	INIVERSITY OF CAMBRIDGE INTER	NATIONAL EXAMINATIONS	MMM. Papacambri
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
MATHEMATICS			0581/32
Paper 3 (Core)			May/June 2012
			2 hours
Candidates answ	er on the Question Paper.		
Additional Materia	als: Electronic calculator Mathematical tables (optional)	Geometrical instruments Tracing paper (optional)	

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 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.

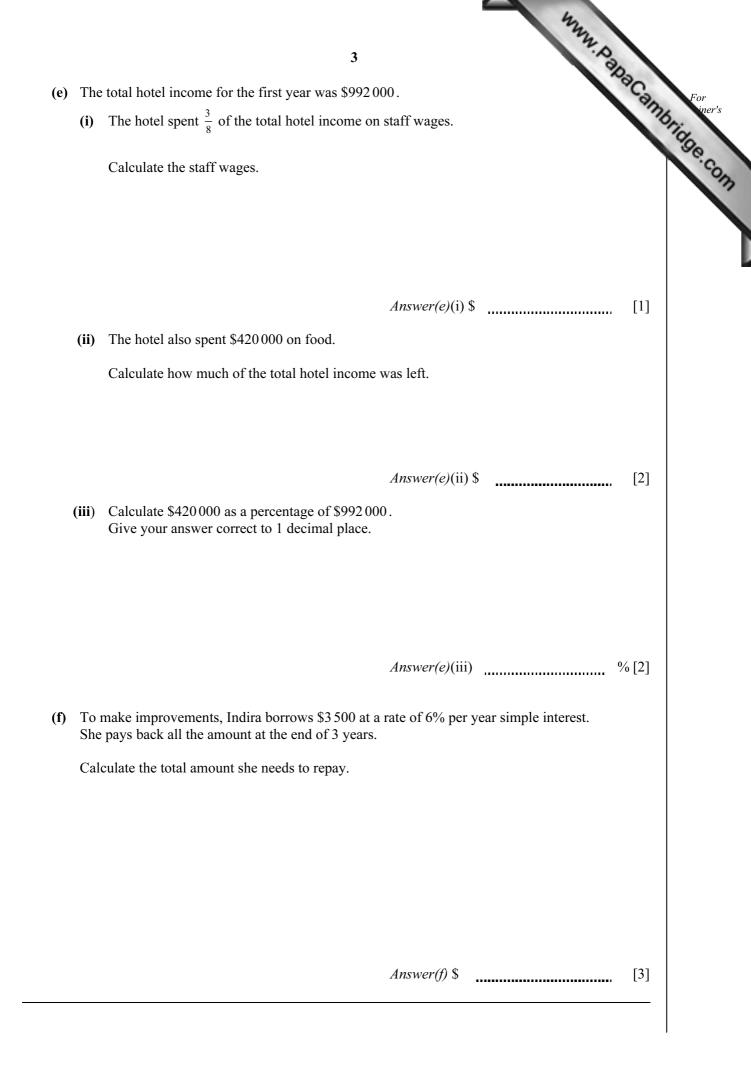
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

