Location Entry Codes

As part of CIE's continual commitment to maintaining best practice in assessment, CIE uses different variants of some question papers for our most popular assessments with large and widespread candidature. The question papers are closely related and the relationships between them have been thoroughly established using our assessment expertise. All versions of the paper give assessment of equal standard.

The content assessed by the examination papers and the type of questions is unchanged.

This change means that for this component there are now two variant Question Papers, Mark Schemes and Principal Examiner's Reports where previously there was only one. For any individual country, it is intended that only one variant is used. This document contains both variants which will give all Centres access to even more past examination material than is usually the case.

The diagram shows the relationship between the Question Papers, Mark Schemes and Principal Examiners' Reports that are available.

Question Paper	Mark Scheme	Principal Examiner's Report
Introduction	Introduction	Introduction
First variant Question Paper	First variant Mark Scheme	First variant Principal Examiner's Report
Second variant Question Paper	Second variant Mark Scheme	Second variant Principal Examiner's Report

Who can I contact for further information on these changes? Please direct any questions about this to CIE's Customer Services team at: international@cie.org.uk

The titles for the variant items should correspond with the table above, so that at the top of the first page of the relevant part of the document and on the header, it has the words:

• First variant Question Paper / Mark Scheme / Principal Examiner's Report

or

• Second variant Question Paper / Mark Scheme / Principal Examiner's Report

as appropriate.



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
MATHEMATICS		0580/11, 0581/11
Paper 1 (Core)		October/November 2008
		1 hour
Candidates answe	er on the Question Paper.	
Additional Materia	ls: Electronic Calculator Geometrical Instruments SUITABLE FOR HEARING IMPA	Mathematical tables (optional) Tracing paper (optional) IRED CANDIDATES

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 soft 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.

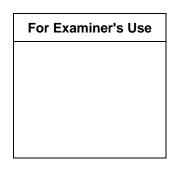
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For π , use either your calculator value or 3.142.

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

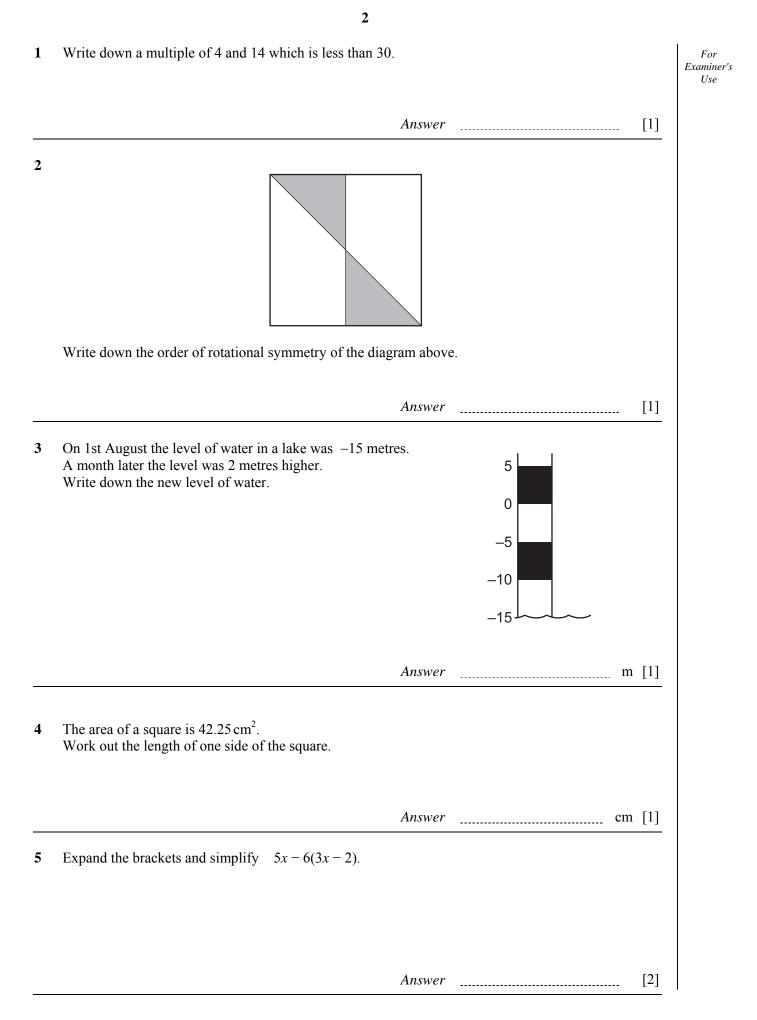
The number of marks is given in brackets [] at the end of each question or part question.

