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						ANDIDATE JMBER				
*											
7 2	MATHEMATICS	į						0	580/1	1, 05	81/11
7	Paper 1 (Core)						00	ctober	/Nove	mber	2008
2 4										1	hour
	Candidates answ	ver on th	e Questi	ion Pa	aper.					•	
6 0 7 *	Additional Materi	als:	Electror Geome				tical tables (aper (optior		al)		

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.

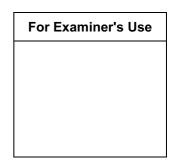
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For π , use either your calculator value or 3.142.

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

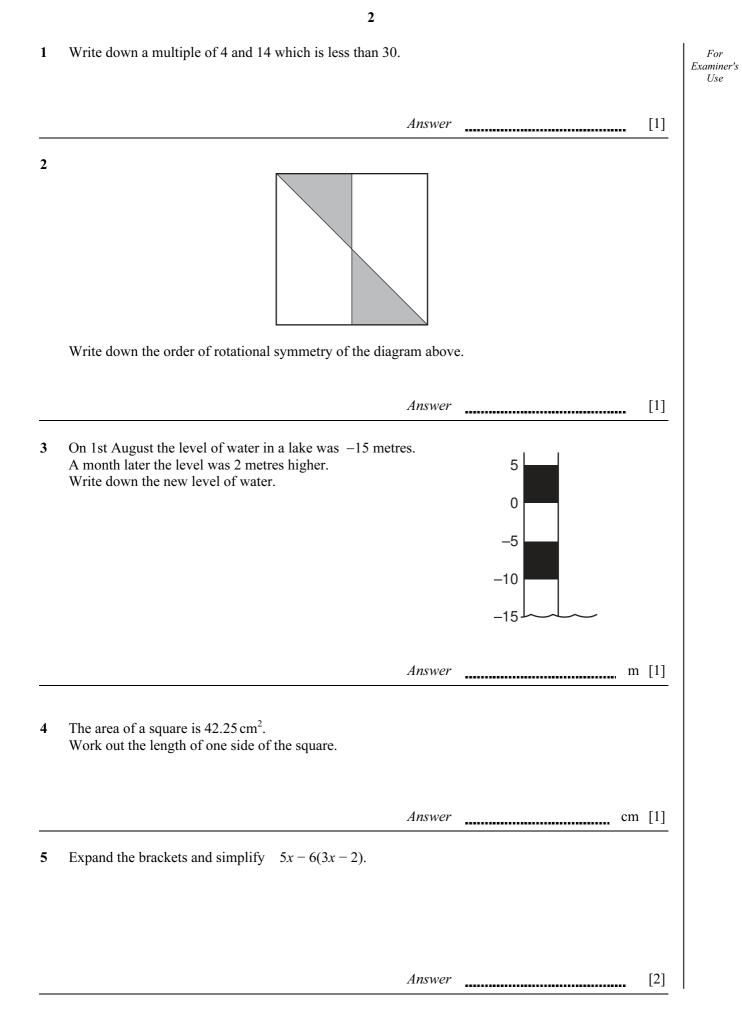
The number of marks is given in brackets [] at the end of each question or part question.

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% [1]	
	(b) $\left(\frac{1}{2}\right)^{-3}$	
8	Juanita changed \$20 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 $5x + 2 = 53$.	
	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]	

3

1	1
L	L

		1117	10.20	12.10	12.40	
	City centre	1115	1230	1310	13 40	
	Heatherton	1125	1240	1320	13 50	
	Rykneld	11 29	1244	1324	13 54	
Th	ne table above is par	t of a bus timetable	e.			
(a)		t the City centre or tes did it take to re	n time and arrived at a ach Rykneld?	Rykneld 2 minute	s early.	
			Answe	r(a)	min	[1]
(b)	The next bus arri		therton and arrived a for the bus?	t 1256.		
Th W	ne line with equation fork out the value of	y = 2x - k pass	Answe		min	[1]
Th W	ne line with equation fork out the value of	y = 2x - k pass	es through the point	(4,0).	min	
Th W	ne line with equation fork out the value of	y = 2x - k pass		(4,0).	min	[1]
W	The line with equation fork out the value of	y = 2x - k pass	es through the point	(4,0).	min	
W	ork out the value of	`k.	es through the point	(4,0).	min	
W	fork out the value of	`k.	tes through the point	(4 , 0). k =		[2]
(a)	fork out the value of	`k.	tes through the point	(4,0).		
(b)	 fork out the value of frite 0.00578 in standard form, correct to 2 signi 	<i>`k.</i>	tes through the point <i>Answer Answer</i>	(4 , 0). k =		[2]
(b)	fork out the value of frite 0.00578	<i>`k.</i>	tes through the point <i>Answer Answer</i>	(4, 0). k =		[2]