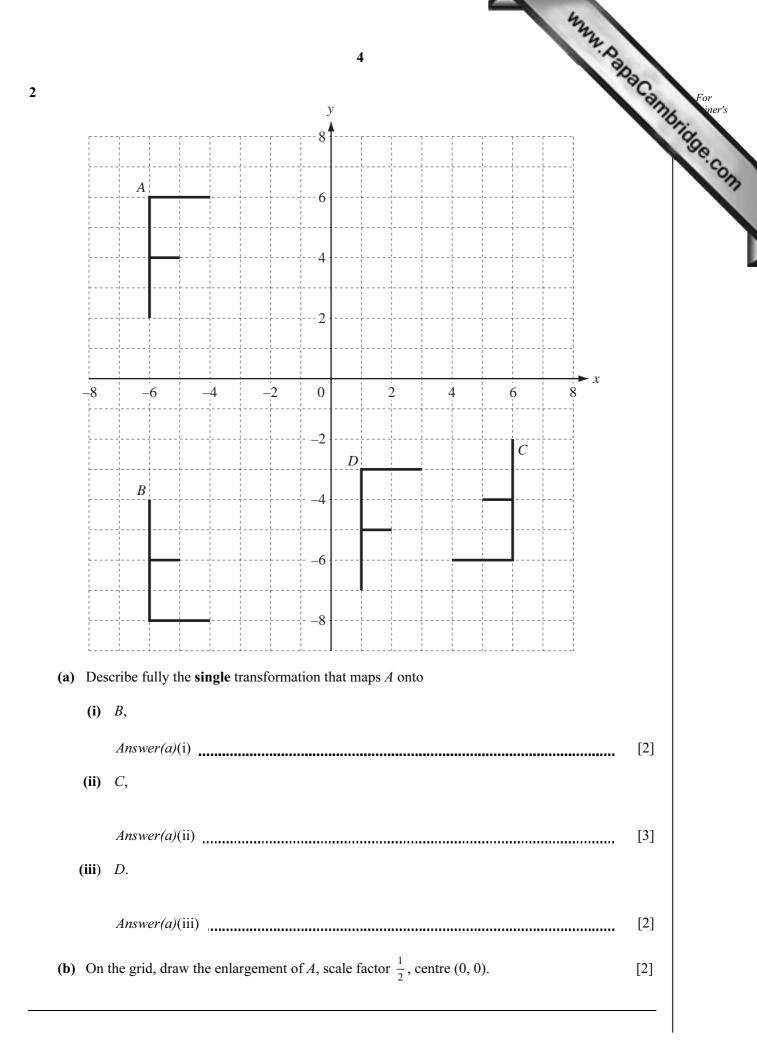
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 104.

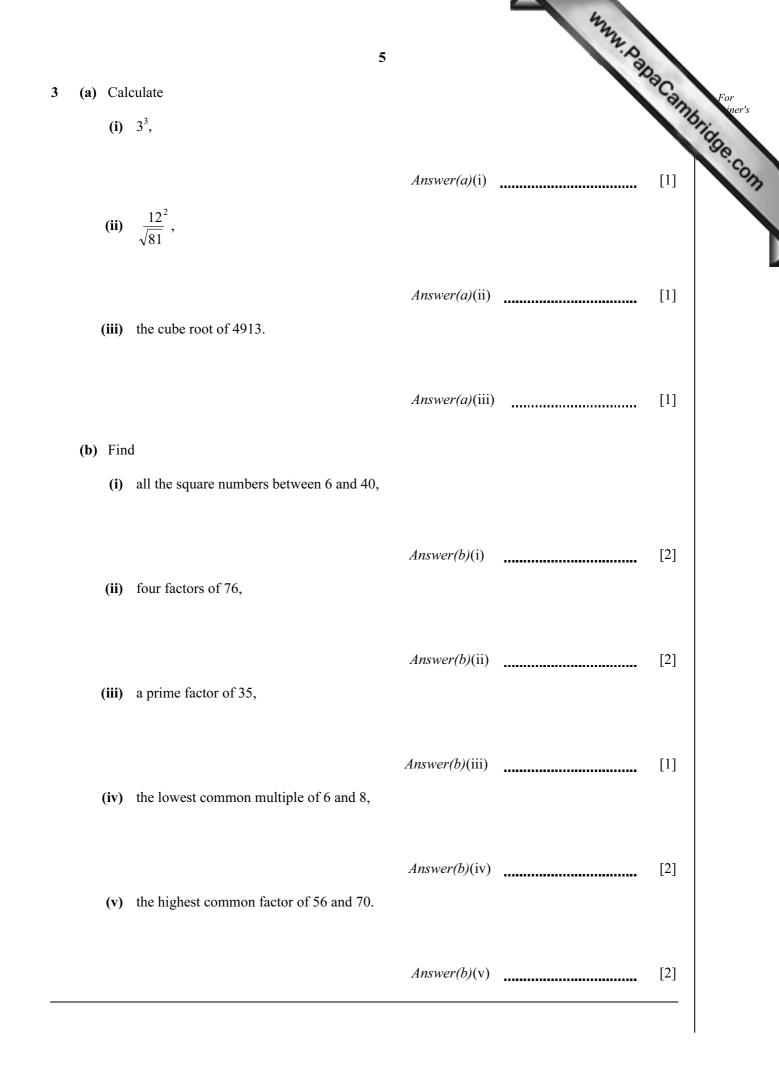
This document consists of 16 printed pages.

