UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	MATHEMATICS						
	Paper 1 (Core)	0580/0	1 0581/01				
	Candidates answer o Additional Materials:	on the Question Paper. Electronic calculator Geometrical instruments October/N Mathematical tables (optional) Tracing paper (optional)	November 2004 1hour				
Candidate Name							
Centre Number		Candidate Number					
READ THESE INSTRUCTIONS FIRST							
Write your Ce	entre number, candida	te number and name on all the work you har	nd in.				
Write in dark blue or black pen in the spaces provided on the Question Paper.							
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 THE BARCODE.							
		EAS BETWEEN THE PAGES.					
Answer all qu							
-		on it must be shown below that question.					
The number of	of marks is given in bra	ackets [] at the end of each question or part					
The total num	ber of marks for this p	paper is 56.	For Examiner's Use				
Electronic calculators should be used.							
If the degree							
not exact, giv							
degrees to or	e decimal place.						

For π , use either your calculator value or 3.142.

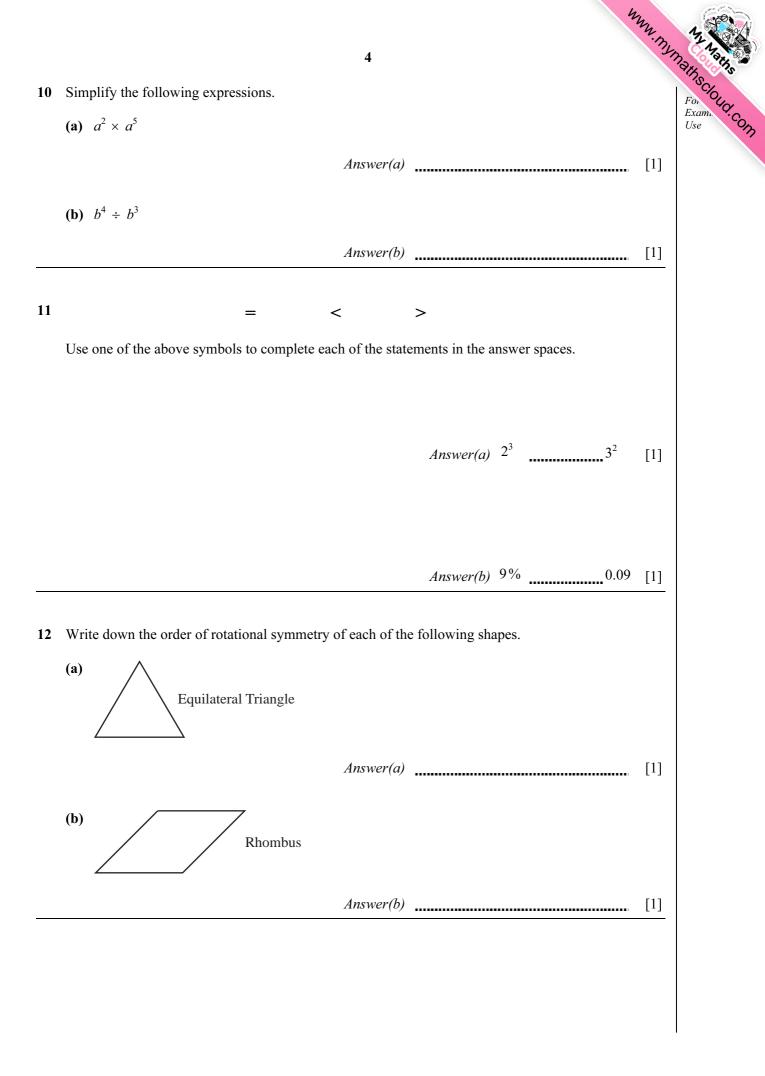
This document consists of 9 printed pages and 3 blank pages.