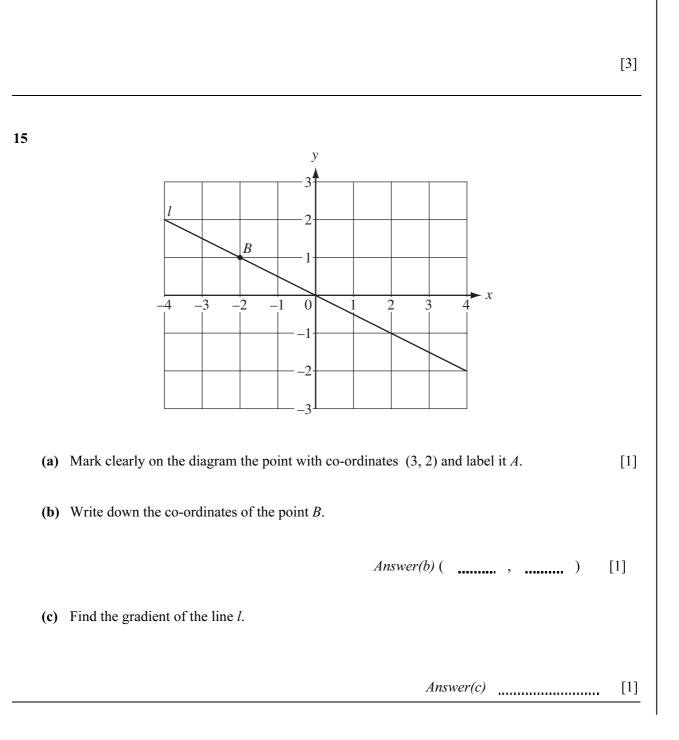
ForExaminer's Use

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.