The total of the marks for this paper is 56.



This document consists of 9 printed pages and 3 blank pages.





6	The scale on a map is 1:250 000. A road is 4.6 centimetres long on the map. Calculate the actual length of the road in kilometres.	For Examiner's Use
	Answer km [2]	
7	> = <	
	Choose one of the symbols above to complete each of the following statements.	
	(a) $74\%_{$	
	(b) $\left(\frac{1}{2}\right)^{-3}$	
8	Juanita changed \$20 into euros . The exchange rate was €1=\$1.2685. How many euros did she receive? Give your answer correct to 2 decimal places.	
	<i>Answer</i> € [2]	
9	Solve the equation $5x + 2 = 53$.	
	Answer x = [2]	
10	The River Nile is 6700 kilometres long, correct to the nearest hundred kilometres. Complete the statement about the length, <i>L</i> kilometres, of the River Nile.	
	Answer $< L$, [2]	

 The table below is	s part of a bus timet	able	
City centre	1115	1230	1310

11

	Heatherton	1125	1240	1320	13 50	
	Rykneld	1129	1244	13 24	13 54	
(8		ft the City centre on ites did it take to rea		Rykneld 2 minute	es early.	
			Answ	er(a)	min	[1]
(t	 Paulo walked to The next bus arr How many minu 			at 1256.		
			Answ	er(b)	min	[1]
	he line with equatio Vork out the value of		es through the point	(4,0).		
						[2]
			es through the point Answer			[2]
W						[2]
W 13 W	Vork out the value of	f <i>k</i> .				[2]
W 13 W	Vork out the value of	f <i>k</i> .	Answer			[2]
W 13 W (8	Vork out the value of	f <i>k</i> .	Answer	<u>k</u> =		
W 13 W (8	Vork out the value of Vrite 0.00578 a) in standard form	f <i>k</i> .	Answer	<u>k</u> =		
(13 W (13 (1	Vork out the value of Vrite 0.00578 a) in standard form	, ificant figures,	Answer	k = er(a)		[1]

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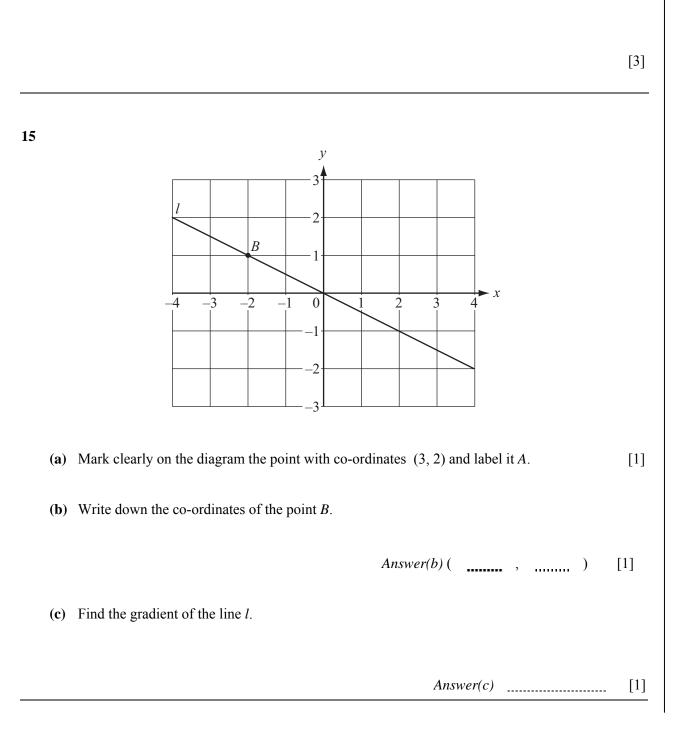
1340

