

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.

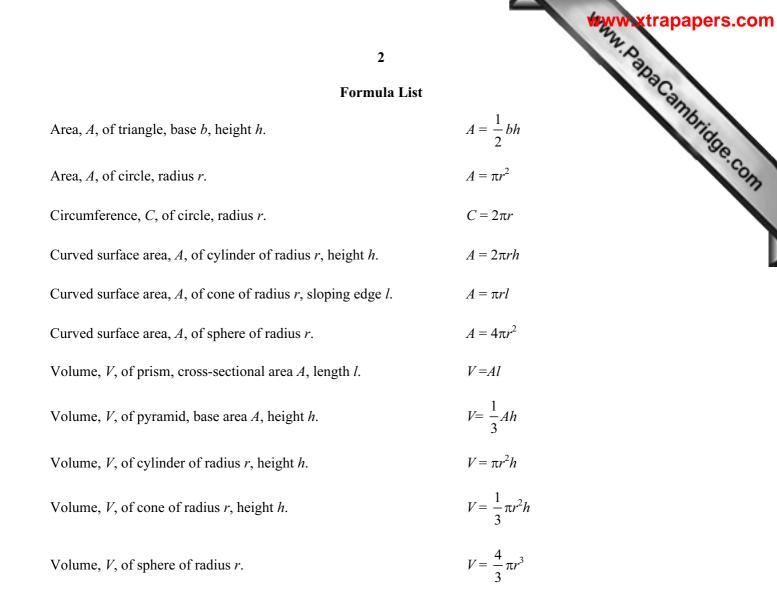
The total number of marks for this paper is 96.

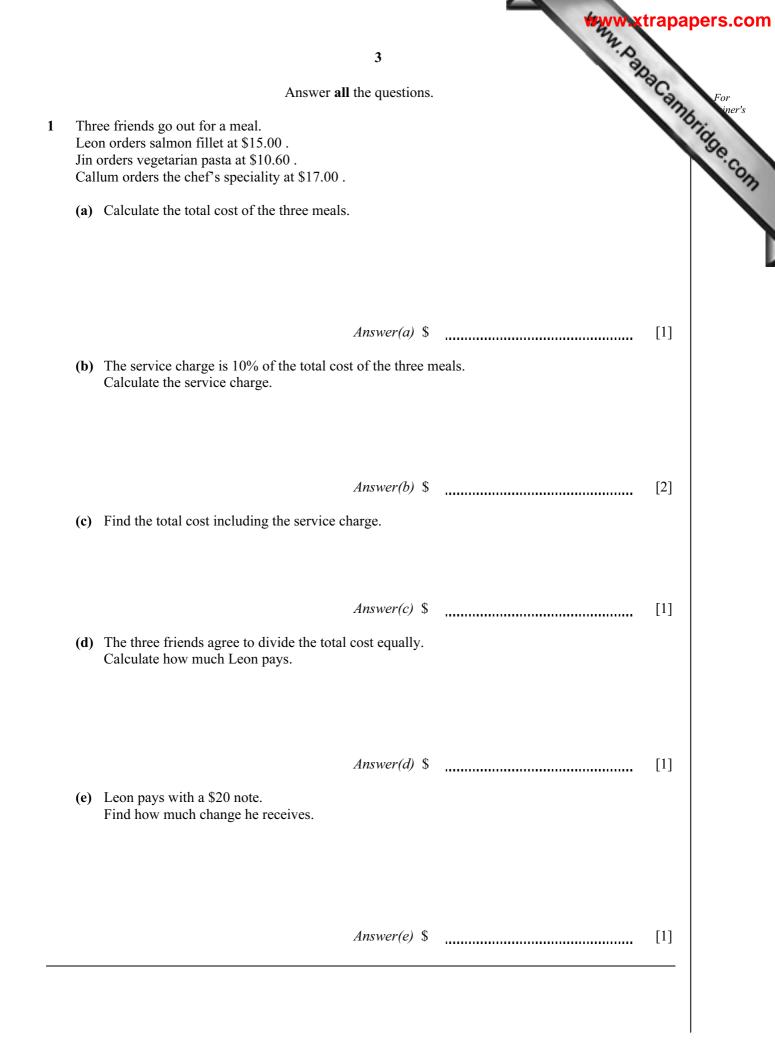
This document consists of **16** printed pages.