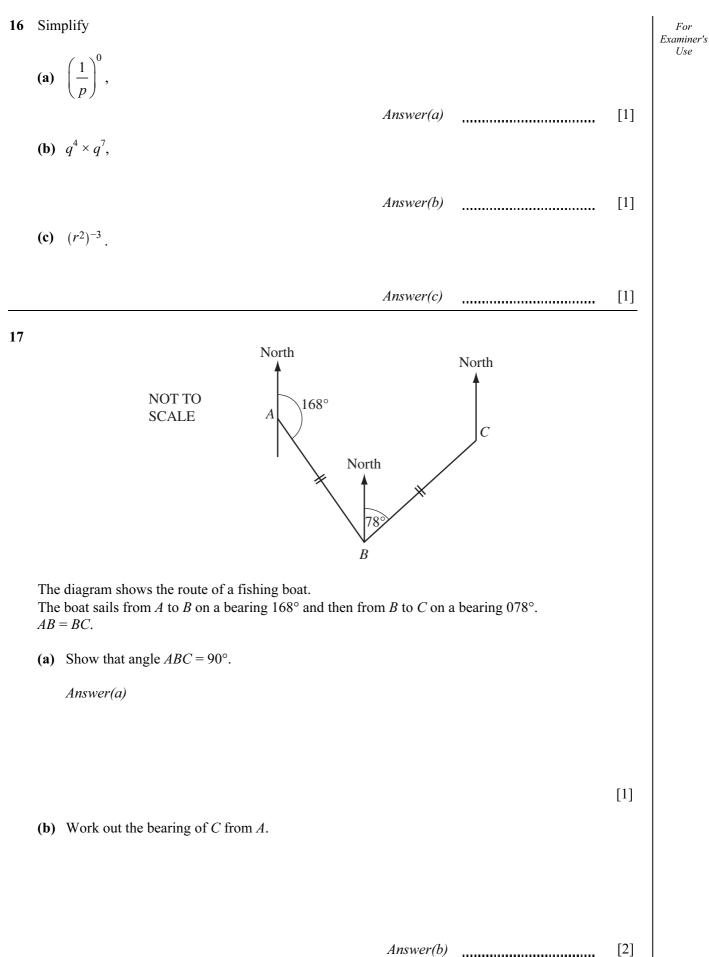
Answer



[Turn over

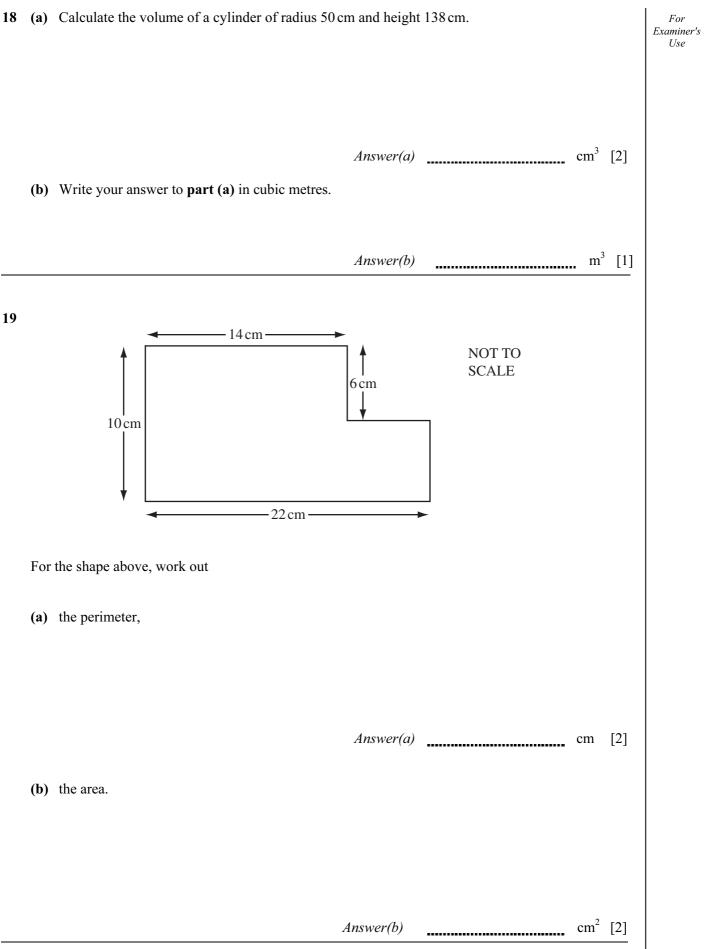
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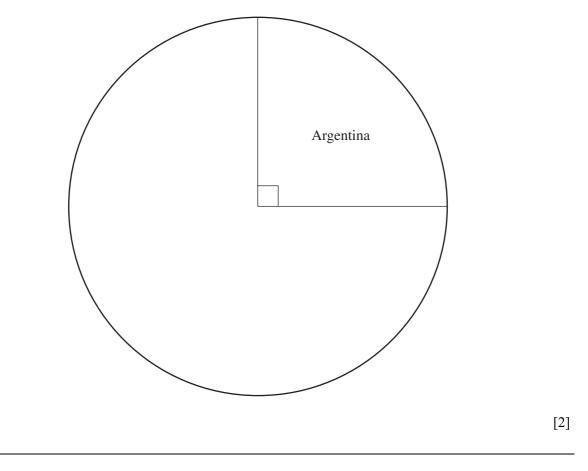
7

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?	For Examiner's Use
		Answer(a) [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, <i>Answer(b)</i> (i) [1]	
		(ii) yellow or blue, Answer(b)(ii) [1]	
		(iii) green. [1]	
21		A	
		D B 68° 8_{cm} C E NOT TO SCALE	
	In tl	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 = 12 cm, BC = 8 cm and DE = 10 cm. Calculate the length of AD .	
	(c)	Answer(b) cm [2] Angle $ABC = 68^{\circ}$. Calculate the size of the reflex angle at <i>D</i> .	
		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.



