	ERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS national General Certificate of Secondary Education	www.strapape
TRE BER	CANDIDATE	
MBRIDGE INTER	IATIONAL MATHEMATICS	0607/32
per 3 (Core)		May/June 2012
	1	hour 45 minutes
andidates answer o	the Question Paper	
dditional Materials:	Geometrical Instruments Graphics Calculator	

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.

Do not use staples, paper clips, highlighters, glue or correction fluid.

You may use a pencil for any diagrams or graphs.

DO NOT WRITE IN ANY BARCODES.

Answer all the questions.

Unless instructed otherwise, give your answers exactly or correct to three significant figures as appropriate. Answers in degrees should be given to one decimal place.

For π , use your calculator value.

You must show all the relevant working to gain full marks and you will be given marks for correct methods, including sketches, even if your answer is incorrect.

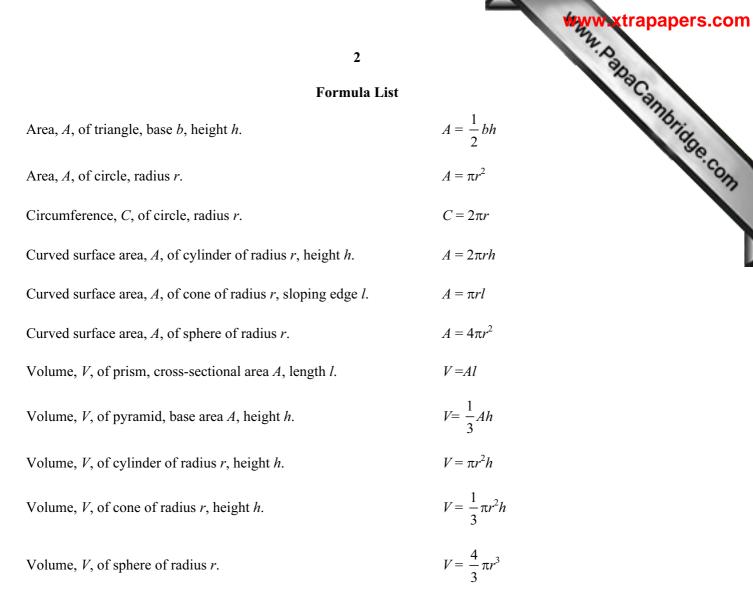
The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 96.

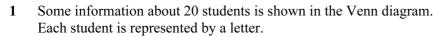
F	For Examiner's Use

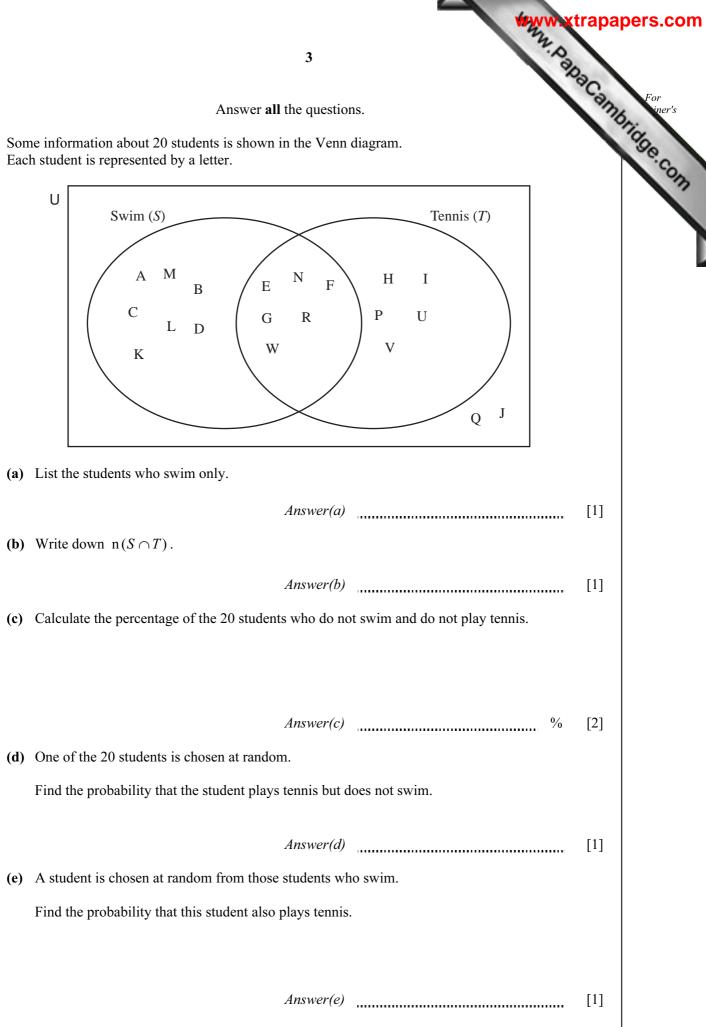
This document consists of 18 printed pages and 2 blank pages.