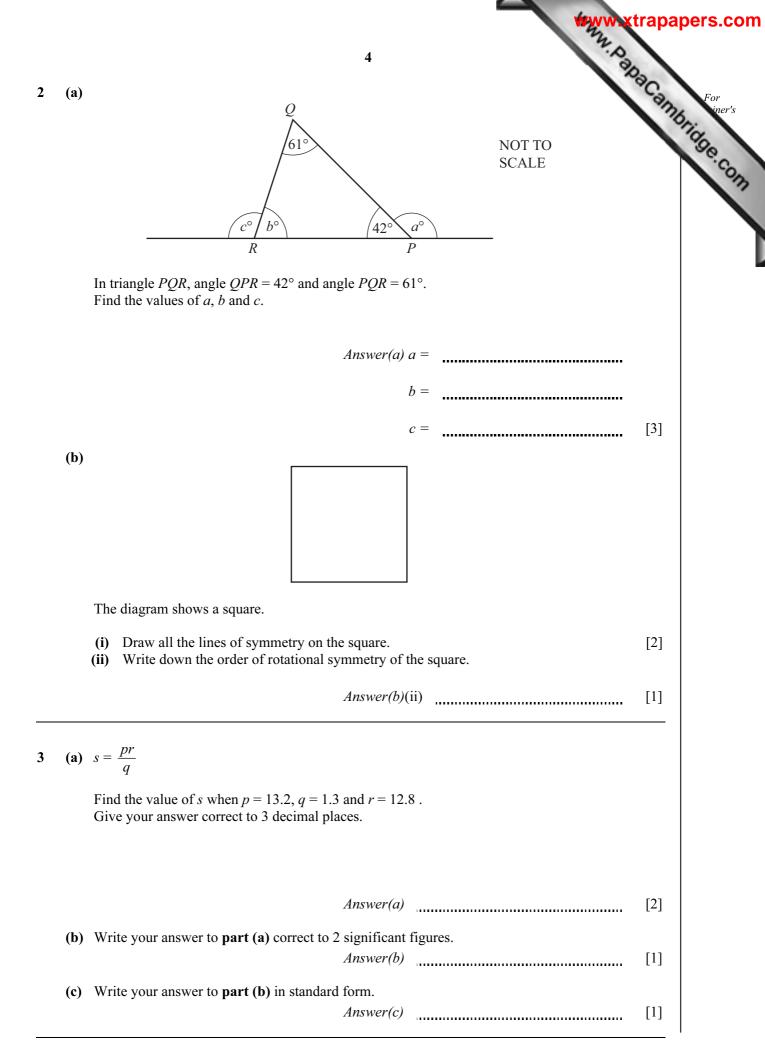


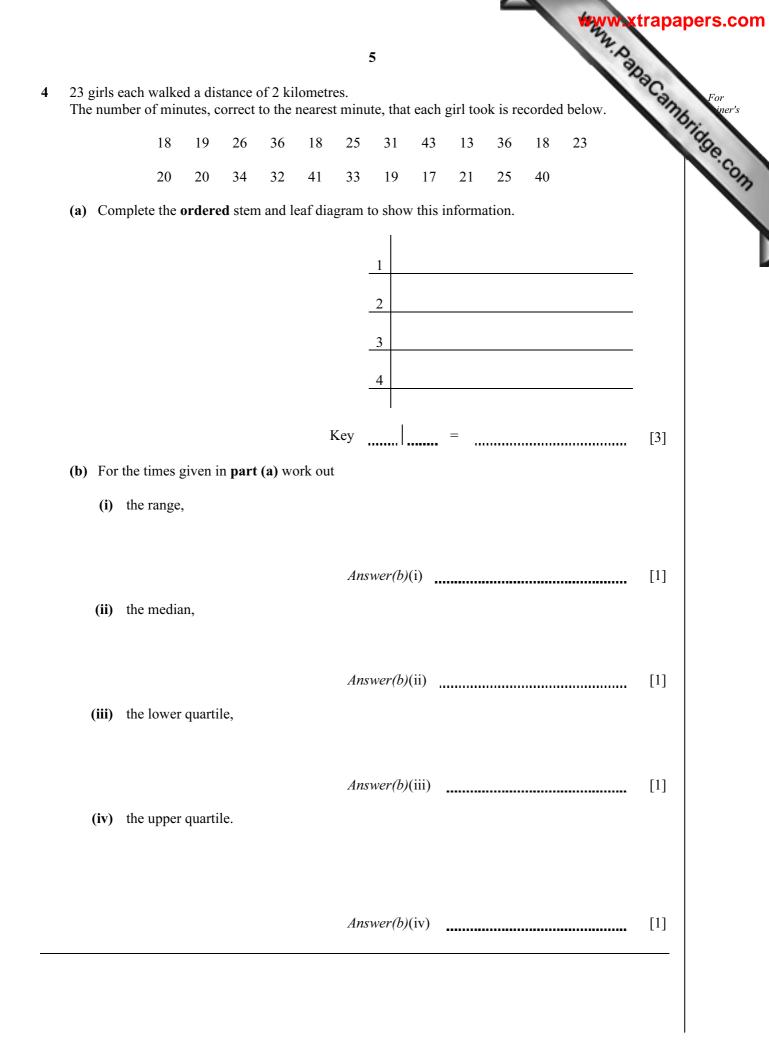
[Turn over











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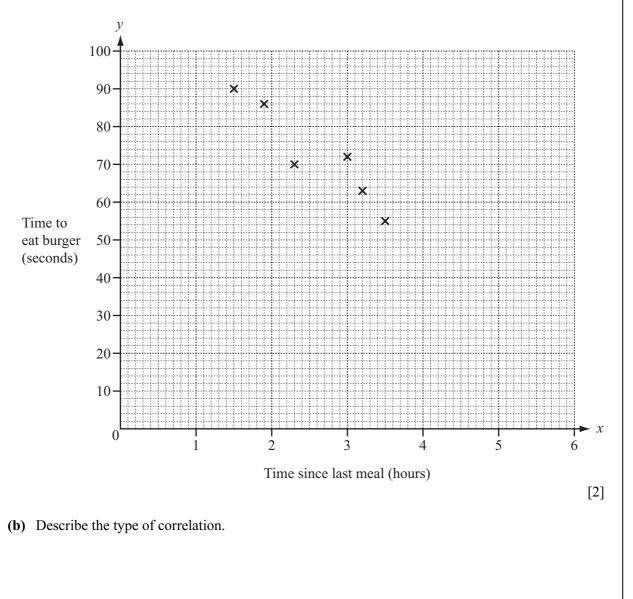
5 Ten children were each given a burger to eat.

The table shows the number of hours since their last meal and the time, in seconds, taken to eat burger.

