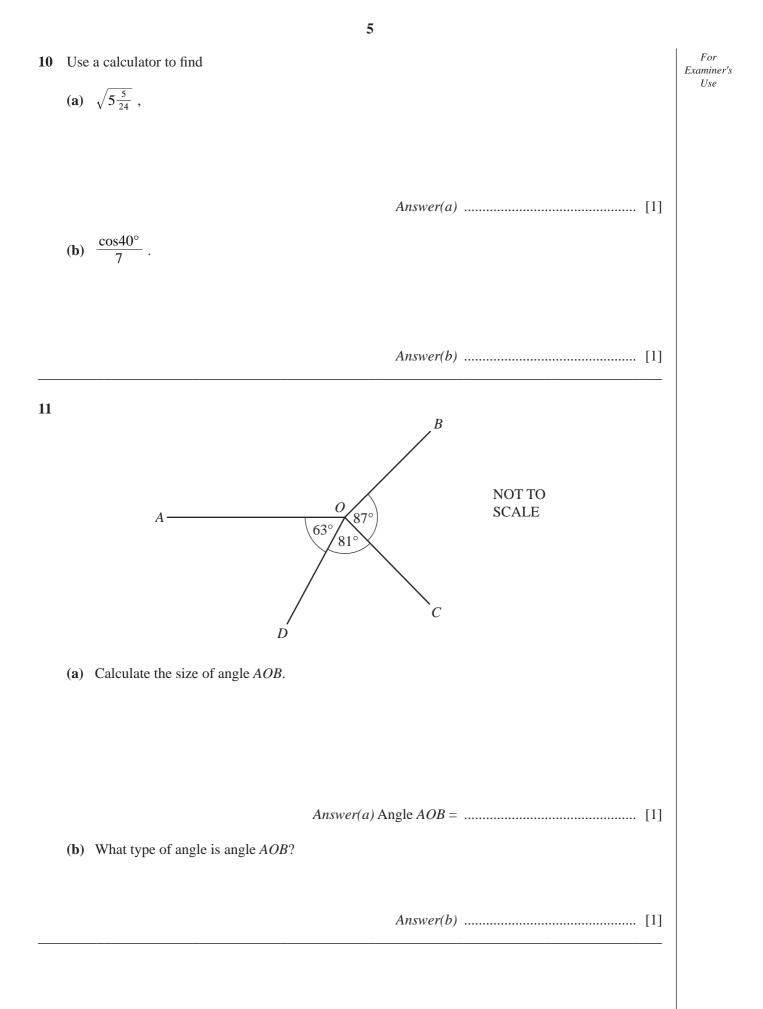
You must show each step of your working.

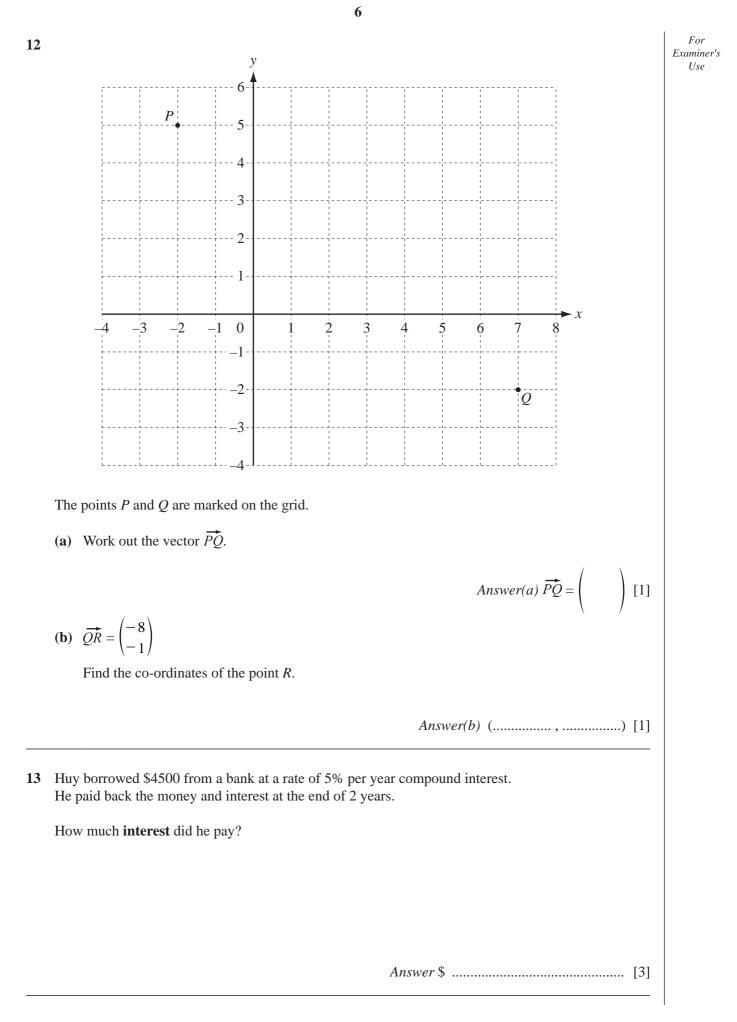
Answer