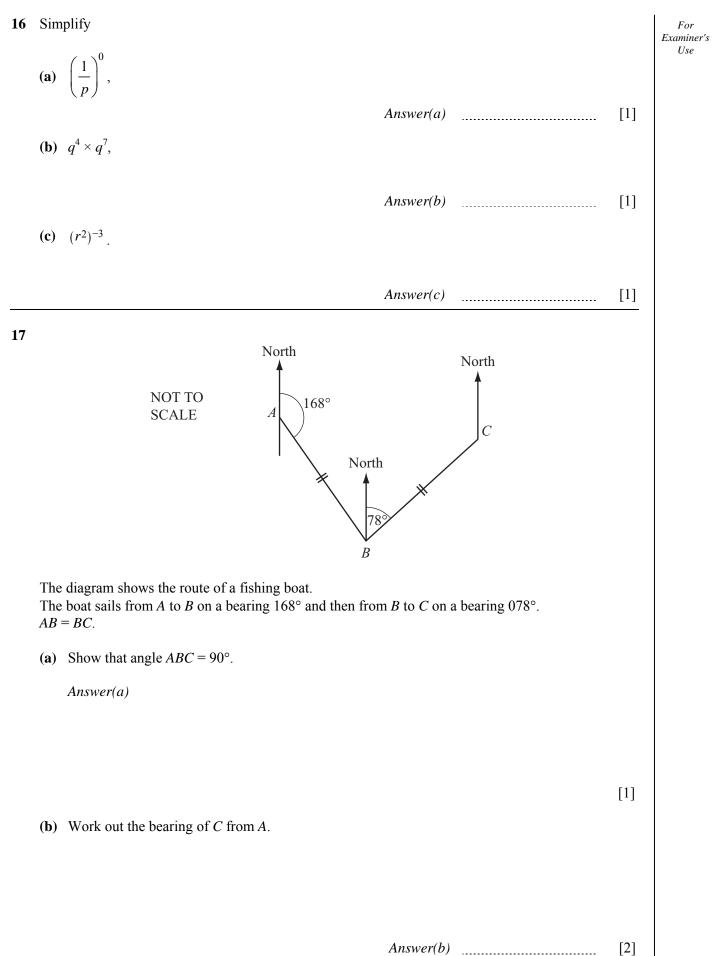
14 Without using your calculator, work out