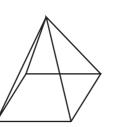
WWW.MYM3HScloud.com

mm	
2	ma
At a weather centre the temperature at midnight was -21 °C.	
By noon the next day it had risen to -4 °C. By how many degrees had the temperature risen?	Ex U
Answer°C [1]	
Place brackets in the following calculation to make it a correct statement.	
$10 - 5 \times 9 + 3 = 60$ [1]	
Write $\frac{5}{9}$ as a decimal, correct to two decimal places.	
Answer [2]	
When $x = 5$ find the value of	
(a) $4x^2$,	
Answer(a) [1]	
(b) $(4x)^2$.	
$Answer(b) \qquad [1]$	
Antonia is making a cake. She uses currants, raisins and sultanas in the ratio	
currants : raisins : sultanas = $4 : 3 : 5$.	
The total mass of the three ingredients is 3.6 kilograms. Calculate the mass of sultanas.	
Answer kg [2]	
_	At a weather centre the temperature at midnight was -21 °C. By noon the next day it had risen to -4 °C. By how many degrees had the temperature risen? $Answer \dots ^{\circ}C [1]$ Place brackets in the following calculation to make it a correct statement. $10 - 5 \times 9 + 3 = 60 $ [1] Write $\frac{5}{9}$ as a decimal, correct to two decimal places. $Answer \dots $ [2] When $x = 5$ find the value of (a) $4x^2$, $Answer(a) \dots $ [1] (b) $(4x)^2$. Antonia is making a cake. She uses currants, raisins and sultanas in the ratio currants : raisins : sultanas = 4 : 3 : 5. The total mass of the three ingredients is 3.6 kilograms. Calculate the mass of sultanas.

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		MWW. MYMAMS	
	3	Umath	Noth.
6	Write as a 3-figure bearing the direction	For	Sciou
	(a) West,	Exa Use	amı.
	Answer(a)		
	(b) North-East.		
	Answer(b)	. [1]	
7	Reflex Right Acute Obtuse		
	Use one of the above terms to describe each of the angles given.		
	(a) 100°		
	Answer(a)	[1]	
	(b) 200°		
	(x) 200 Answer(b)	[1]	
	Answer(b)		
8	$\mathbf{a} = \begin{pmatrix} 3 \\ 4 \end{pmatrix}$ and $\mathbf{b} = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$		
	Work out $\mathbf{a} - 2\mathbf{b}$.		
	Answer	[2]	
•	$\frac{3}{5} \div \frac{7}{10} = \frac{6}{7}$		
	Show how this calculation is done without using a calculator.		
	Write down the working.		
	Answer		
		[2]	



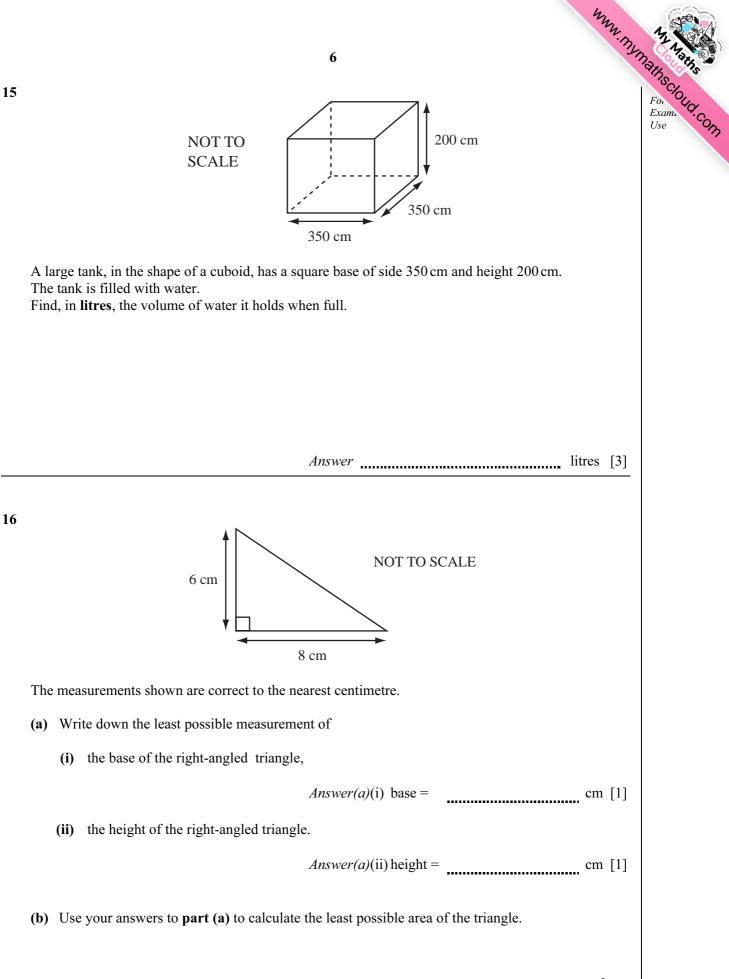


The diagram shows a pyramid with a square base. All the sloping edges are the same length. In the space below sketch a net of the pyramid. WWW. MYMathscloud.com