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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME								
	CENTRE NUMBER					CANDIDATE NUMBER			
*									
¢ ¢	MATHEMATICS						0580/	12, 05	581/12
4	Paper 1 (Core)					00	tober/Nov	/embe	r 2008
3									1 hour
2	Candidates answ	ver on th	e Questior	n Paper.					
872*	Additional Materia	als:	Electronic Geometric			Mathematical tables (Tracing paper (option			

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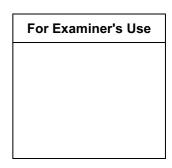
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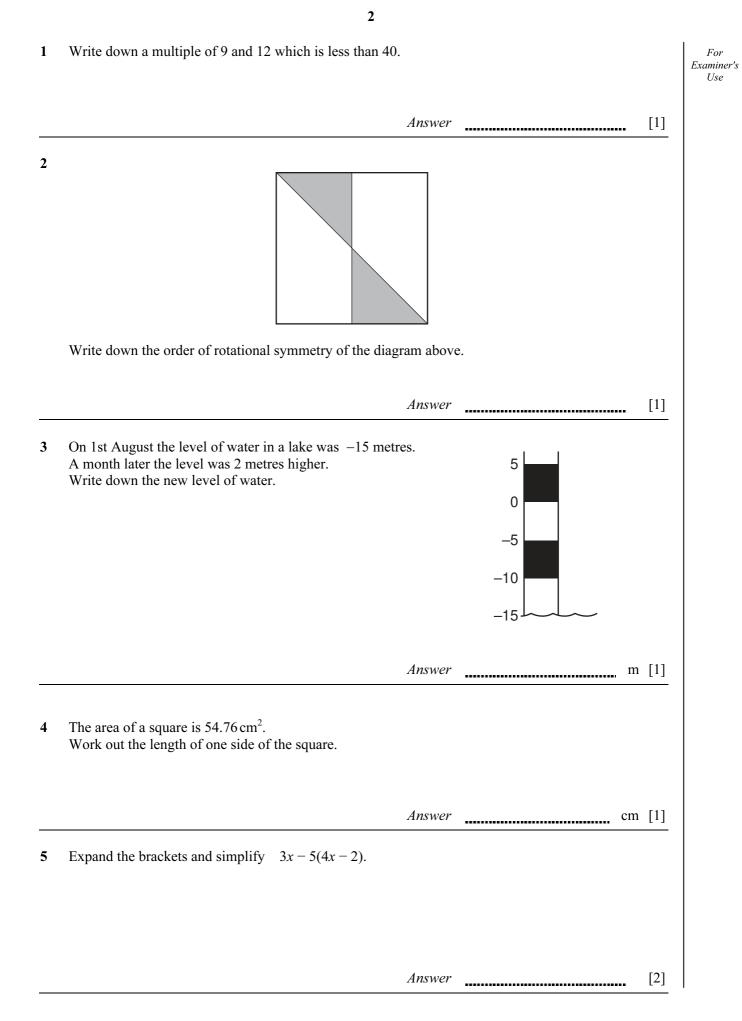
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6	The scale on a map is 1:250 000. A road is 3.8 centimetres long on the map. Calculate the actual length of the road in kilometres.	For Examiner's Use
	Answer km [2]	
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1	1

					1	
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Th	ne table above is pa	rt of a bus timetabl	le.			
(a)		ft the City centre o ites did it take to re	n time and arrived at each Rykneld?	Rykneld 2 minutes	s early.	
			Answe	er(a)	min	[1]
(b)	The next bus arr		atherton and arrived a for the bus?	t 12 56.		
	ne line with equatio ork out the value o		Answe ses through the point		min	[1]
					min	[1]
				(4,0).	min	[1]
W0			ses through the point	(4,0).	min	
Wo	ork out the value o	f <i>k</i> .	ses through the point	(4,0).	min	
Wo	rite 0.00656	f <i>k</i> .	ses through the point Answer	(4,0).		
Wo 6 Wi (a)	rite 0.00656	f k.	ses through the point Answer	(4 , 0). <i>k</i> =		[2]
Wo 6 Wi (a)	rite 0.00656) in standard form	f k.	ses through the point Answer	(4 , 0). <i>k</i> =		[2]
(b)	rite 0.00656) in standard form	, ificant figures,	ses through the point Answer	(4, 0). k = er(a)		[2]