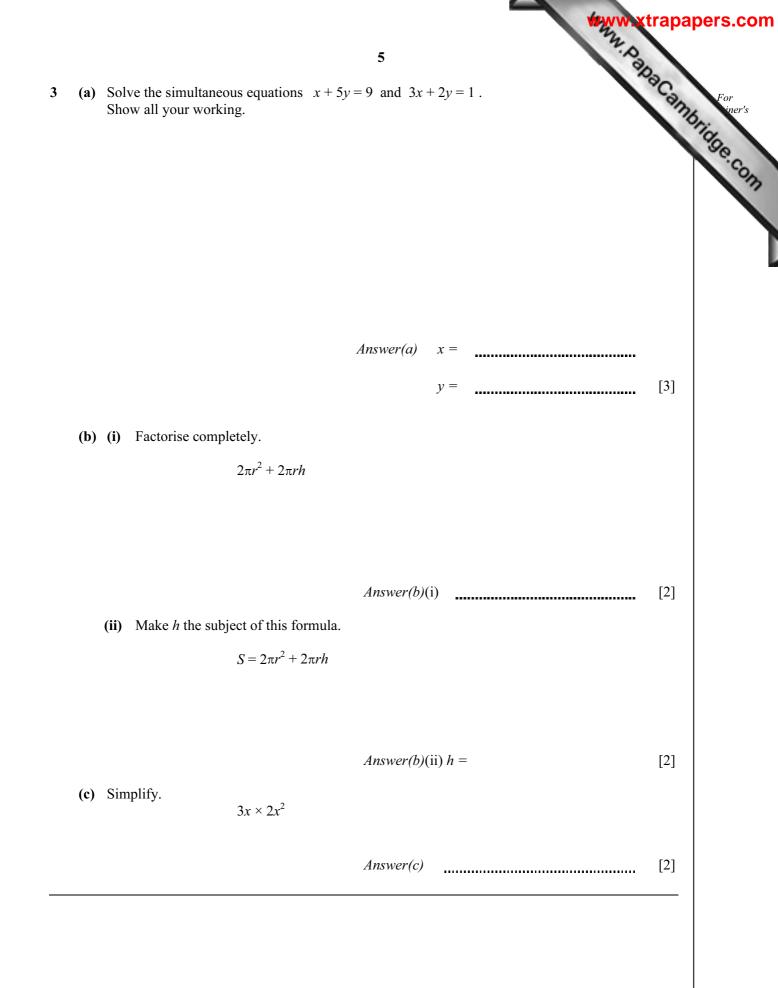
Answer all the questions.

