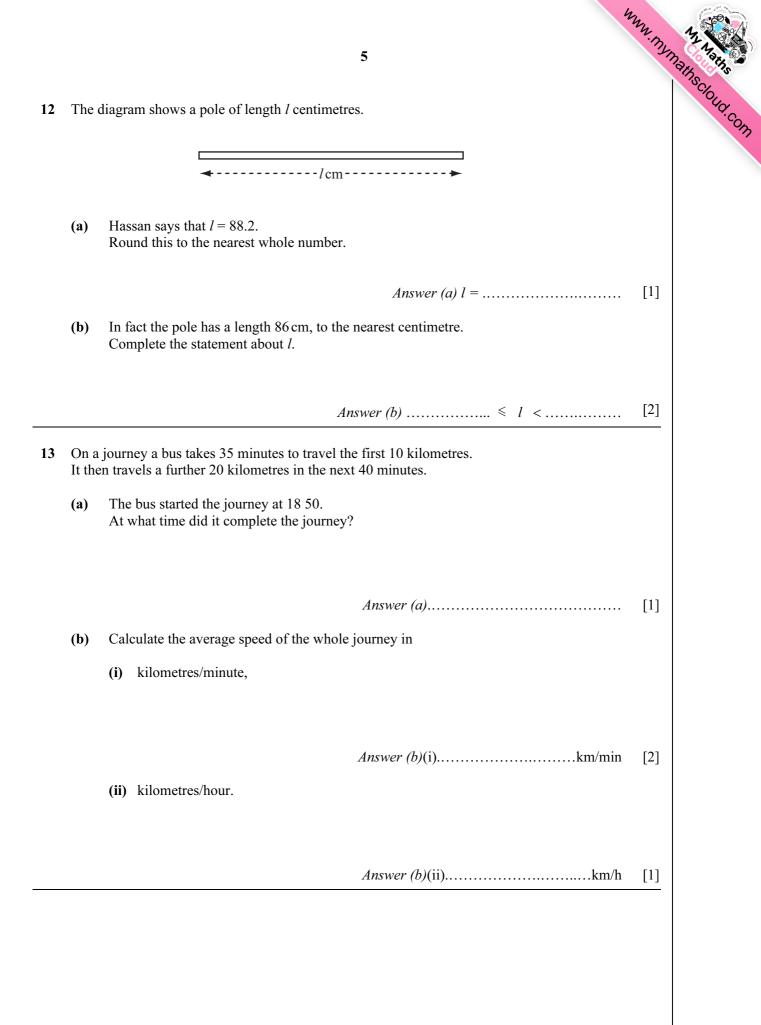
Centre Number	Candidate Number	Name	······································
			Math
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lı	nternational General C	ertificate of Second	lary Education
MATHEMA	ATICS		0580/01
Papor 1			0581/01
Paper 1			May/June 2003
Condidates	nower on the Question Der		1 hour
Additional Ma	answer on the Question Pap aterials: Electronic calcula		
	Geometrical instr		
	Mathematical tab	,	
	Tracing paper (o	plional)	
READ THESE IN	STRUCTIONS FIRST		
Write your Centre	number, candidate numbe	r and name on all the v	vork you hand in.
Write in dark blue	or black pen in the spaces	provided on the Quest	tion Paper.
-	oft pencil for any diagrams o	•	
Do not use staple	s, paper clips, highlighters,	glue or correction fluid	
Answer all questi	ons.		
	ed for any question it must	be shown below that q	uestion.
The number of ma	arks is given in brackets []	at the end of each que	estion or part question.
The total of the m	arks for this paper is 56.		
Electronic calcula	tors should be used.		
			e answer is not exact, give the answer
-	t figures. Give answers in o	-	li piace.
For π , use either	your calculator value or 3.1	42.	
	n a label lask at the		For Examiner's Use
If you have been give details. If any details a			
	your correct details in		
the space given at the	e top of this page.		

