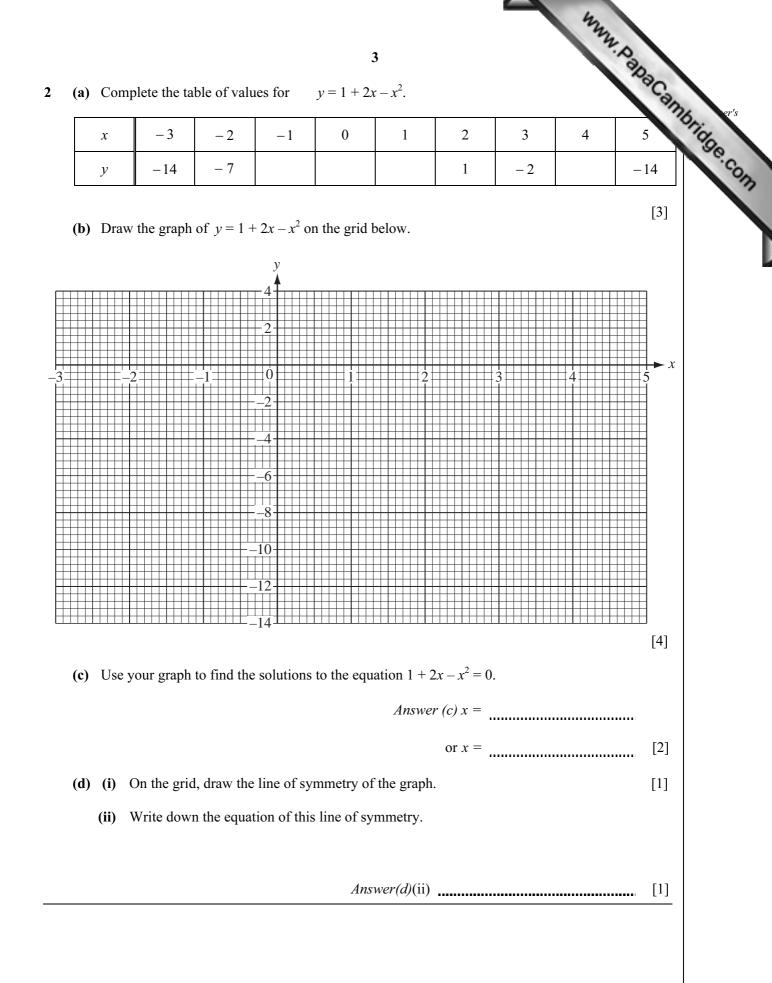
			EXAMINATIONS Calucation
		CAMBRIDGE INTERNATIONAL General Certificate of Secondary	EXAMINATIONS / Education
	MATHEMATICS		
	Paper 3 (Core)	0580/	03 0581/03
	М		May/June 2005 <b>2 hours</b>
Candidate Name			
Centre Number		Candidate Number	
READ THES	E INSTRUCTIONS FIRS	т	
Write in dark You may use Do not use s DO <b>NOT</b> WF	blue or black pen in the s a pencil for any diagrams taples, paper clips, highlig TTE IN THE BARCODE.	number and name on all the work you h paces provided on the Question Paper s or graphs. ghters, glue or correction fluid.	
-	needed for any question it	t must be shown below that question. ets[] at the end of each question or pa	-
The total pur	mbor of marks for this non-	or is 104	For Examiner's Use
	mber of marks for this pape alculators should be used.	UI 10 104.	
		ed in the question, and if the answer is	
-		nificant figures. Given answers	
-	o one decimal place.		
For $\pi$ , use e	ither your calculator value	or 3.142.	

This document consists of  ${\bf 15}$  printed pages and  ${\bf 1}$  blank page.