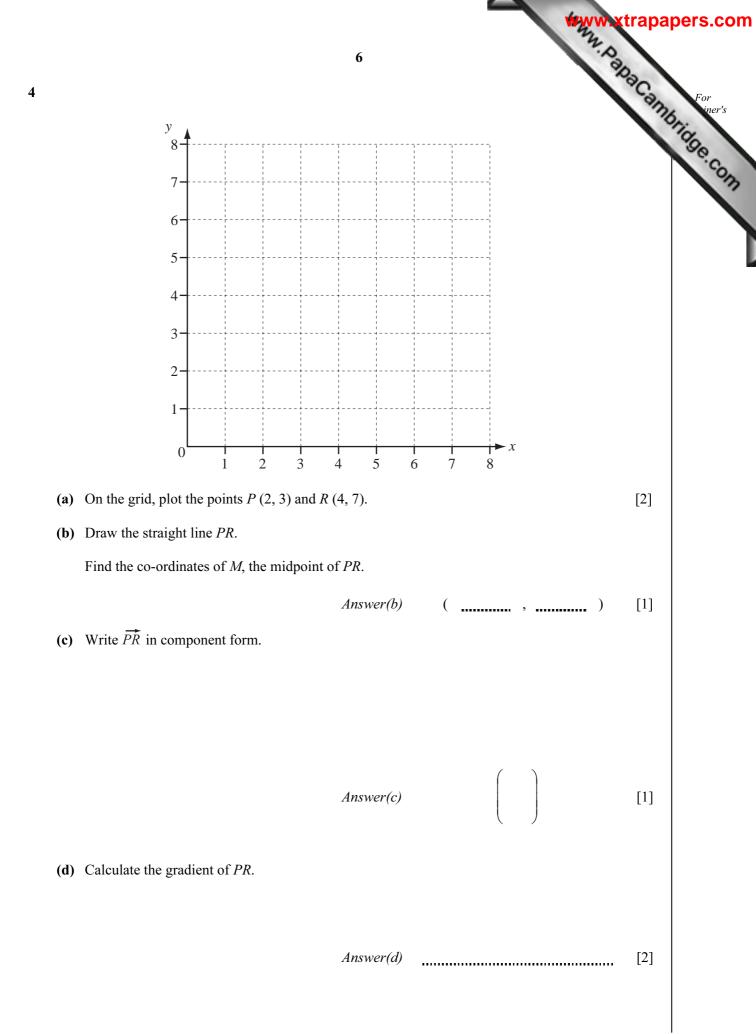




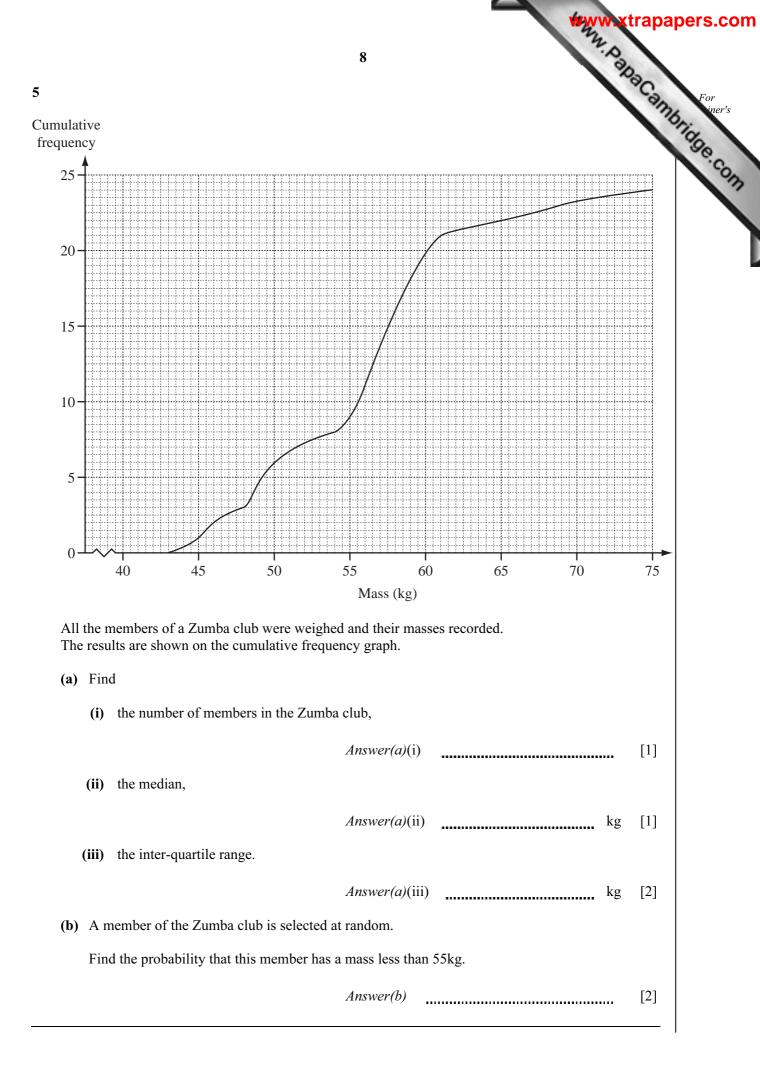
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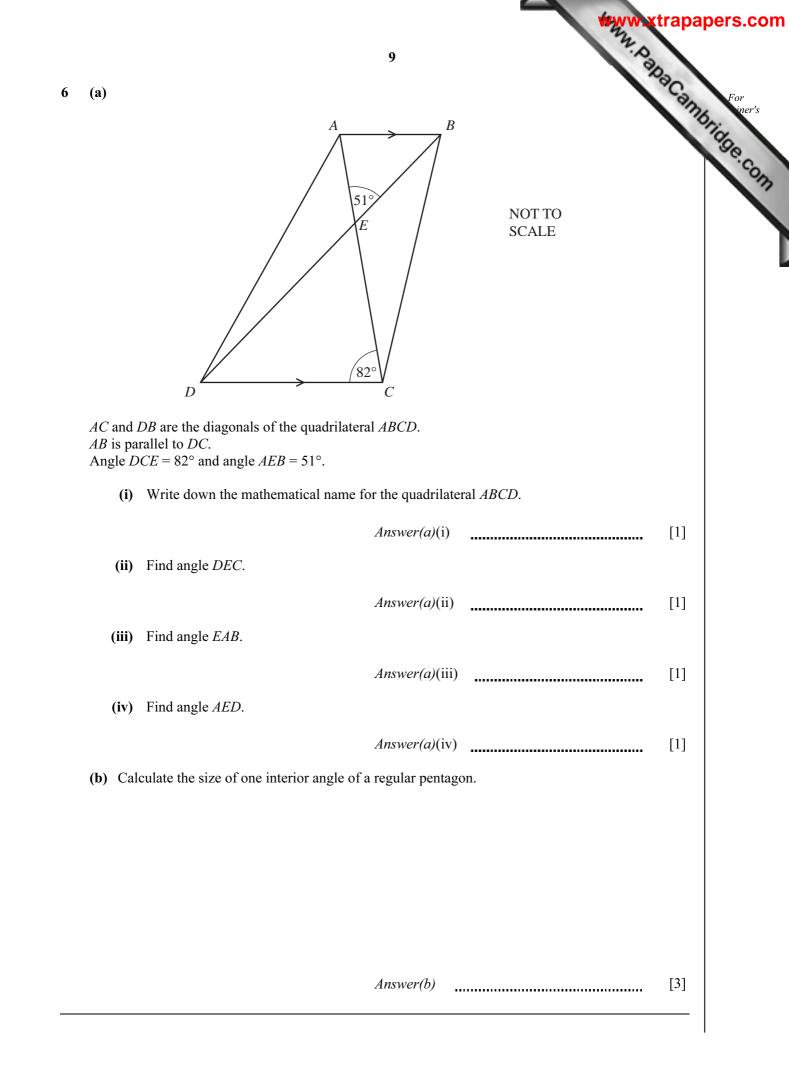
	Mary Wax	trapapers.co
	4	For siner's
Mr	s Edge, Mr Ray and Dr Surd teach mathematics at Imbright Academy.	For
The	ey spend \$7000 on equipment in the ratio	Bride Ner's
	Mrs Edge: Mr Ray: Dr Surd = 33: 35: 32.	Se.co
(a)	(i) Show that Mrs Edge spends \$2310.	
		[2]
	(ii) Work out how much Mr Doy and Dr Sund grand	[2]
	(ii) Work out how much Mr Ray and Dr Surd spend.	
	Answer(a)(ii) Mr Ray \$	
	Dr Surd \$	[2]
(b)	Mrs Edge spends all her \$2310 on 22 calculators.	
	Find the cost of one calculator.	
	Answer(b) \$	[1]
	Dr Surd huve a lanton computer for her class	
(c)	Dr Surd buys a laptop computer for her class. The laptop costs \$1320.	
	Find how much Dr Surd has left to spend.	
	Answer(c) \$	[1]
(d)	Mr Ray spends 70% of his money on text books.	L-J
(-)	Find how much Mr Ray spends on text books.	
	Answer(d) \$	[2]