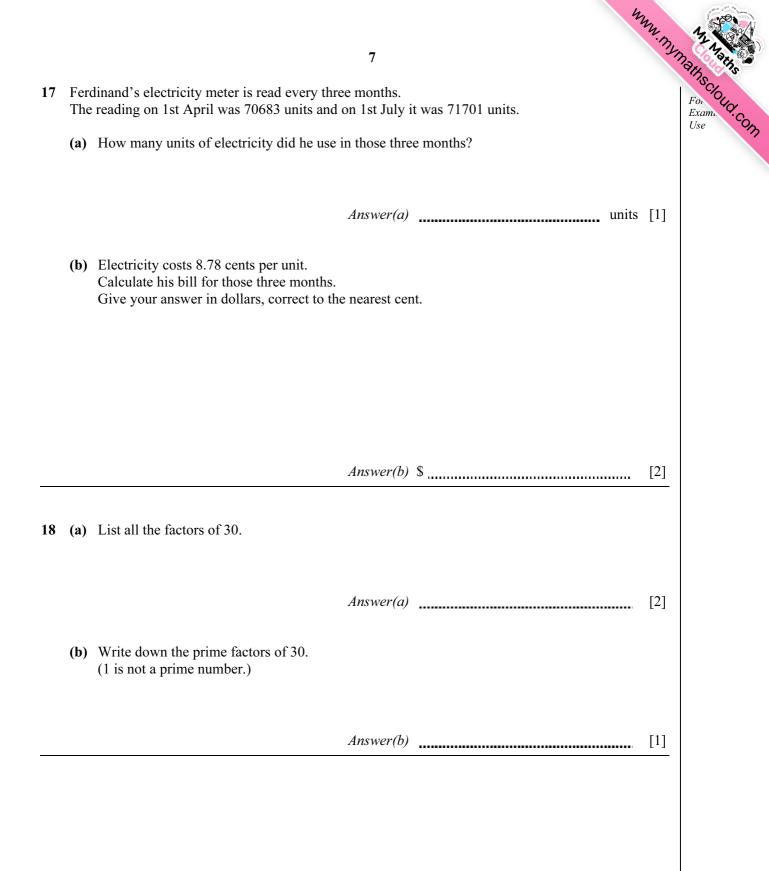
Bernard is buying a radio priced at \$19.60.The shopkeeper gives him a 15% discount.Calculate how much Bernard pays.