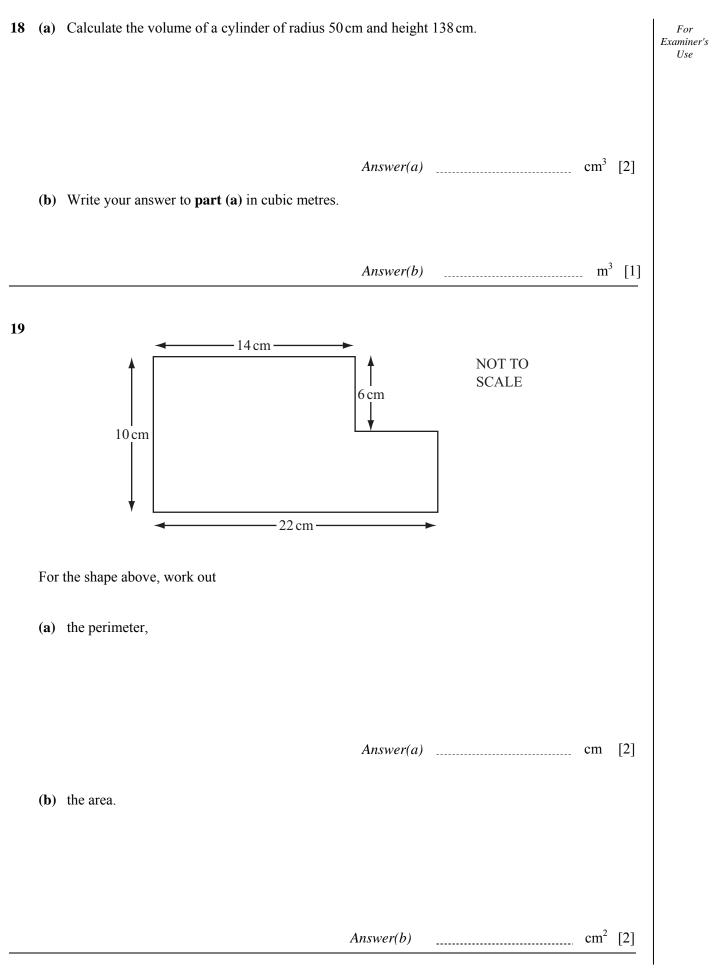
$$\frac{5}{8} \div 3\frac{3}{4}$$

Give your answer as a fraction in its lowest terms. You must show **all** your working.

Answer





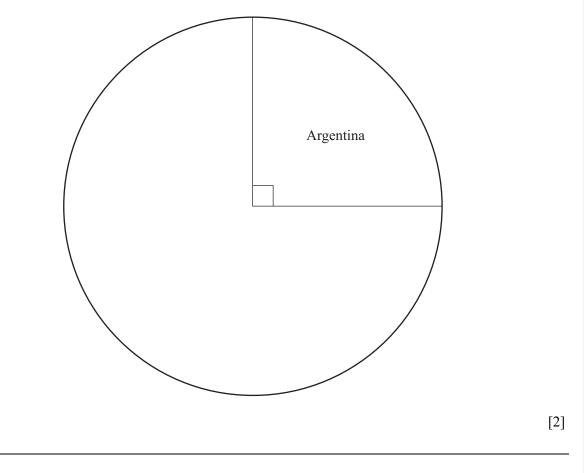


20	(a)	 85% of the seeds in a packet will produce red flowers. One seed is chosen at random. What is the probability that it will not produce a red flower? 		
		$Answer(a) \qquad [1]$		
	(b)	A box of 15 pencils contains 5 red, 4 yellow and 6 blue pencils. One pencil is chosen at random from the box. Find the probability that it is		
		(i) yellow, Answer(b)(i) [1]		
		(ii) yellow or blue, Answer(b)(ii) [1]		
		(iii) green. [1]		
21		$B = \frac{12 \text{ cm}}{68^{\circ}} R C \text{ scale}$ NOT TO SCALE		
	(a)	Complete the following statement.Triangle ABC isto triangle ADE.		
	(b)	AB = 12 cm, $BC = 8$ cm and $DE = 10$ cm. Calculate the length of AD .		
	(c)	$Answer(b) \qquad \qquad \text{cm [2]}$ Angle $ABC = 68^{\circ}$. Calculate the size of the reflex angle at D .		
		Answer(c) [2]		

22 A travel brochure contains 24 pictures from different countries. The table shows how many pictures there are from each country.

Country	Number of pictures	Angle in a pie chart
Argentina	6	90°
South Africa	10	150°
Australia	3	
New Zealand		

- (a) Complete the table.
- (b) Complete the pie chart accurately and label the sectors for South Africa, Australia and New Zealand.



[3]

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER		CANDIDATE NUMBER
\$ 9 9	MATHEMATICS		0580/12, 0581/12
4	Paper 1 (Core)		October/November 2008
			1 hour
2	Candidates answer	on the Question Paper.	
872*	Additional Materials:	Electronic Calculator Geometrical Instruments	Mathematical tables (optional) Tracing paper (optional)

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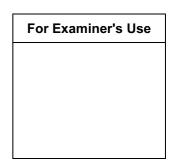
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For π , use either your calculator value or 3.142.