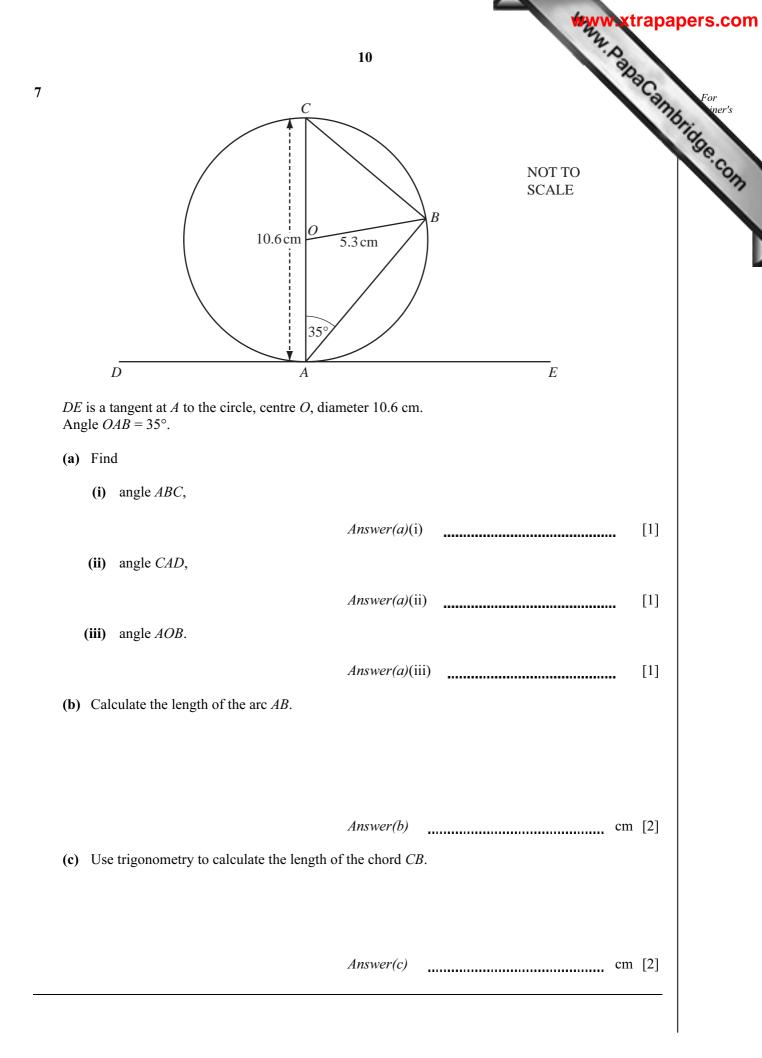


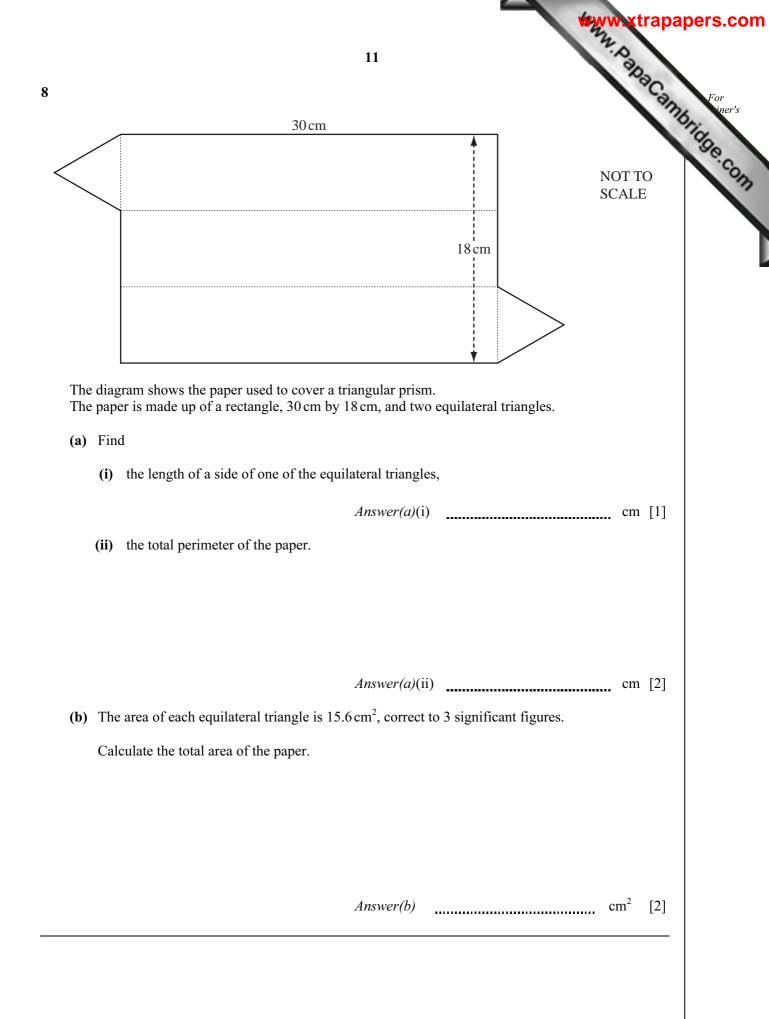


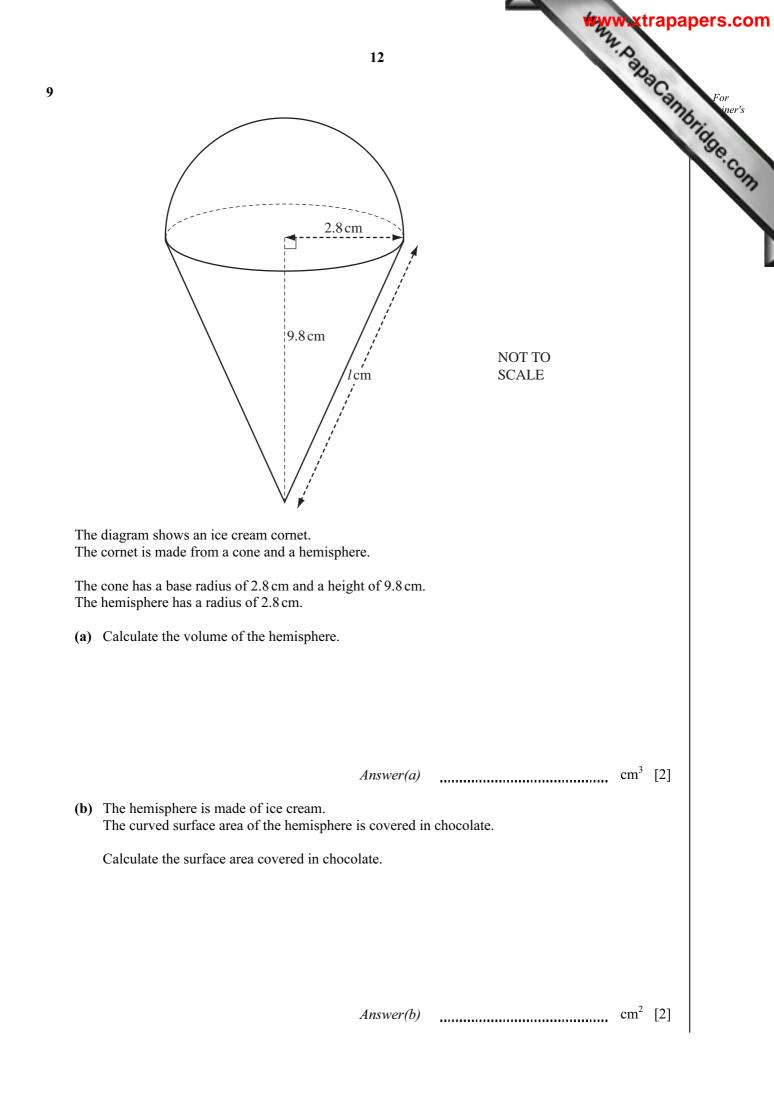
7 (e) Write down the gradient of a line parallel to <i>PR</i> . <i>Answer(e)</i> (f) Find the equation of the straight line through the point (5, 3) which is parallel to <i>PR</i> .	PapaCannu	For iner's
Answer(f)	[2]	