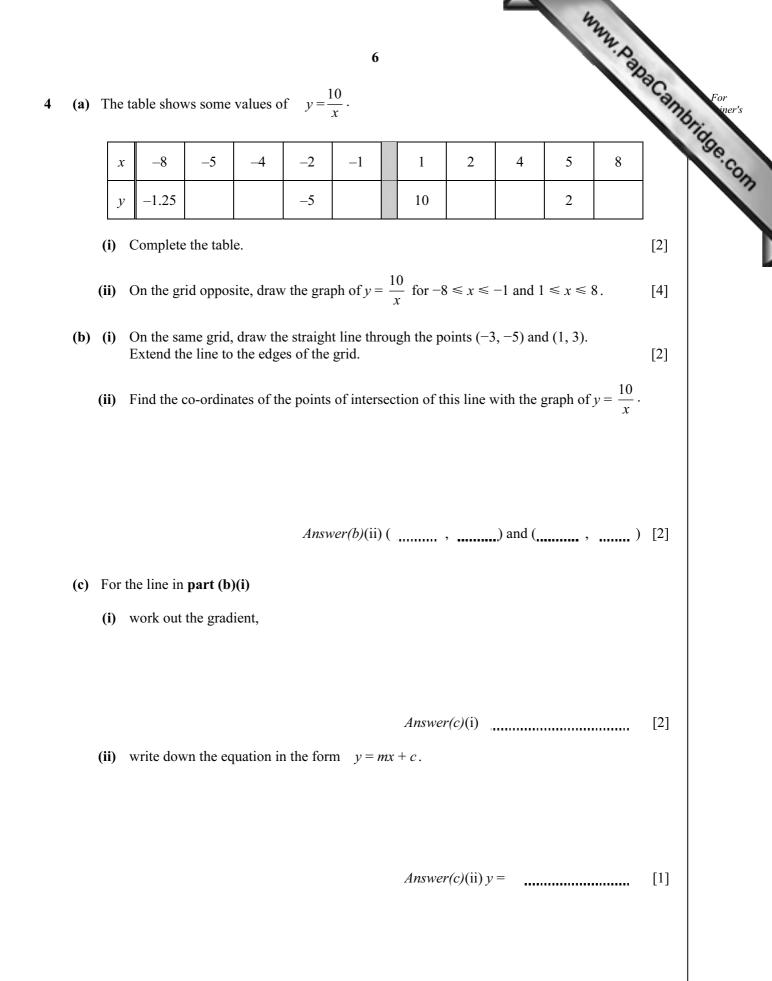


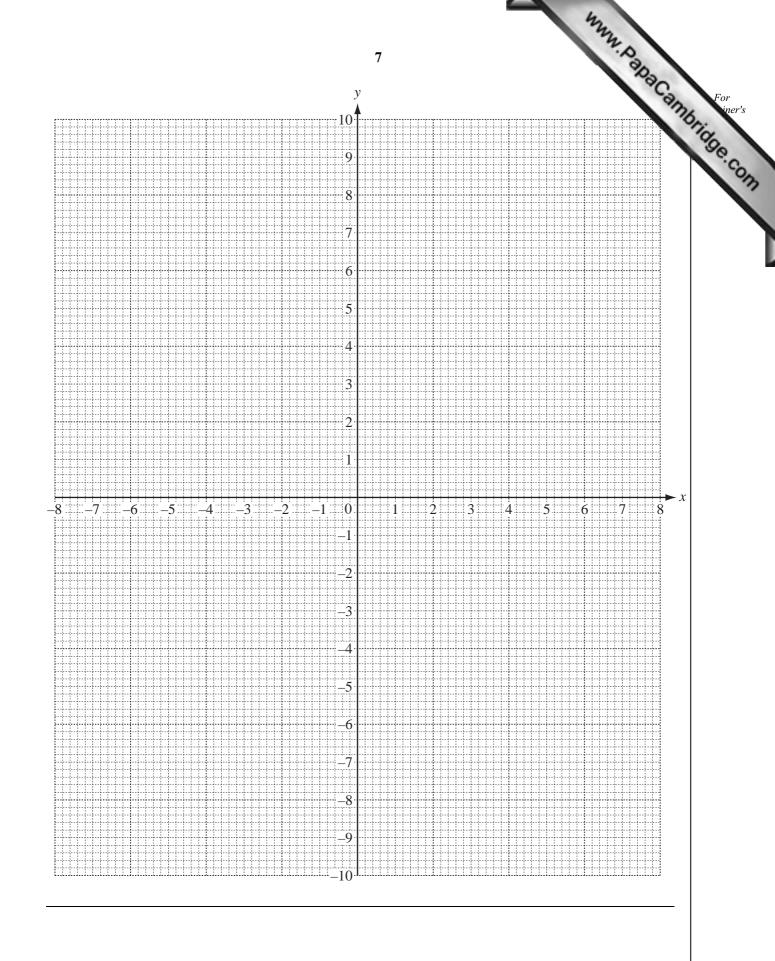
1	(a)	2 Indira buys 1250 square metres of land to build a hotel. Each square metre of land costs \$12. Calculate the cost of the land.	For iner's
	(b)	Answer(a) \$ [1] The cost of the land is 3% of the cost of the hotel. Calculate the cost of the hotel.	1
	(c)	Answer(b) \$ [2] The hotel has 84 rooms. The types of room are in the ratio family : double : single = 3 : 5 : 4. Calculate the number of double rooms.	
	(d)	Answer(c) [2] Each single room is a cuboid, 4.5 m long, 3.2 m wide and 2.8 m high. Calculate the volume of a single room.	
		<i>Answer(d)</i> m ³ [2]	