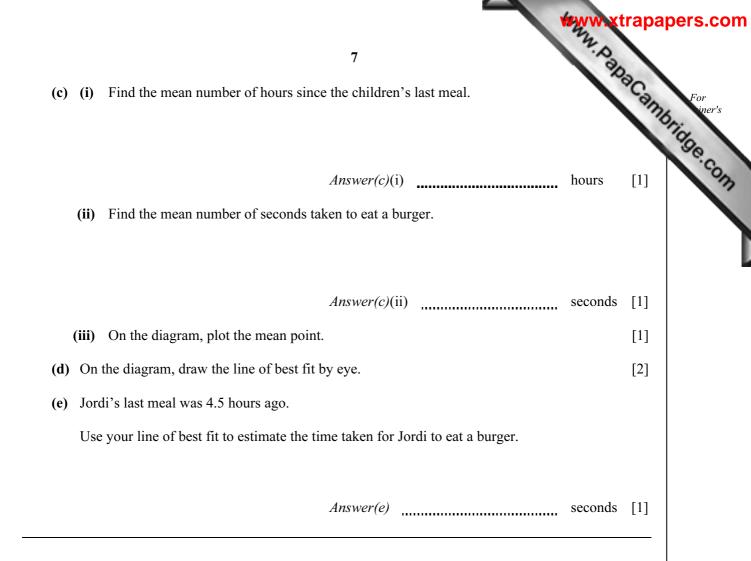
hildren were each given a burger to ble shows the number of hours si			6 st me	al and	l the t	ime, i	in seco	onds,		0	trapa bacanne	For iner	
Time since last meal, <i>x</i> hours	1.5	1.9	2.3	3.0	3.2	3.5	3.8	4.1	4.7	5.2		.6	on
Time to eat burger, y seconds	90	86	70	72	63	55	60	45	38	25			

(a) Complete the scatter diagram.

The first six points have been plotted for you.