	333	
	2	
Juai	ha is travelling by plane from Spain to England.	Car
(a)	2 ha is travelling by plane from Spain to England. Her case weighs 17.2 kilograms. The maximum weight allowed is 20 kilograms. By how much is the weight of her case below the maximum allowed? Answer (a) kg	72
	Answer (a)	g[1]
(b)	She changes 150 euros ( $\in$ ) into pounds ( $\pounds$ ). The exchange rate is $\notin 1 = \pounds 0.71$ . Calculate how much she receives.	
	Answer (b) £	[1]
		[1]
(c)	She travels from her home to the airport by train. She catches a train at 0955 and the journey takes 45 minutes.	
	(i) Write down the time she arrives at the airport.	
	Answer (c)(i)	[1]
	<ul><li>(ii) She has to wait until 12 10 to get on her plane. Work out how long she has to wait.</li></ul>	
	Answer (c)(ii) h min	[1]
(d)	The plane takes off at 1240 Spanish time, which is 1140 English time.	
	The flight takes $2\frac{1}{4}$ hours. What is the time in England when she arrives?	
	what is the time in Eligiand when she arrives.	
	Answer (d)	[1]
(e)	The plane has seats for 420 passengers. 15% of the seats are empty. How many passengers are on the plane?	



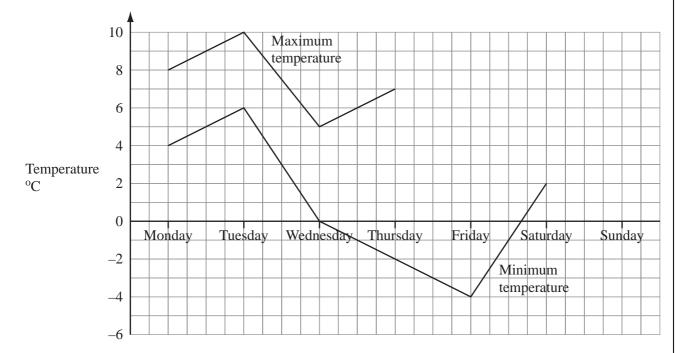
3				4Municipal SalurdayThursdayFriday-2-42					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	onig	
Minimum temperature °C	4	6	0	-2	-4	2		e.com	
Maximum temperature °C	8	10	5	7	2	7		]  ]	

The table shows the minimum and maximum temperatures on six days of a week.

- (a) (i) On Sunday the minimum temperature was 5 °C lower than on Saturday. The maximum temperature was 2 °C higher than on Saturday. Use this information to complete the table. [2]
  - (ii) Find the difference between the minimum and maximum temperatures on Thursday.

*Answer(a)*(ii) \_\_\_\_\_ °C [1]

(b) Use the table to complete the graphs below for all seven days.



[2]

(c) Use your graphs to find (i) on how many days the temperature fell below -1 °C,

www.papacambridge.com Answer(c)(i)

(ii) which day had the largest difference between minimum and maximum temperatures.