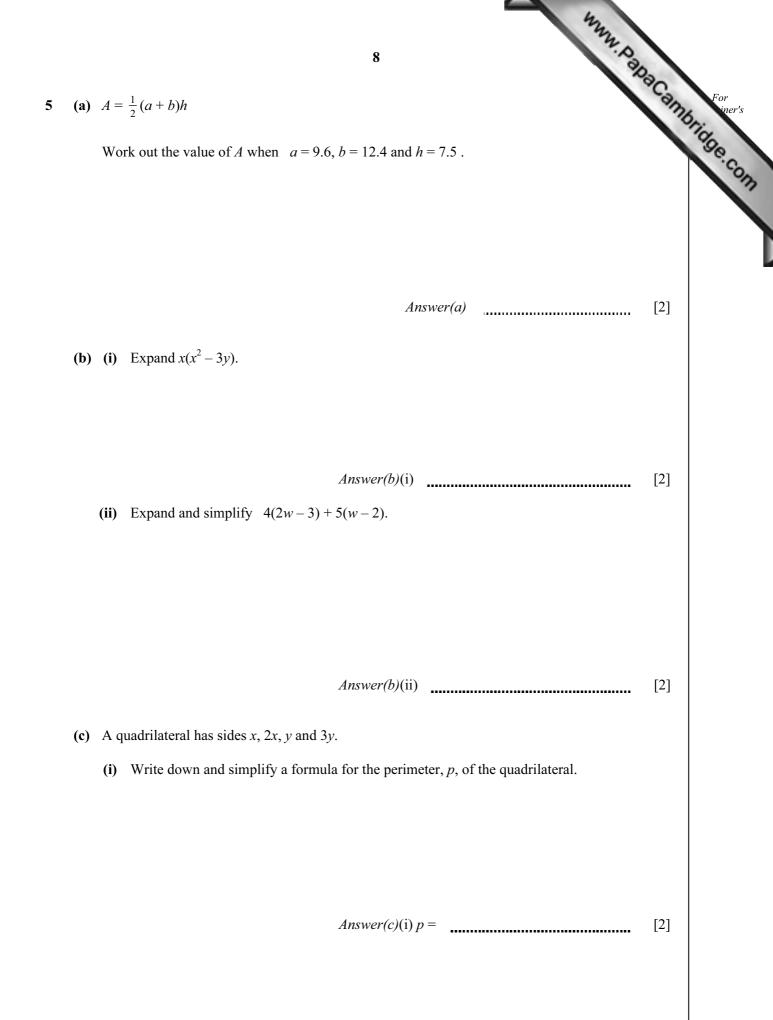


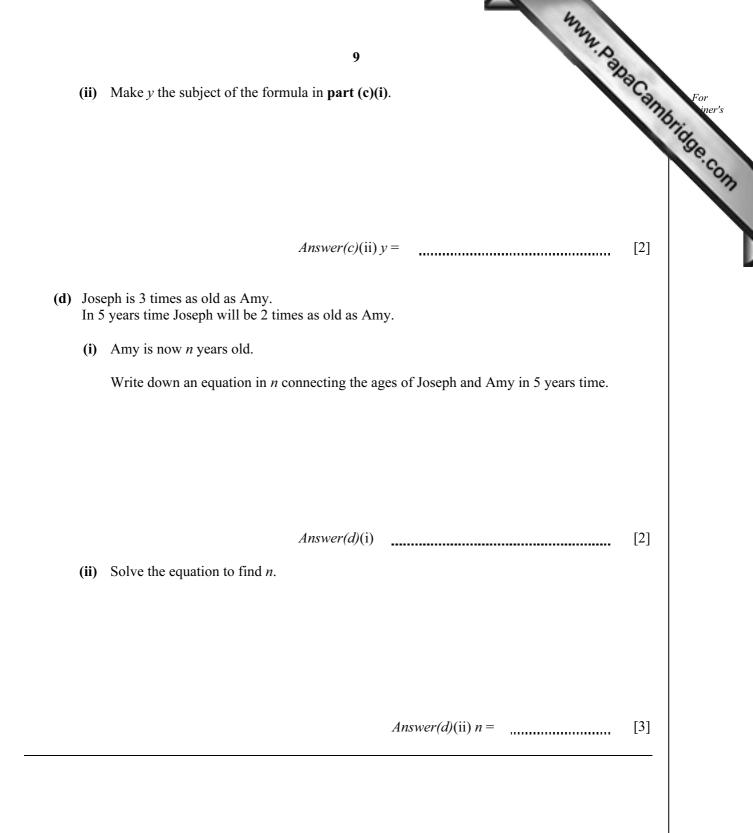












			1()			WWW Baba	
e total distance, to the nearest kilometre, travelled by a taxi each day for 24 days is shown the For								
100	98	95	98	97	99	96	98	Camp For iner's
97	98	97	99	100	96	97	99	Conn
100	250	97	99	98	95	97	96	