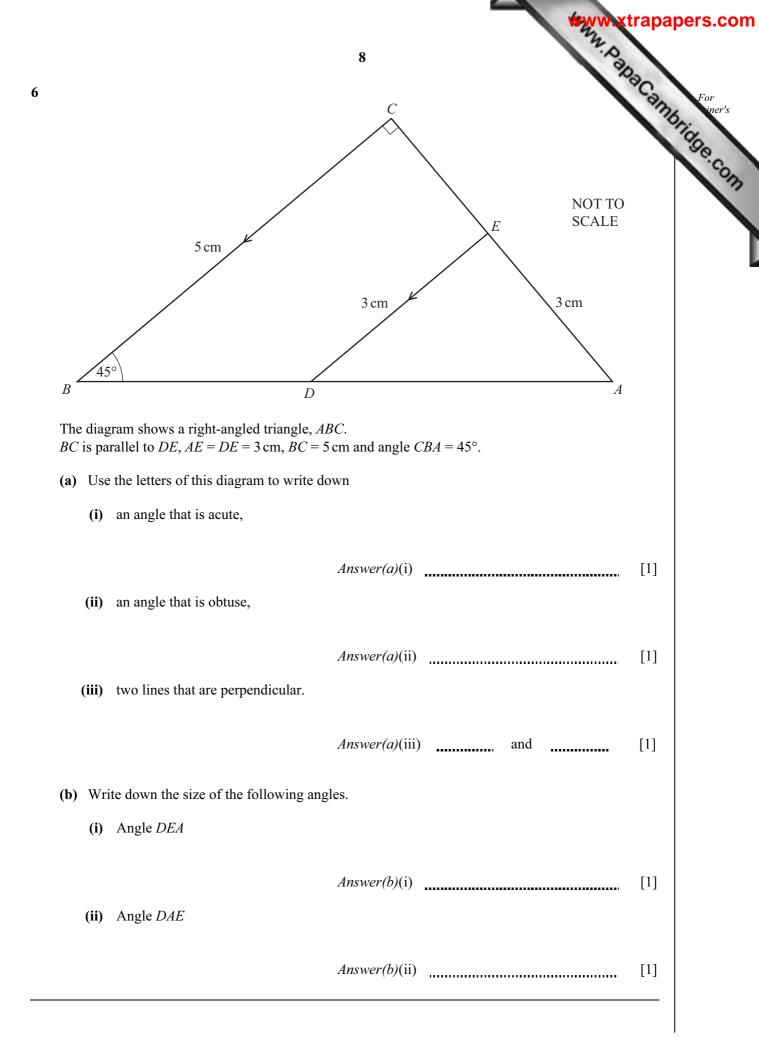


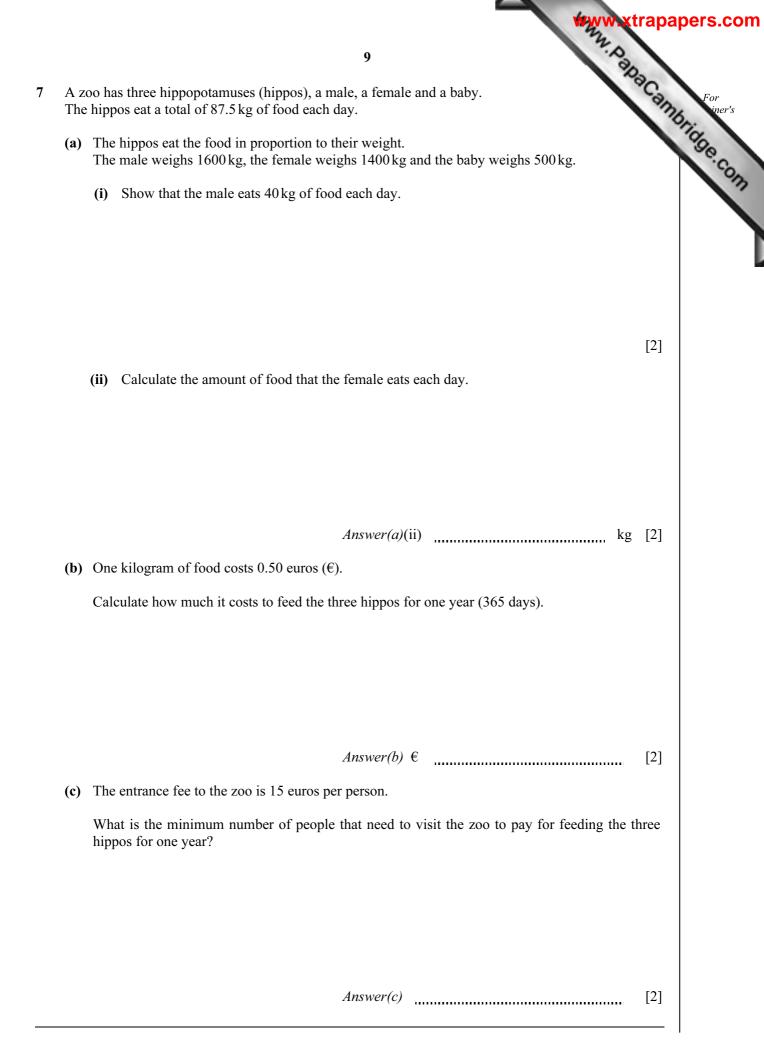
,.... Answer(b) [1]