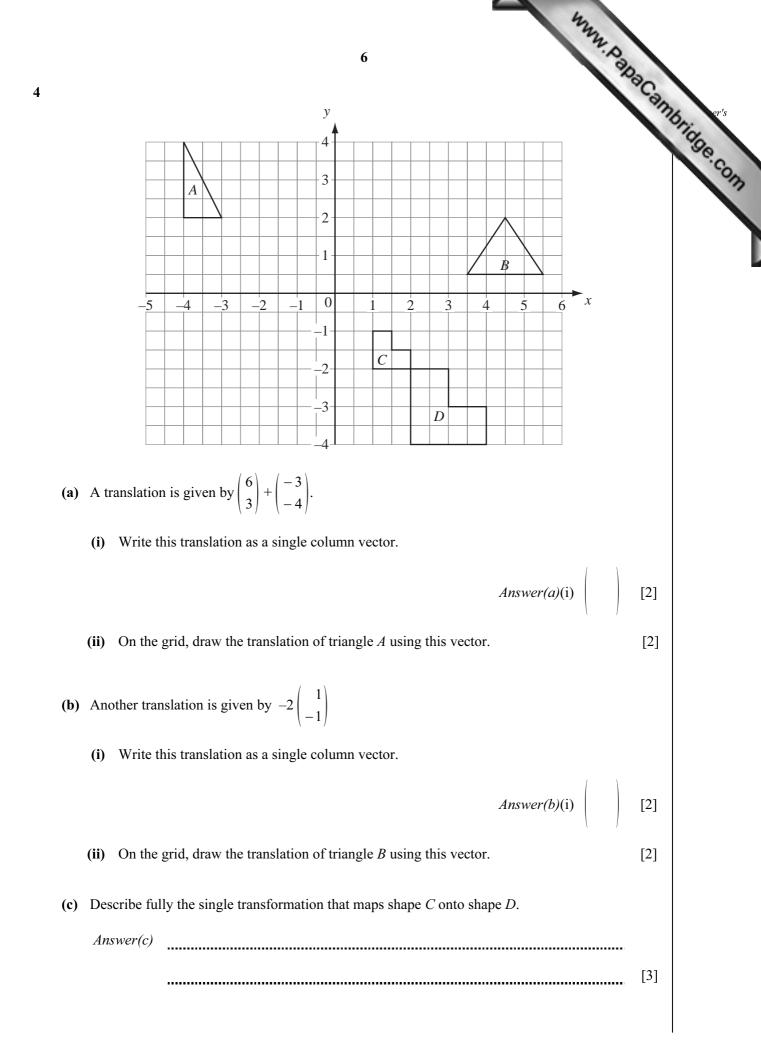
Answer(c)(ii) [1]

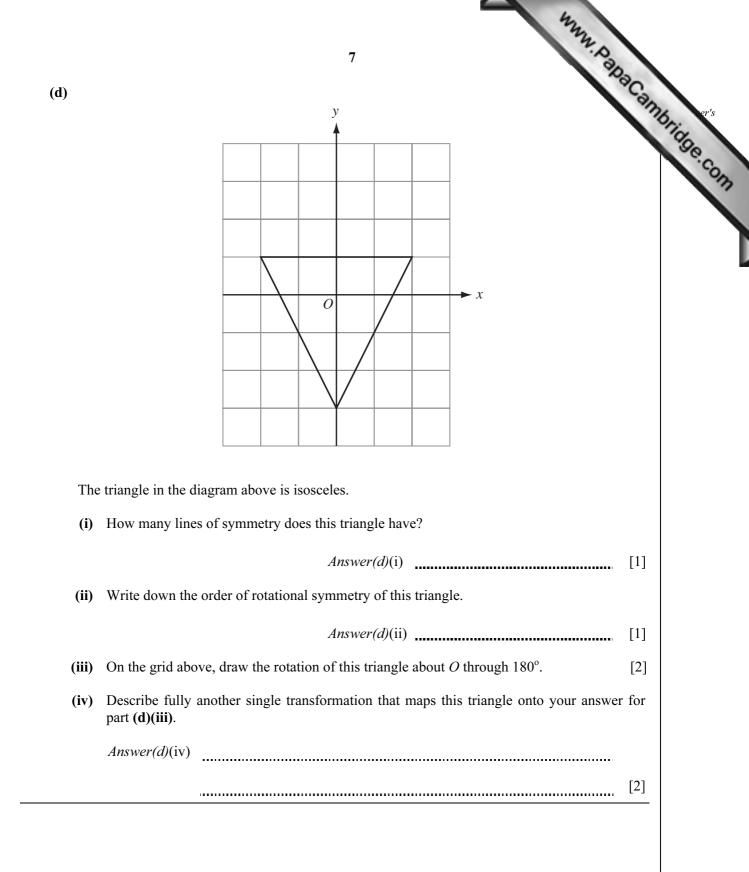
(d) The formula for changing degrees Celsius (C) to degrees Fahrenheit (F) is

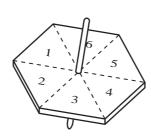
$$F = \frac{9C}{5} + 32.$$

Use the formula to change 6 degrees Celsius to degrees Fahrenheit. Show all your working.