6

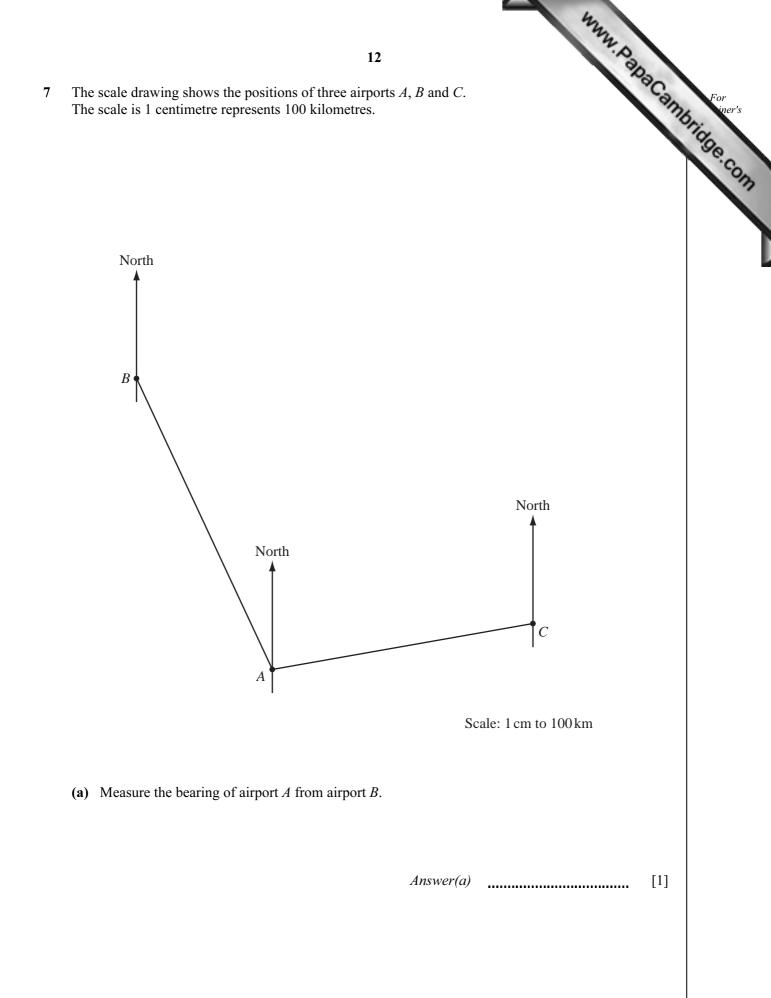
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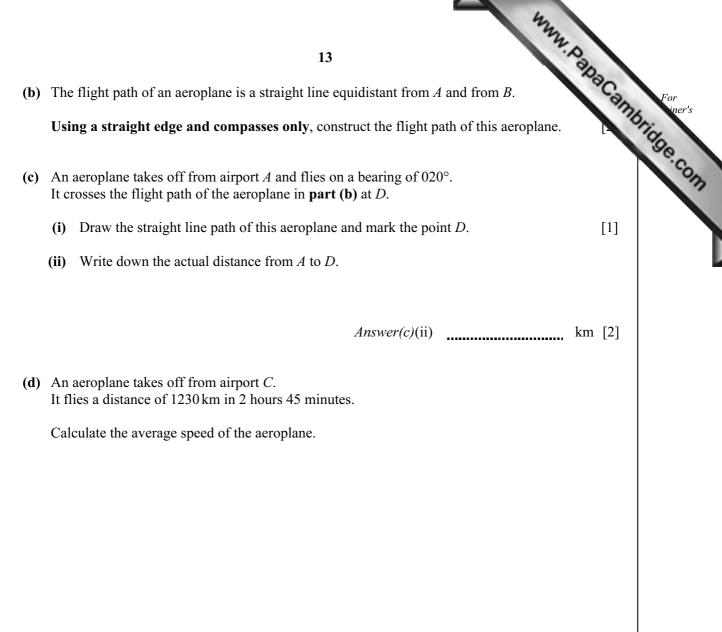
(a) (i) Complete the frequency table. You may use the tally column to help you.