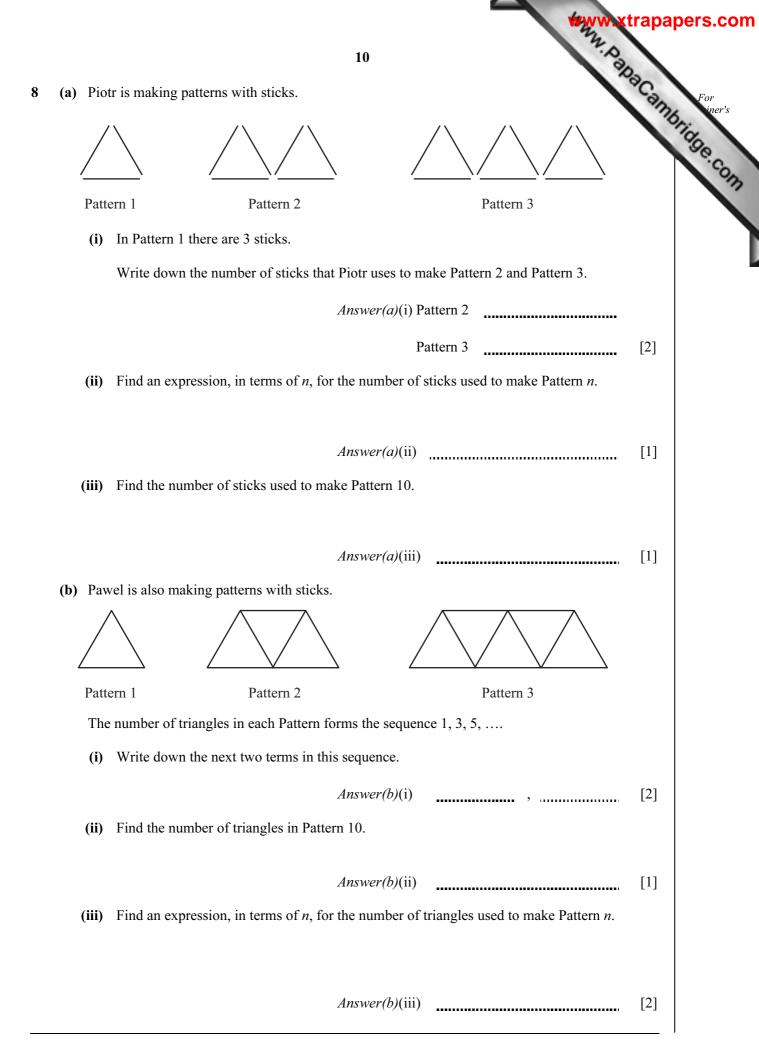


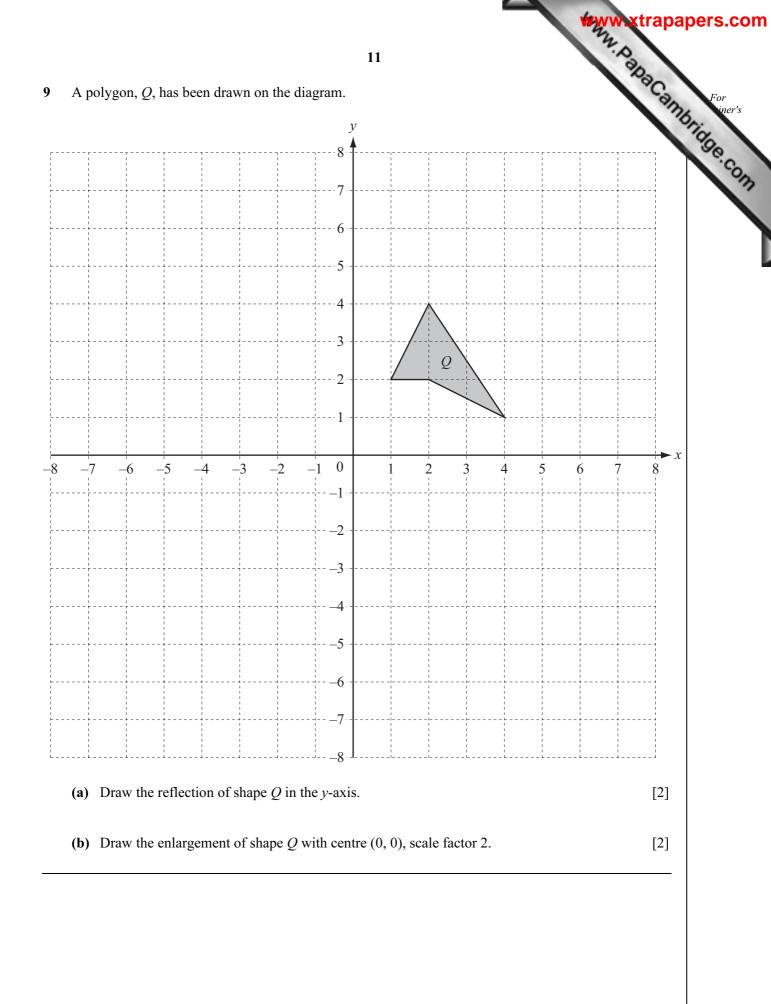
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