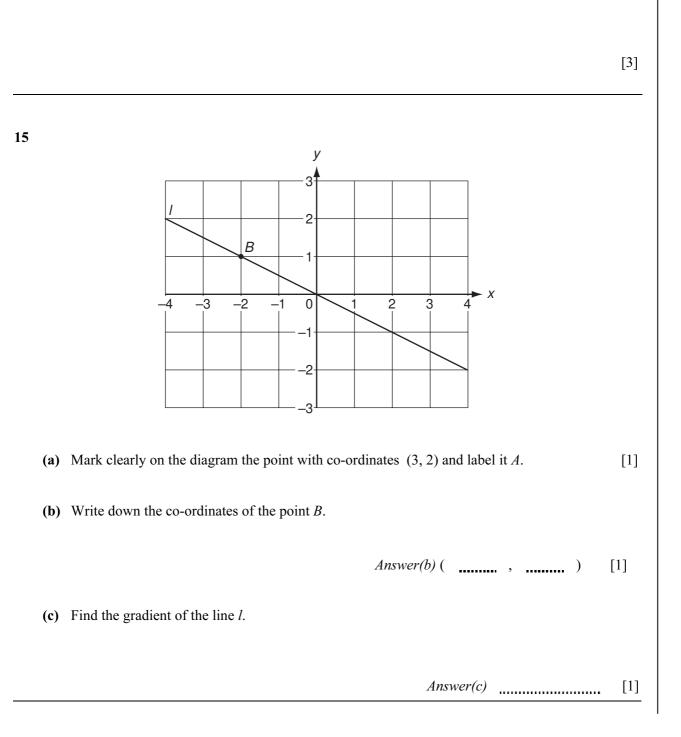
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14 Without using your calculator, work out