Distance travelled (km)	Tally	Number of days
95		
96		
97		
98		
99		
100		
250		

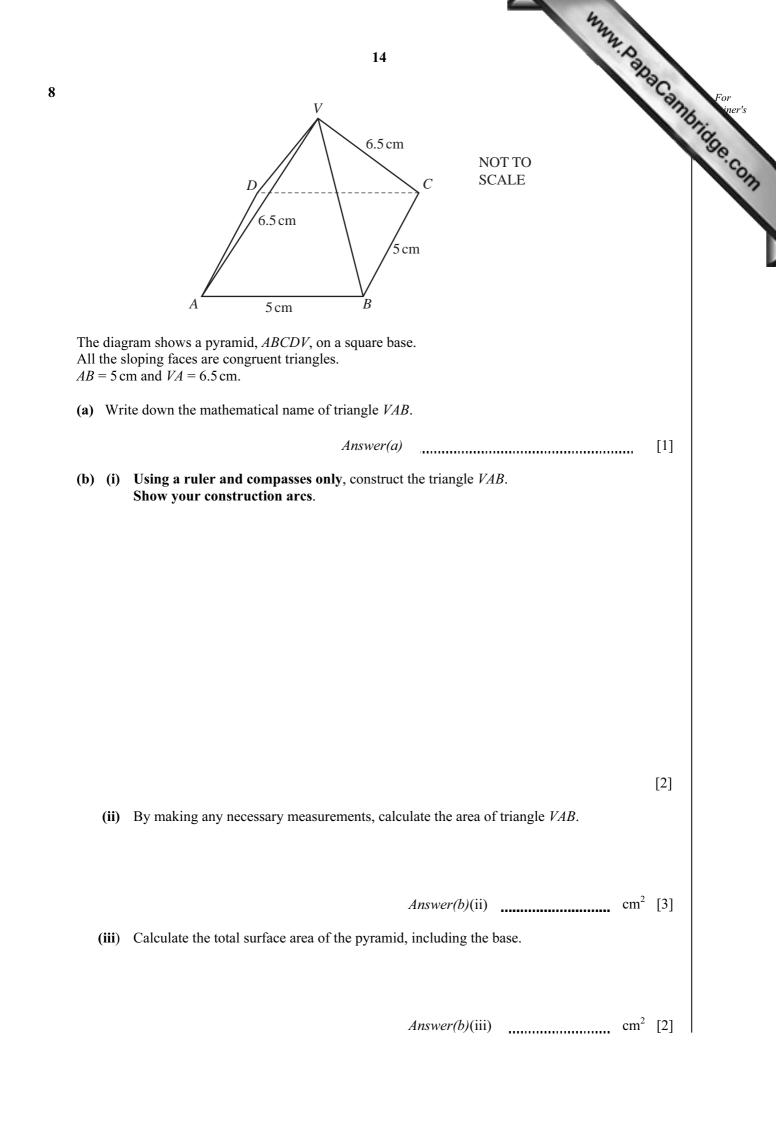
[2]

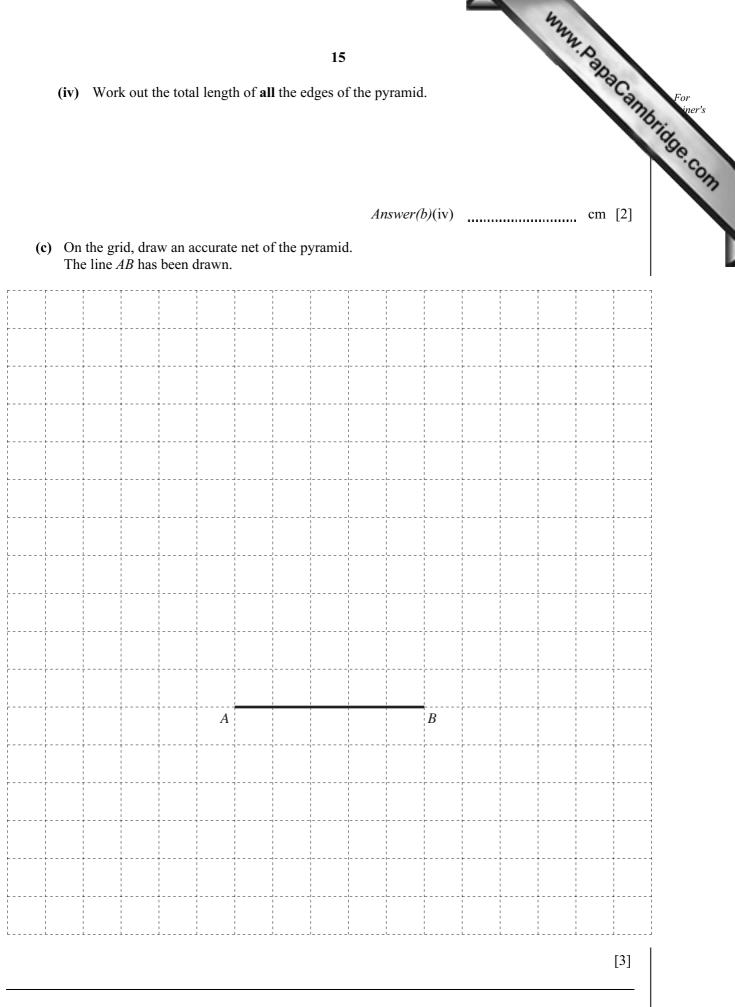
		12	
	(ii)	11 Write down the mode. Answer(a)(ii) km [1] Find the median.	For iner's
	(iii)	Answer(a)(ii) km [1]	Idge.com
	(iv)	Answer(a)(iii) km [2]) Calculate the mean.	L
	(v)	<i>Answer(a)</i> (iv)	
		Answer(a)(v) because [1]	
(b)	Fine	ind the probability that, on a day chosen at random, the taxi travels 98 km or more.	
		<i>Answer(b)</i> [2]	