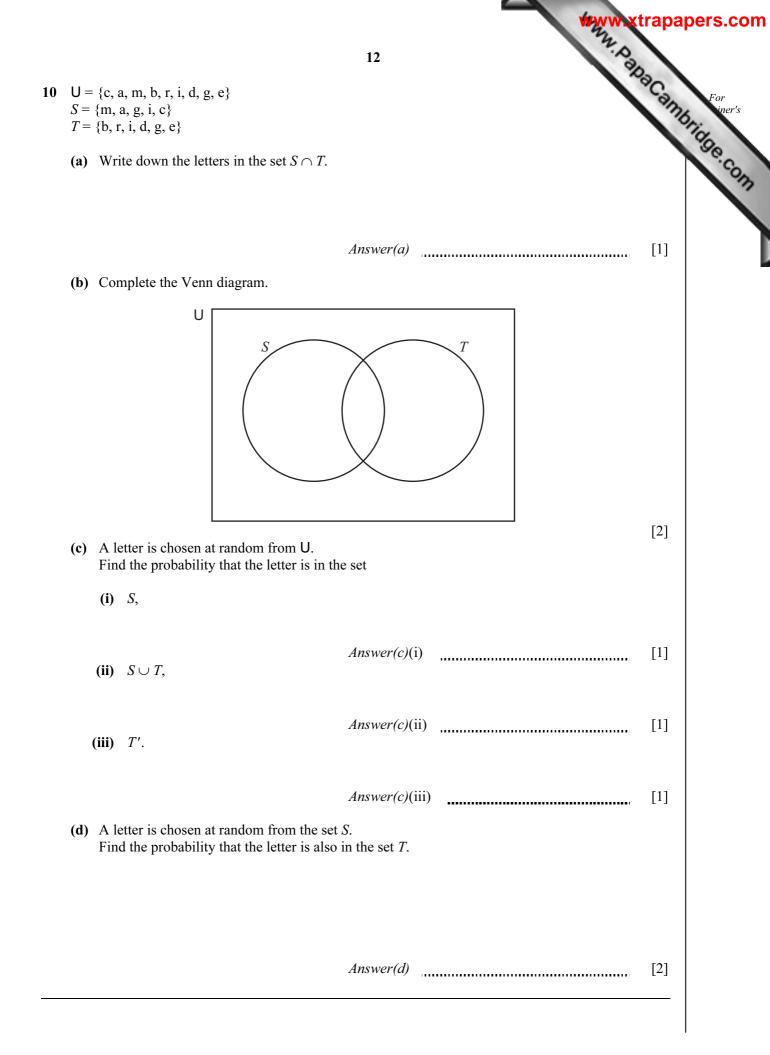
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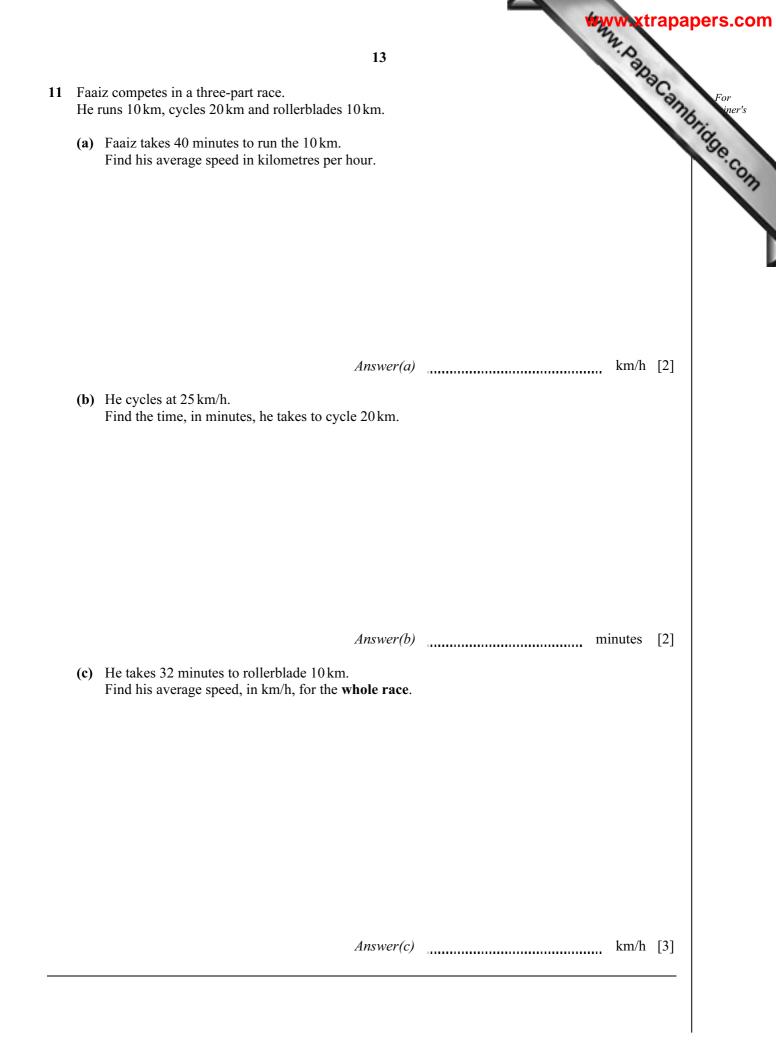