> Answer(d) [2]







8

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[3]

(a) Asif tests a six-sided spinner.

The results of 60 spins are shown below.

3	3	6	5	6	1	2	6	5	2
3	4	4	4	3	4	6	5	2	1
6	3	6	4	1	5	3	6	2	6
6	6	3	6	1	6	6	5	1	6
1	6	2	5	3	6	4	2	3	5
1	4	4	1	5	4	6	6	2	3

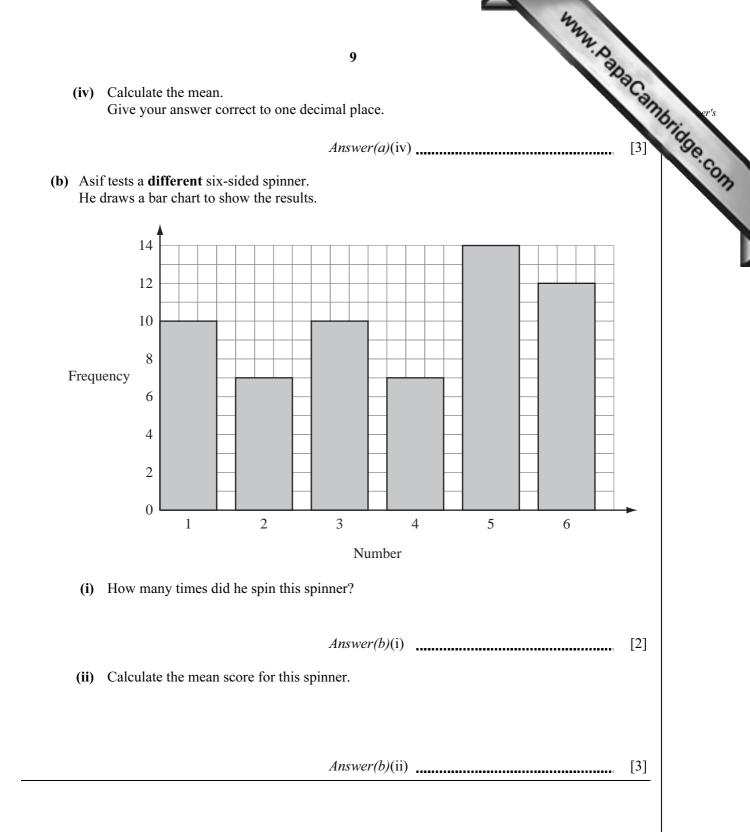
(i) Use these results to complete the frequency table.