This document cons	sists of 9 printed pages and 3 blank pages.
S	UNIVERSITY of CAMBRIDGE Local Examinations Syndicate

www.mymathscloud.com 2 $\sqrt{7.1^3 + 2.9^3}$, giving Work out 1 (a) your full calculator display, Answer (a)..... [1] your answer to 2 decimal places. **(b)** Answer (b)..... [1] The diagram shows how the water level of a river went down during a drought. 2 2 -2 -1 0 -0 -1. -1. -2 • -2. -3 --3 -4 • -4 The measurements are in metres. By how many metres did the water level go down? **(a)** Answer (a).....m [1] **(b)** A heavy rainfall followed the drought and the water level went up by 1.6 metres. What was the water level after the rainfall? Answer (b).....m [1] Write in order of size, smallest first 3 (a) $\frac{33}{50}$, 67%. 0.68. [1] Convert 0.68 into a fraction in its lowest terms. **(b)** Answer (b)..... [1]

3	12	mm.m
Mahesh and Jayraj share \$72 in the ratio 7:5. How much does Mahesh receive?		inn m
	Answer \$	[2]
The population of a city is 550 000. It is expected that this population will increase by 42 Calculate the expected population in 2008.	2% by the year 2008.	
	Answer	[2]
Areeg goes to a bank to change \$100 into riyals. The bank takes \$2.40 and then changes the rest of th How much does Areeg receive in riyals?	the money at a rate of $1 = 3.75$ riyals.	
	Answerriyals	[2]
Write down the value of $(1\frac{1}{2})^{-2}$ as a fraction.		
	4	
(a) $y = 4uv - 3v$. Find the value of y when $u = -3$ and $v = 2$.	Answer	[2]
(b) Factorise $4uv - 3v$.	<i>Answer (a)</i> $y =$	[1]
	Answer (b)	[1]

WWW.MYM3HScloud.com 4 9 Solve the equation x + 4 = 3(2 - x). Answer $x = \dots$ [3] There are approximately 500 000 grains of wheat in a 2 kilogram bag. 10 Calculate the mass of one grain in grams. **(a)** *Answer (a)*g [2] Write your answer to part (a) in standard form. **(b)** Answer (b)g [1] 11 Solve the simultaneous equations 3a + 2b = 7, a - 2b = 5. Answer $a = \dots$ *b* = [3]



- 14 Show all your working for the following calculations. The answers are given so it is only your working that will be given marks.
 - $\frac{1}{2} + \frac{2}{3} = 1\frac{1}{6}$, **(a)**

Answer (a)

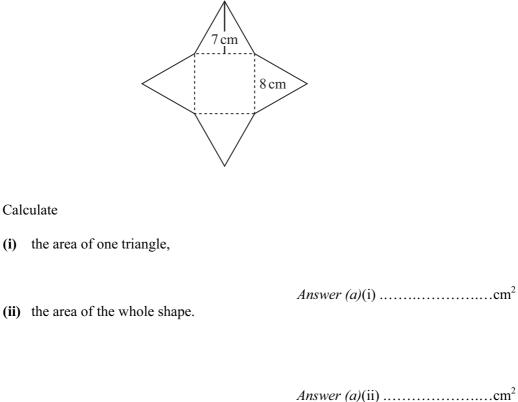
 $1\frac{1}{5} \times 1\frac{3}{4} = 2\frac{1}{10}$. **(b)**

Answer (b)

15 The diagram shows a square of side 8 cm and four congruent triangles of height 7 cm.

(a)

- (ii) the area of the whole shape.
- The shape is the net of a solid. **(b)** Write down the special name for this solid.
 - Answer (b) [1]



6

[2]