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

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

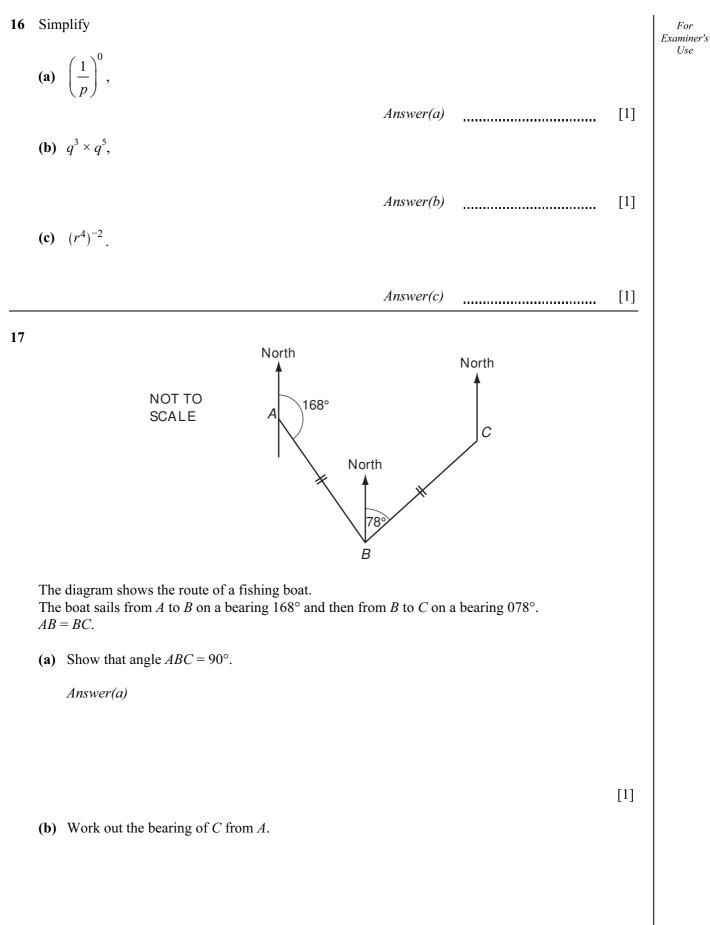
Answer



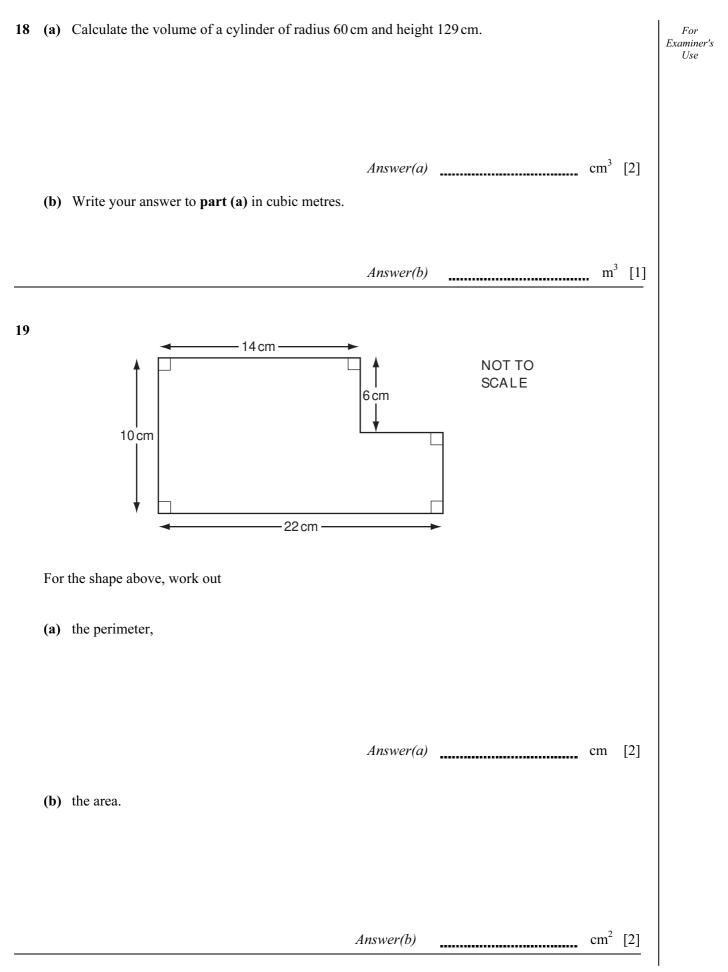
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Answer(b) [2]

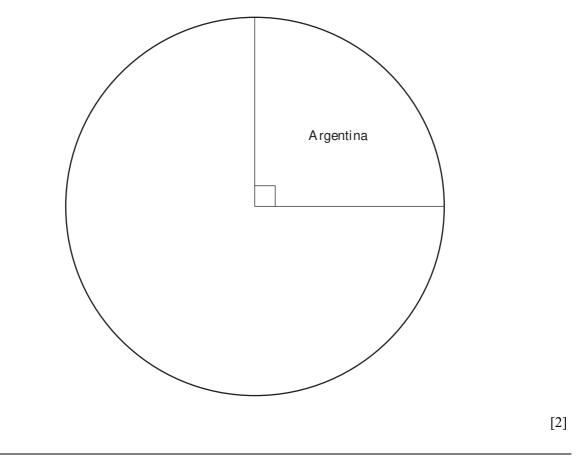


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		(i) yellow, <i>Answer(b)</i> (i) [1]					
		(ii) yellow or blue, Answer(b)(ii) [1]					
		(iii) green. [1]					
21		$B = 63^{\circ}$ 9_{Cm} C $B = 63^{\circ}$ 9_{Cm} C $B = 12_{Cm}$ C E					
	In tl	he diagram BC is parallel to DE .					
	(a)	Complete 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> .					
		<i>Answer(c)</i> [2]					

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