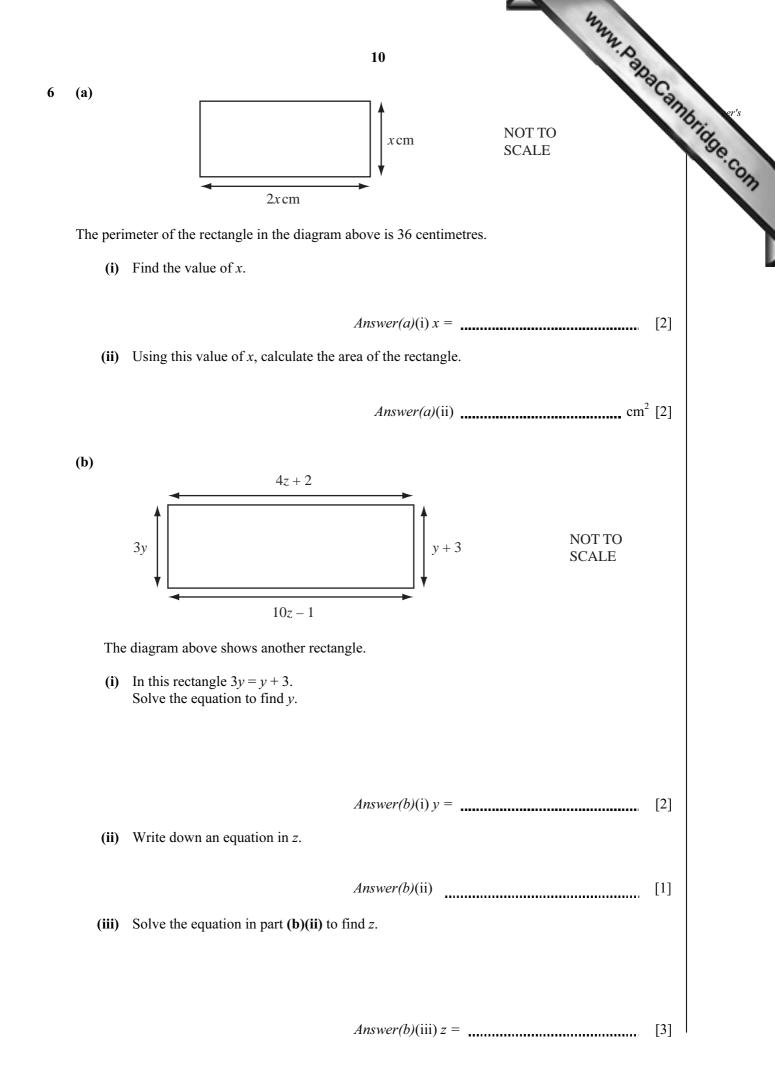
Number	Frequency
1	
2	
3	
4	
5	
6	

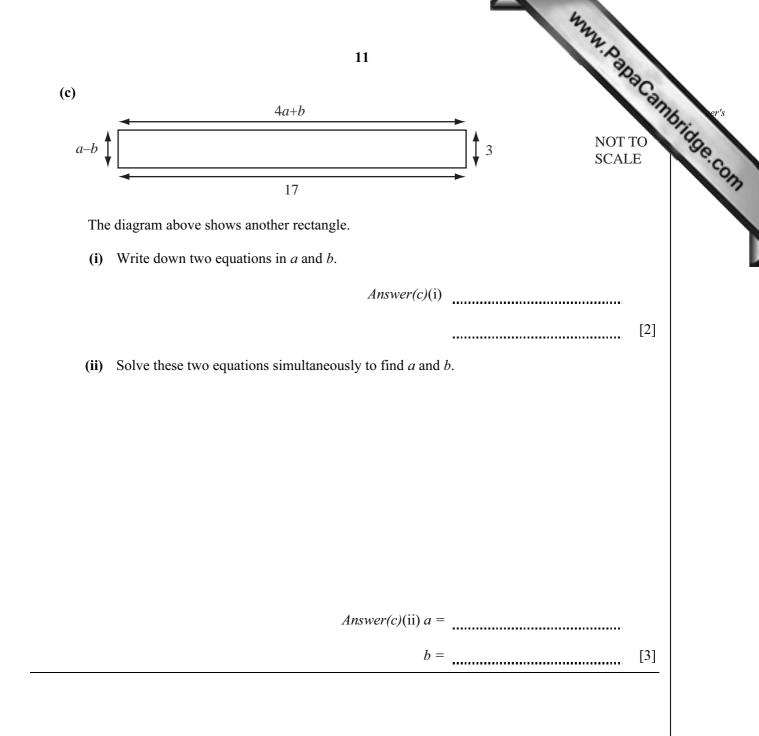
(ii) Write down the mode.