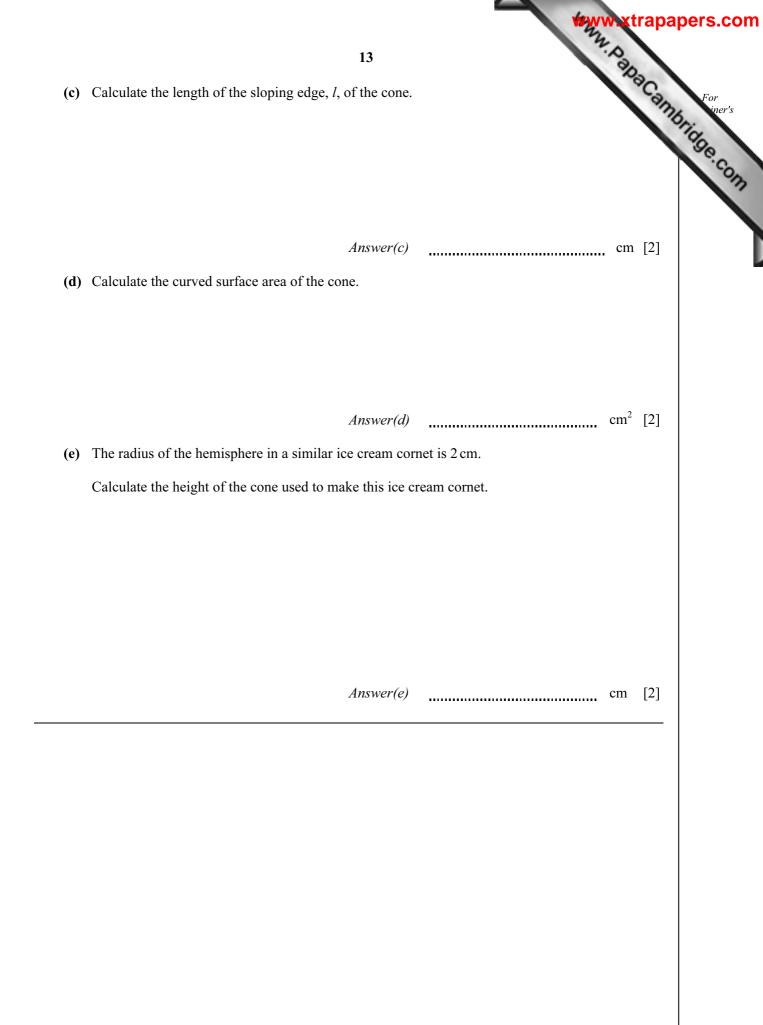


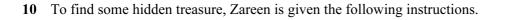












From P, walk 200 metres on a bearing of 030°. Then walk 80 metres on a bearing of 120°. Here lies the treasure.

(a) Show this information on a sketch of Zareen's route to the treasure.



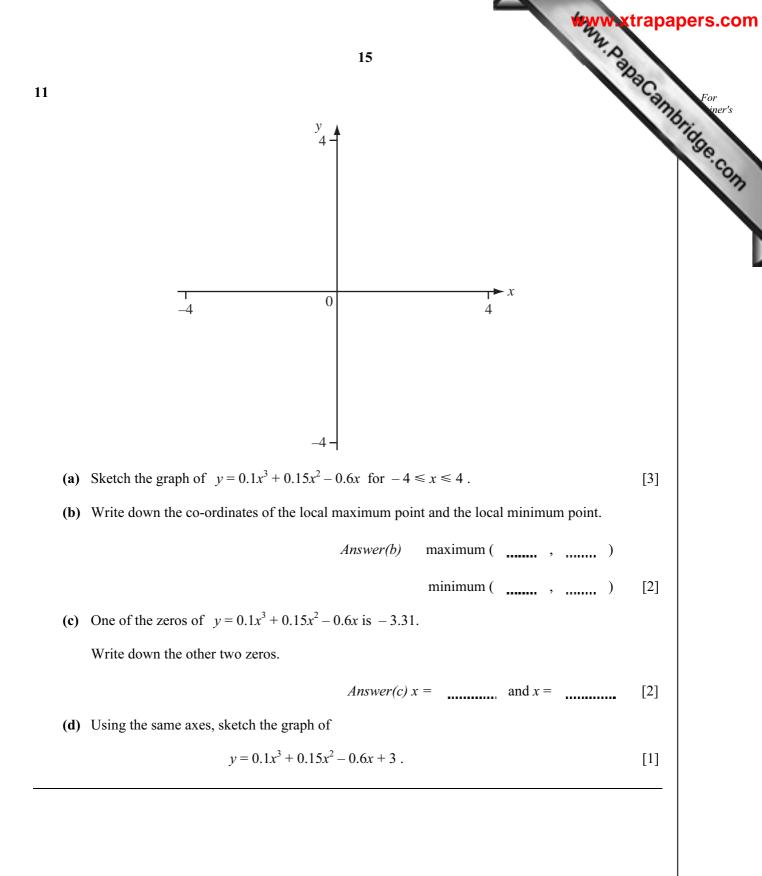
[2]

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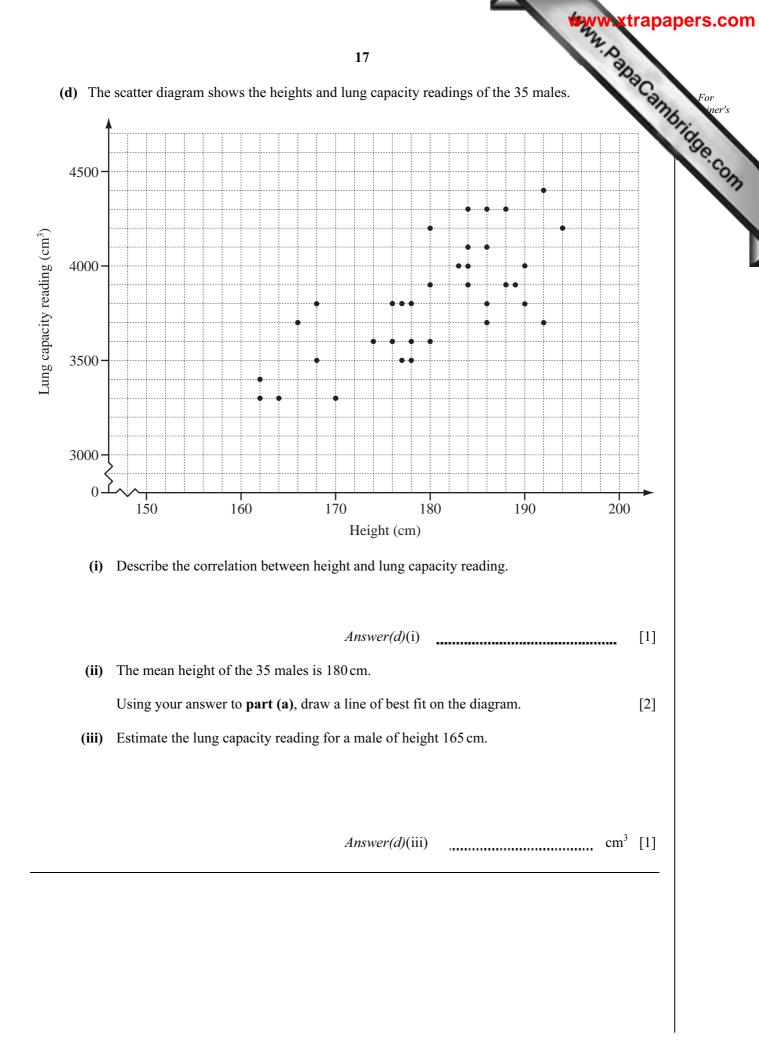
(b) Use trigonometry to calculate the bearing of the treasure from P.