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

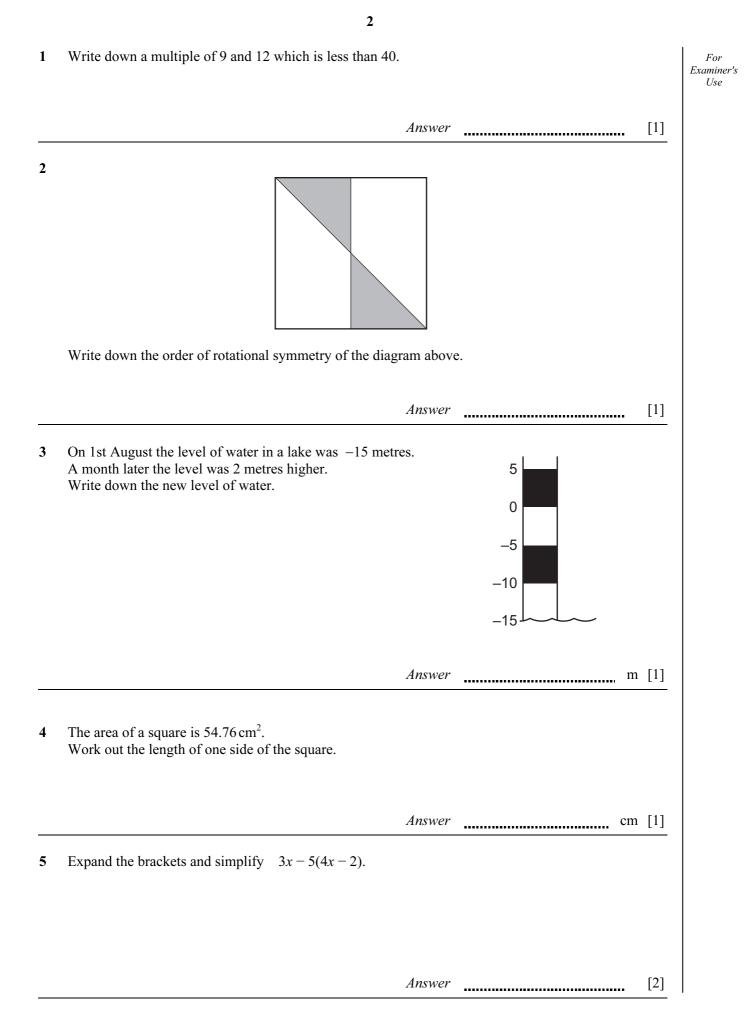
The number of marks is given in brackets [] at the end of each question or part question.

The total of the marks for this paper is 56.



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	Answer km [2]			
7	> = <			
	Choose one of the symbols above to complete each of the following statements.			
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8	Juanita changed \$30 into euros when the exchange rate was €1=\$1.2685. How many euros did she receive? Give your answer correct to 2 decimal places.			
	<i>Answer</i> € [2]			
9	Solve the equation $5x + 1 = 54$.			
	Answer x = [2]			
10	The length of the River Nile is 6700 kilometres, correct to the nearest hundred kilometres. Complete the statement about the length, L kilometres, of the River Nile.			
	Answer $\leq L <$ [2]			