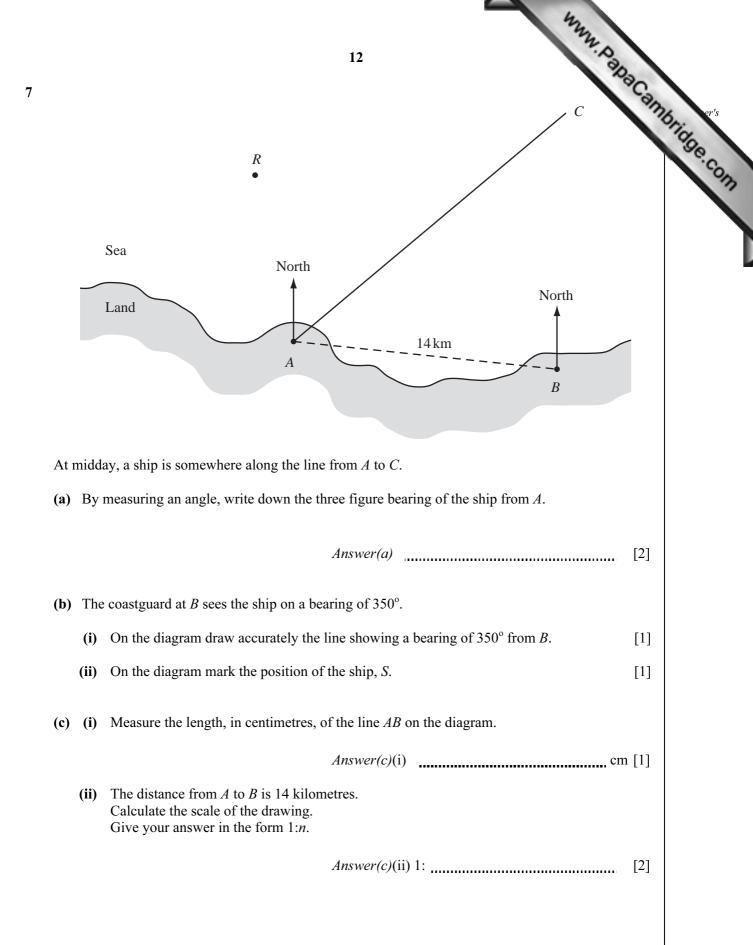
Answer(a)(ii) [1]

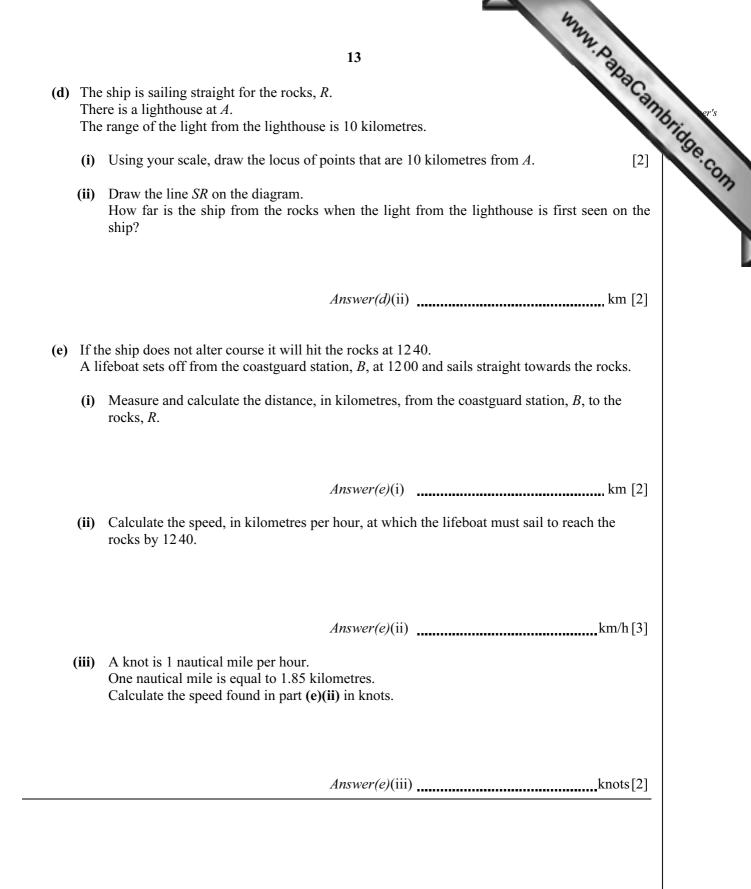
(iii) Find the median.