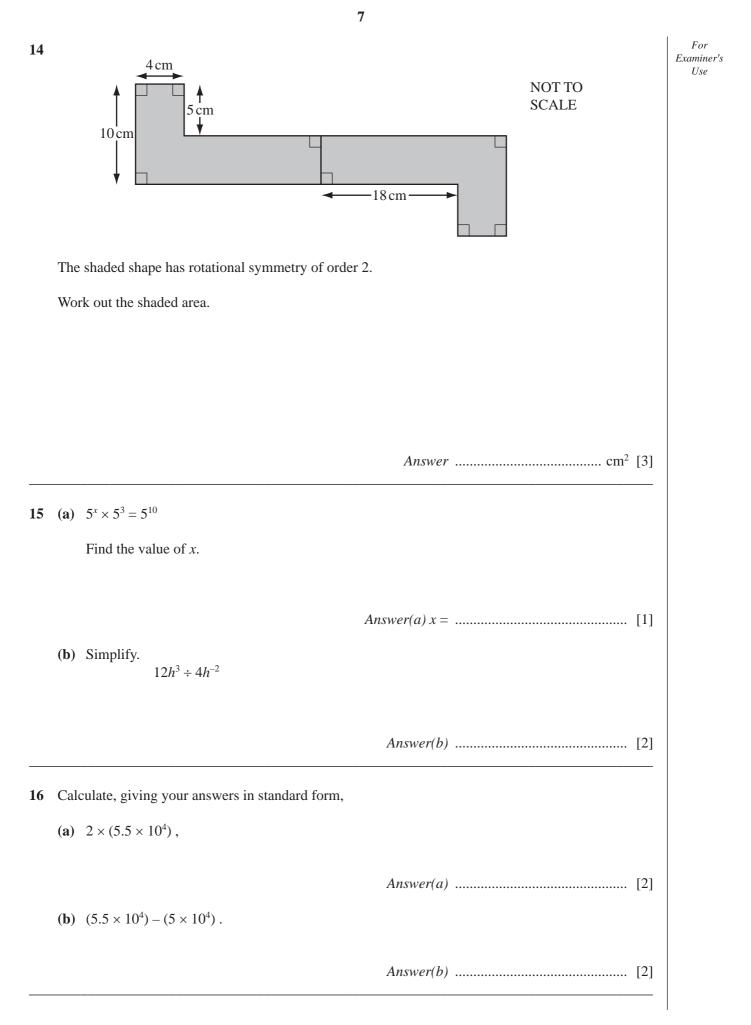
9 Factorise completely.

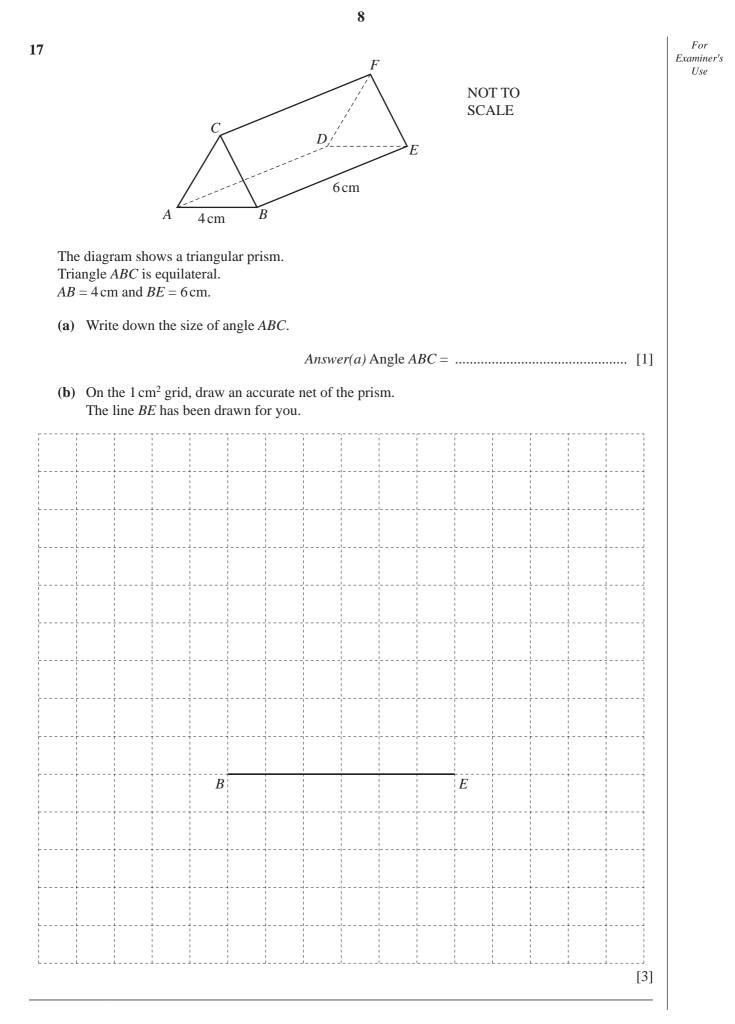
 $6xy^2 - 8y$

[2]



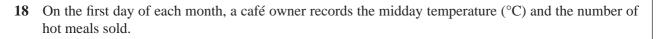