0580/12/O/N/08

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L	L

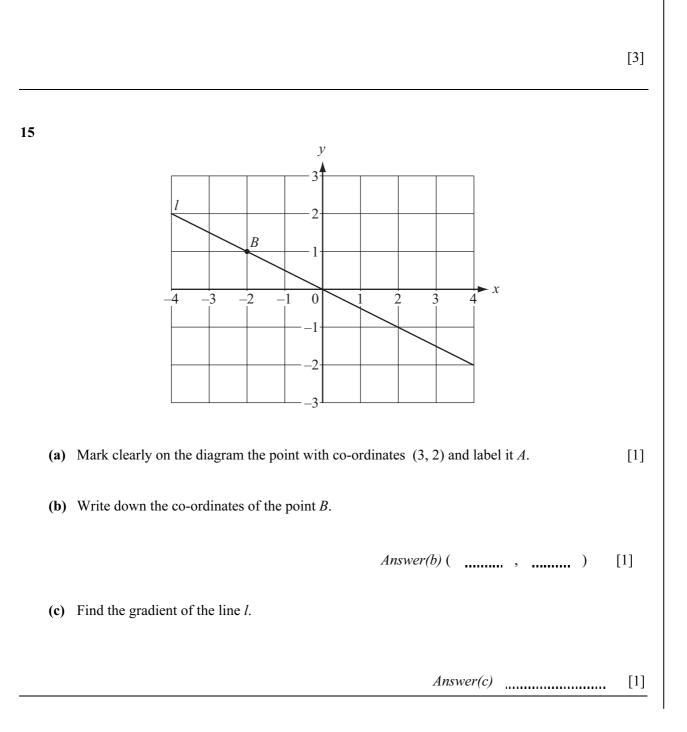
11						
		City centre	1115	1230	1310	13 40
		Heatherton	1125	1240	1320	13 50
		Rykneld	1129	1244	1324	13 54
	The	table above is par	t of a bus timetable	•		
	(a)		t the City centre on tes did it take to rea	time and arrived at ch Rykneld?	Rykneld 2 minute	s early.
	<i>(</i> 1)			Answe		min [1]
	(b)	The next bus arri		herton and arrived a or the bus?	t 12 56.	
				Answe	er(b)	min [1]
12		line with equation in the value of		es through the point Answer		[2]
13	Wr	ite 0.00656				
	(a)	in standard form,				
				Answe	er(a)	[1]
	(b)	correct to 2 signi	ficant figures,			
	(c)	correct to 2 decin	nal places.	Answe	r(b)	[1]
				Answe	er(c)	[1]

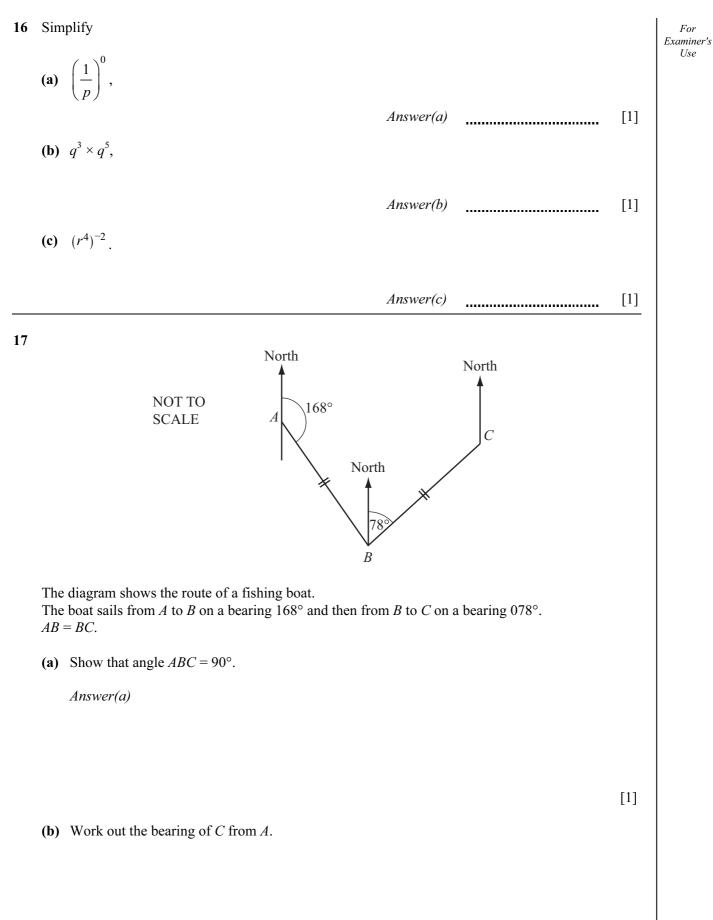
14 Without using your calculator, work out