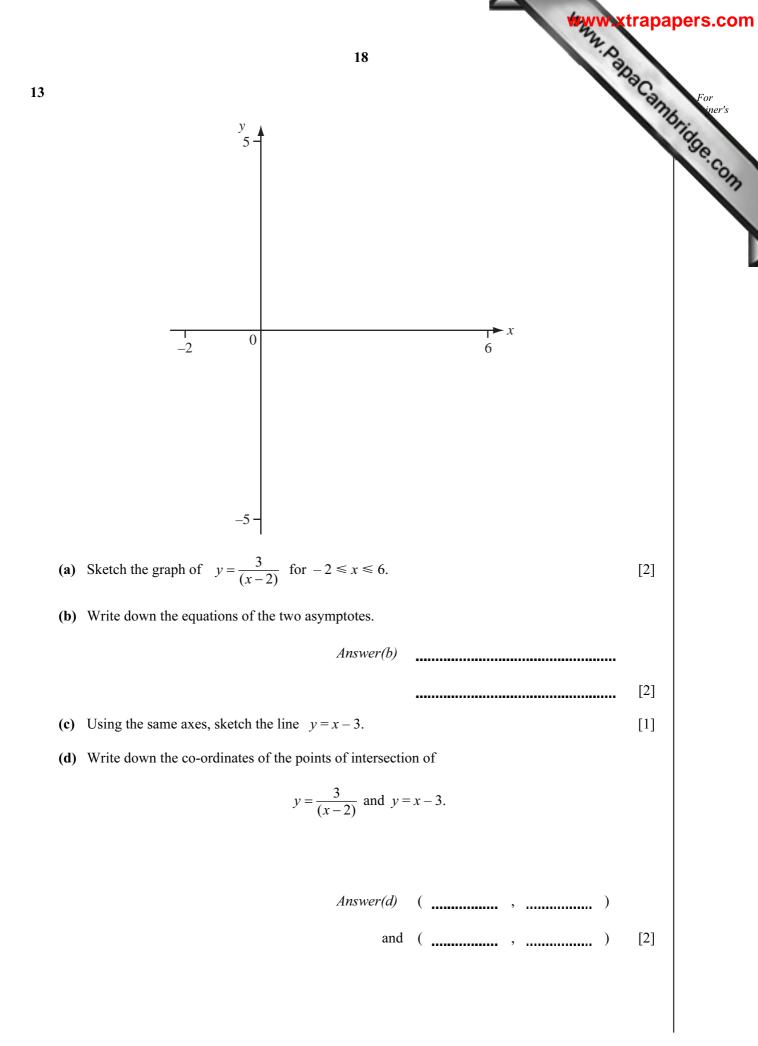
Answer(b) [4]

14



		16	1 AV	² ² ²
The lung capacity of 35 The machine's readings	males was measured us are shown in the table.	sing a machine	2.	www.trapapers
	Lung capacity reading (cm ³)	Frequency	7	1392
	3300	3		
	3400	1		
	3500	3		
	3600	4		
	3700	3		
	3800	6		
	3900	4		
	4000	3		
	4100	2		
	4200	2		
	4300	3		
	4400	1		
(b) Find the median lu	ng capacity.	Answer(a)		cm ³ [1]
(c) Write down the fra	ction of males with a rea			cm ³ [1]
Give your answer i				







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