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Temperature (°C)		2	4	9	15	21	24	28	27	23	18	10	5	
Number of hot meals		38	35	36	24	15	10	4	5	12	20	18	32	
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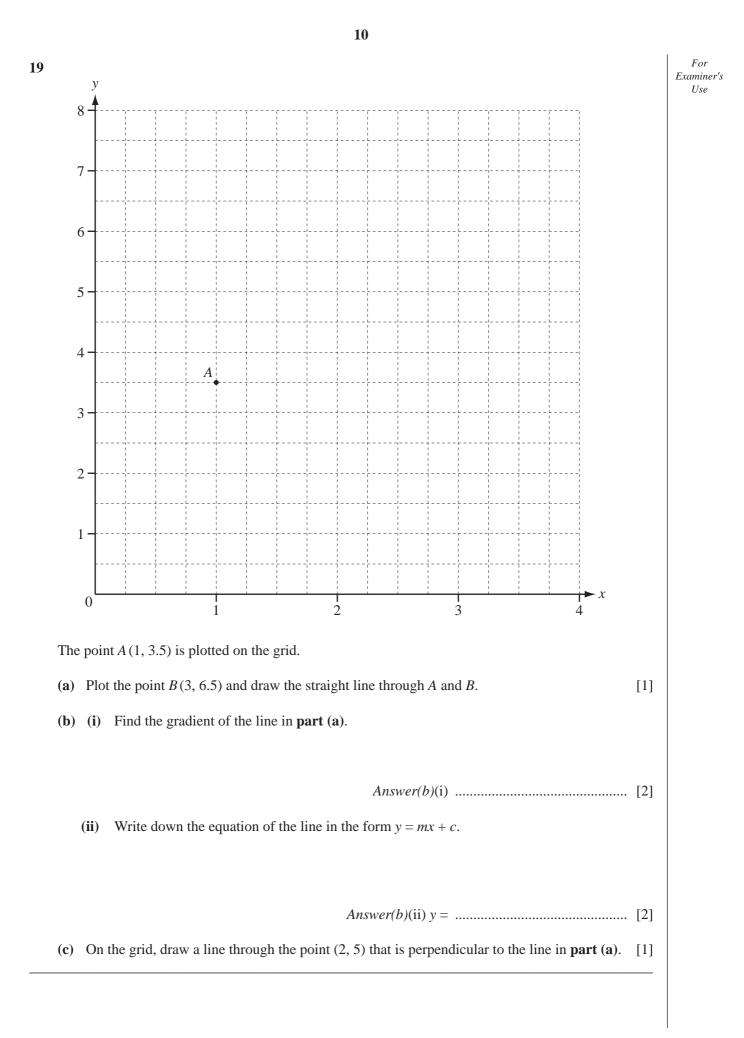
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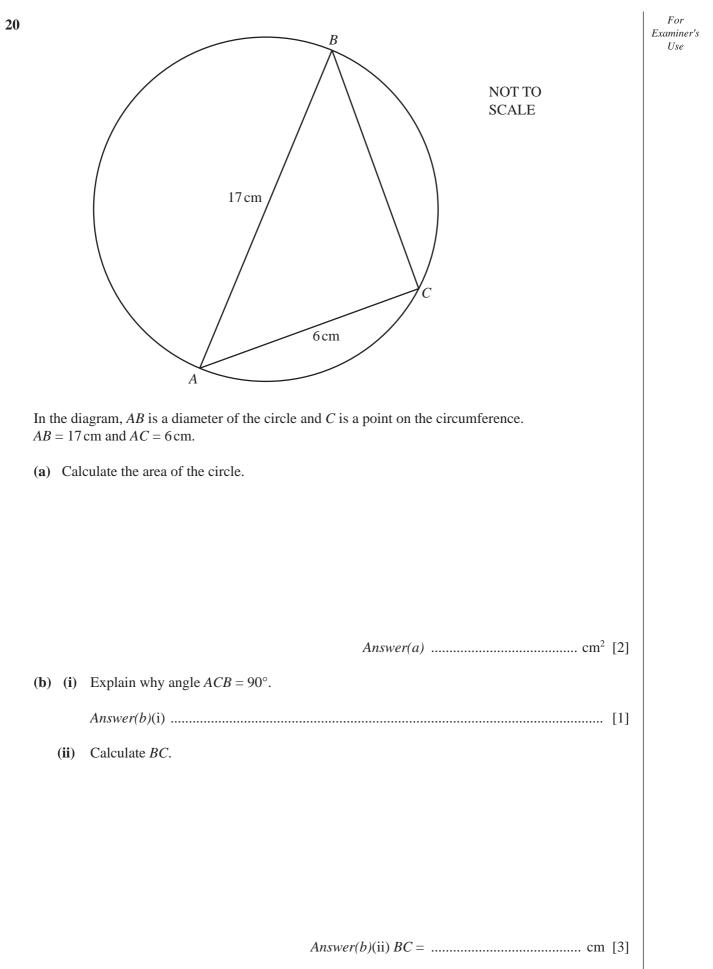
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