$$\frac{4}{9} \div 6\frac{2}{3}$$

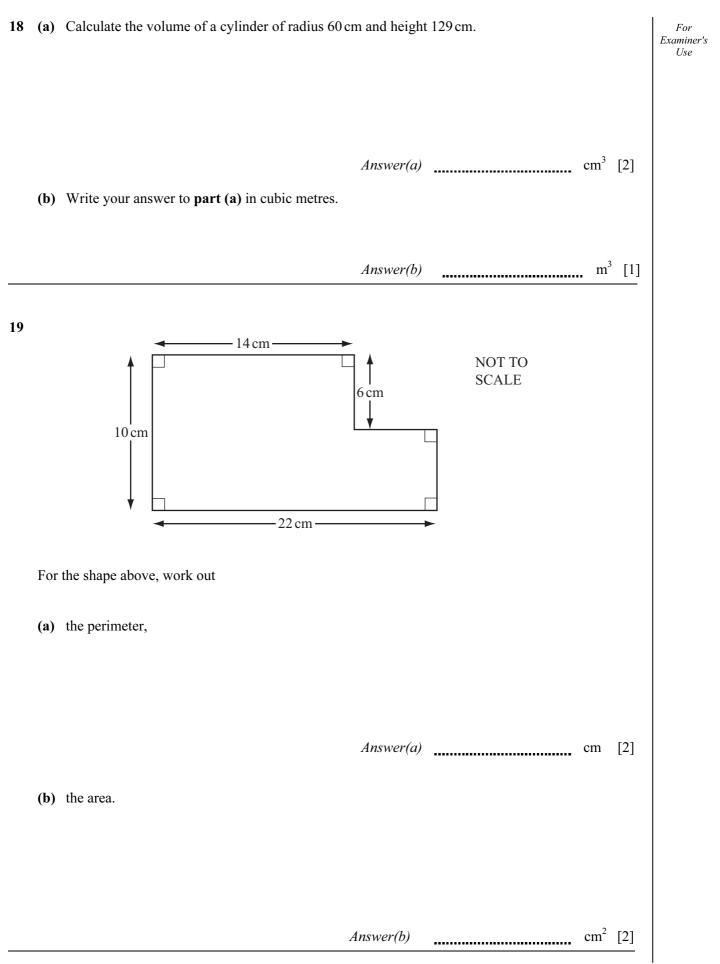
Give your answer as a fraction in its lowest terms. You must show **all** your working.

Answer





Answer(b) [2]



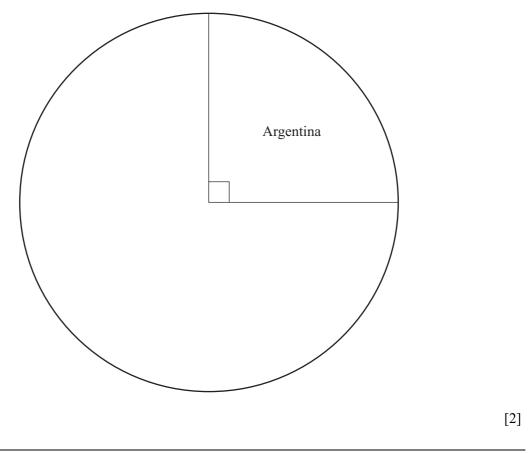
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		(i) yellow, <i>Answer(b)</i> (i) [1]				
		(ii) yellow or blue, Answer(b)(ii) [1]				
		(iii) green. [1]				
21		-A				
		D B 63° 9_{cm} C E $NOT TO SCALE$				
	In t	he diagram BC is parallel to DE .				
	(a)	Complete the following statement.				
		Triangle <i>ABC</i> is to triangle <i>ADE</i> . [1]				
	(b)	AB = 15 cm, $BC = 9$ cm and $DE = 12$ cm. Calculate the length of AD .				
	(c)	Answer(b) cm [2] Angle $ABC = 63^{\circ}$. Calculate the size of the reflex angle at <i>D</i> .				
		$Answer(c) \qquad [2]$				

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[3]

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