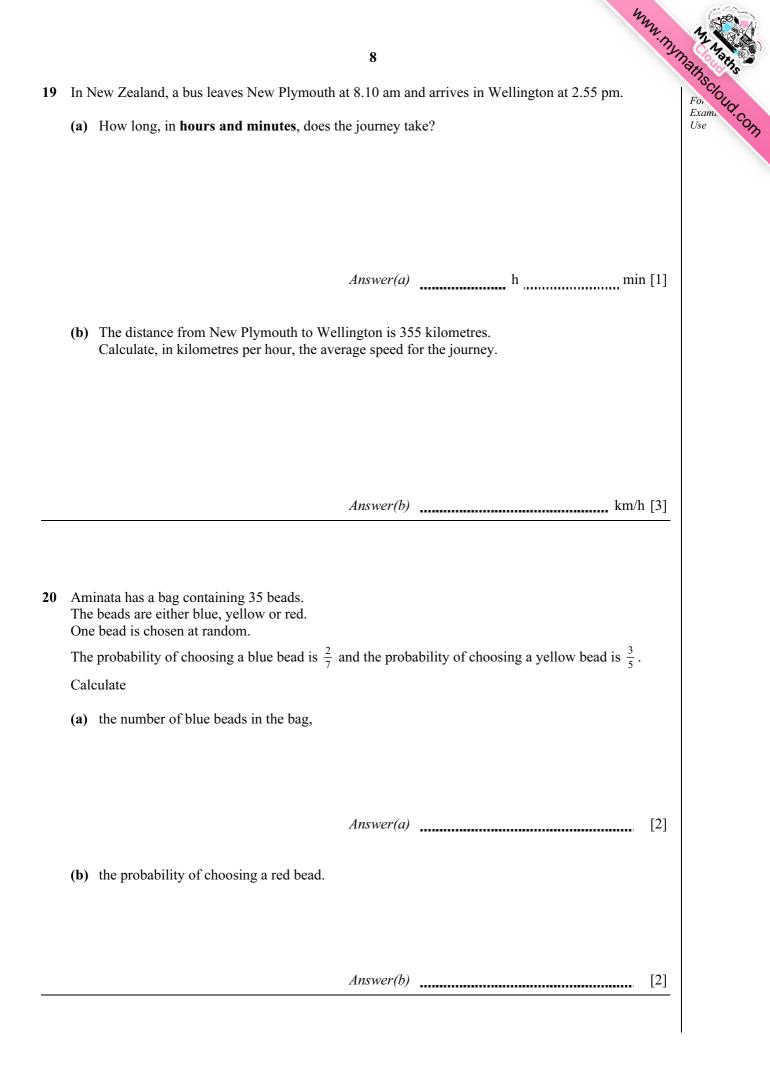
Answer \$

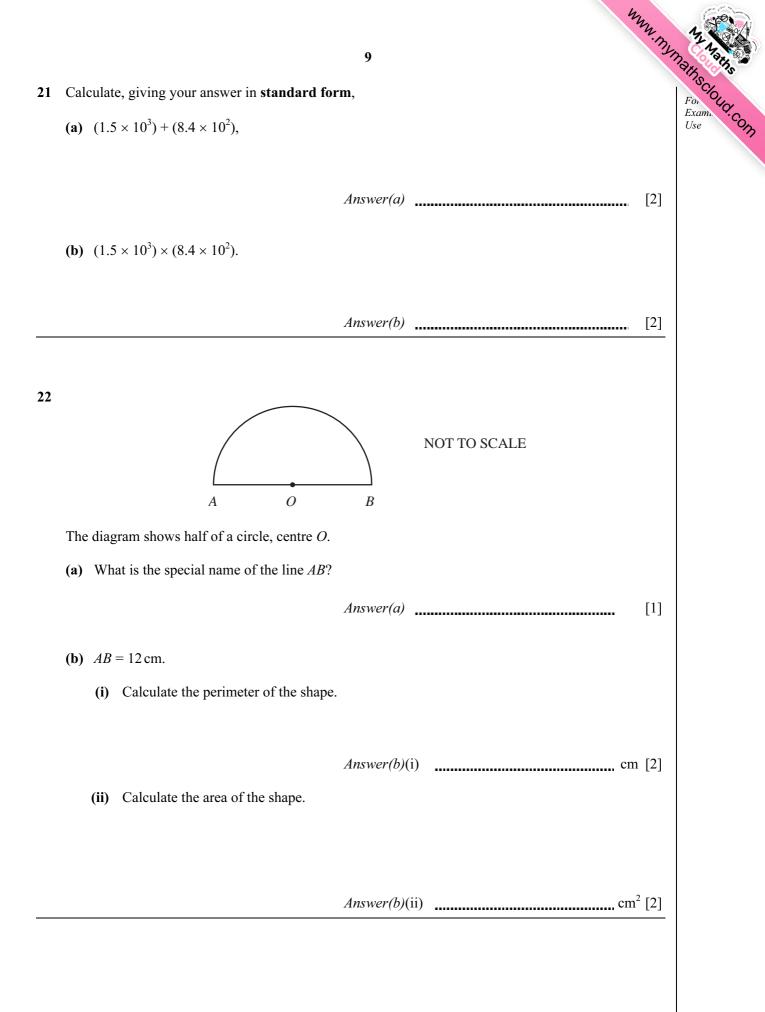
[3]



Answer(b) area =









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