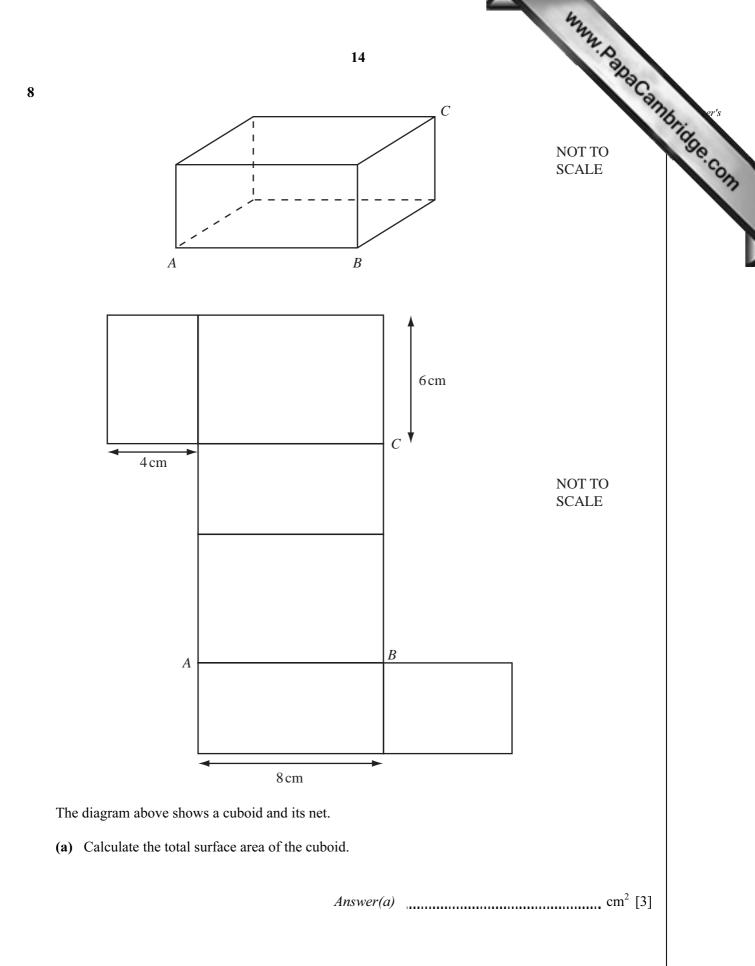


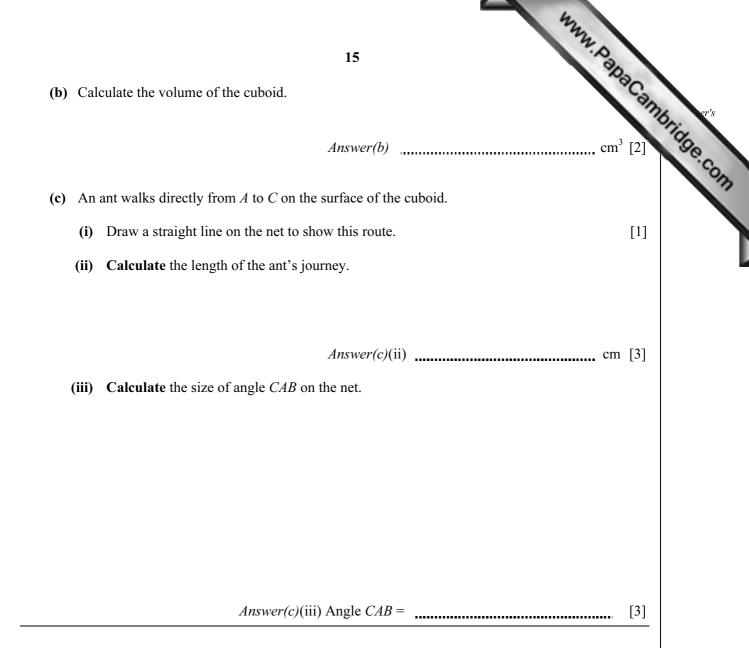














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