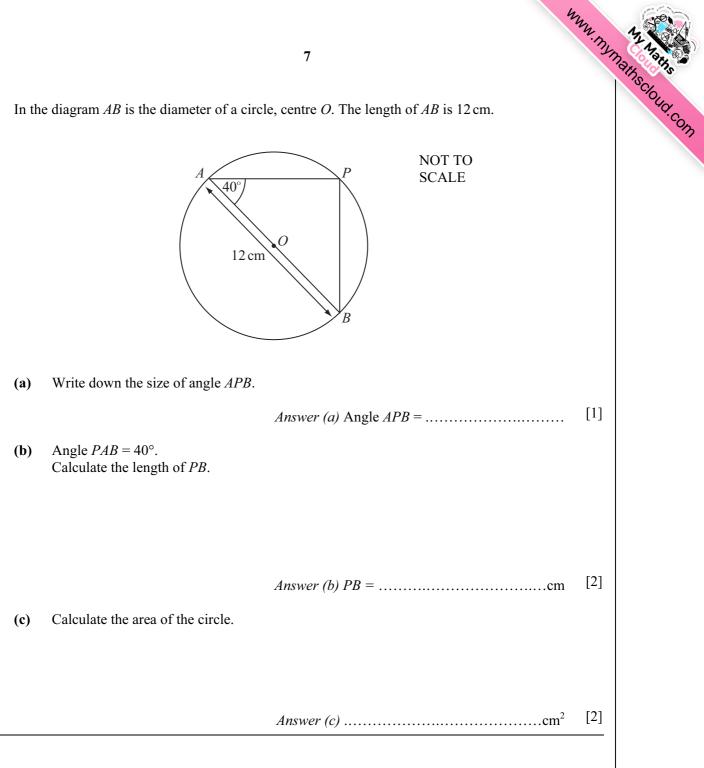
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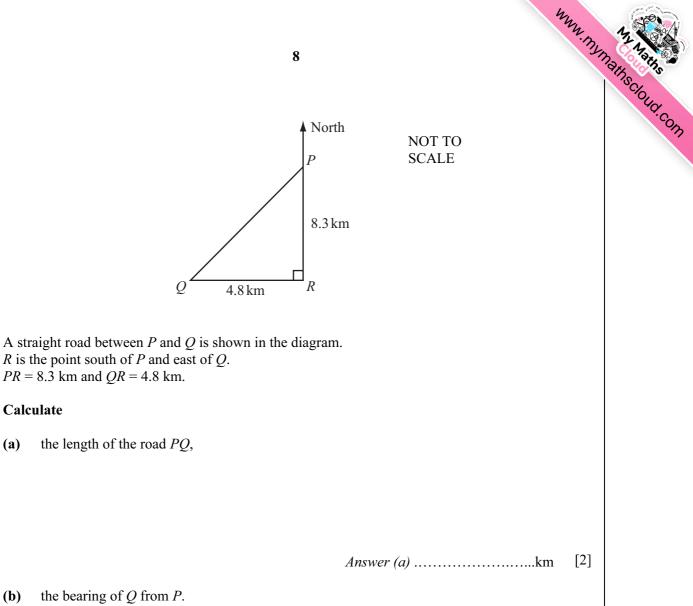
[2]

[2]

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16 In the diagram AB is the diameter of a circle, centre O. The length of AB is 12 cm.



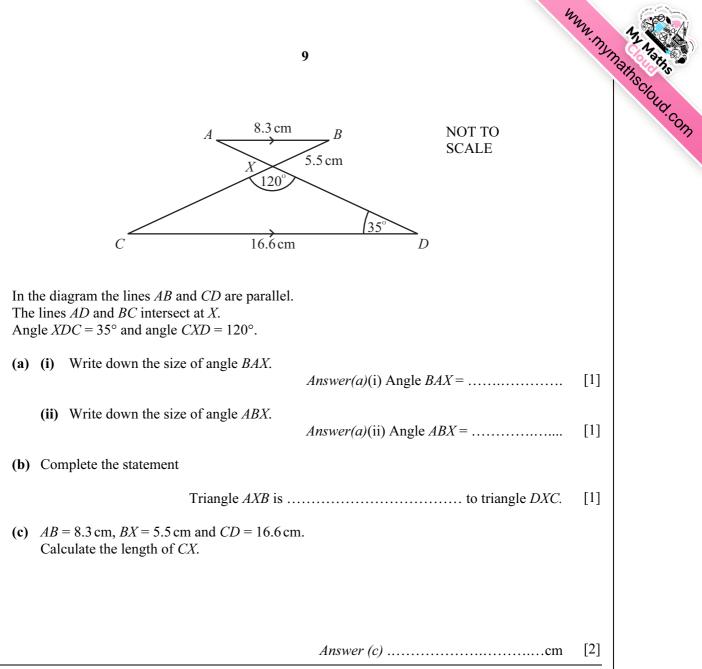


(b)

17

(a)

[3] *Answer* (*b*)



9

8.3 cm NOT TO В SCALE



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