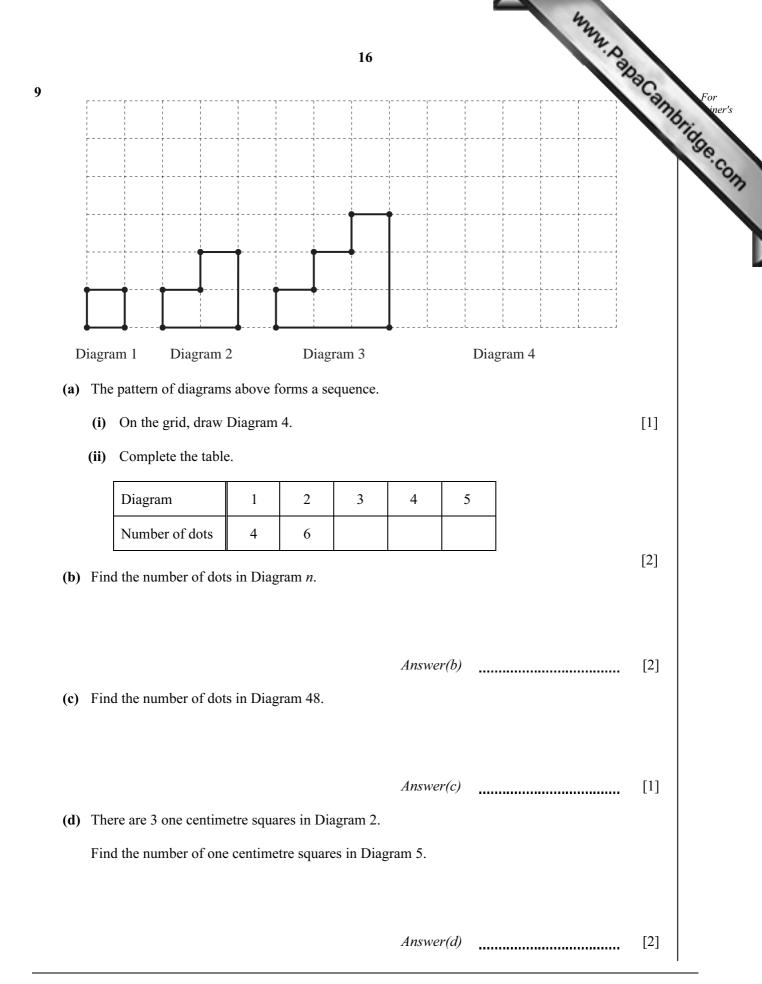


Answer(d) km/h [2]





Question 9 is printed on the next page.



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