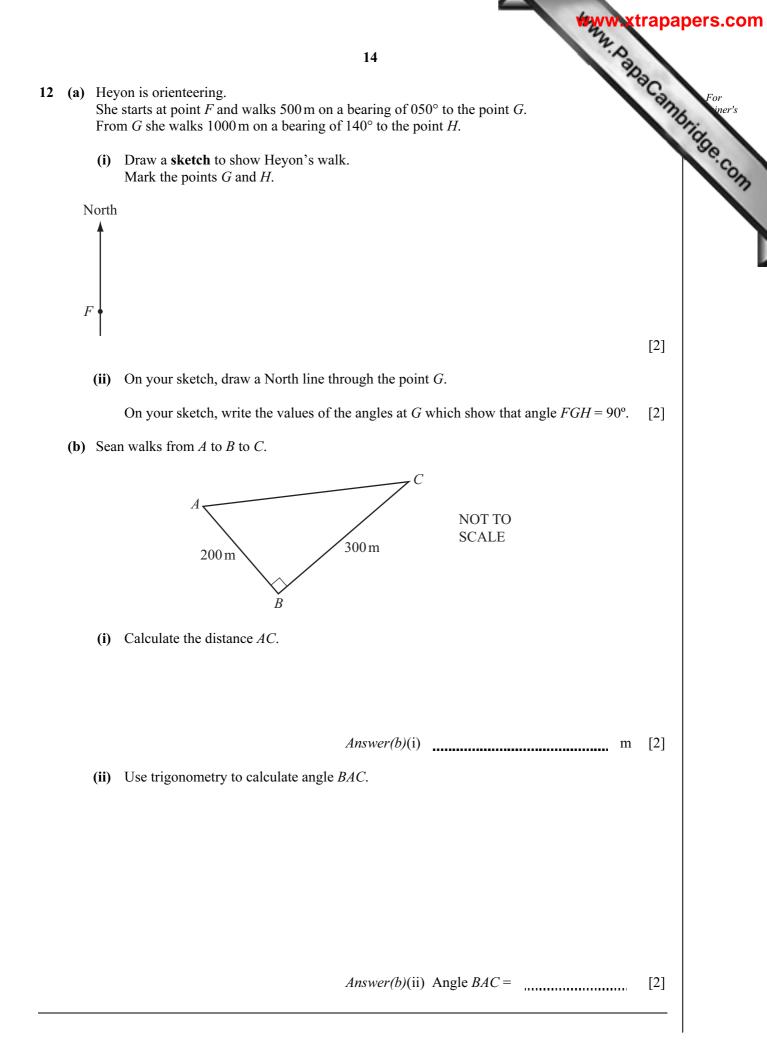


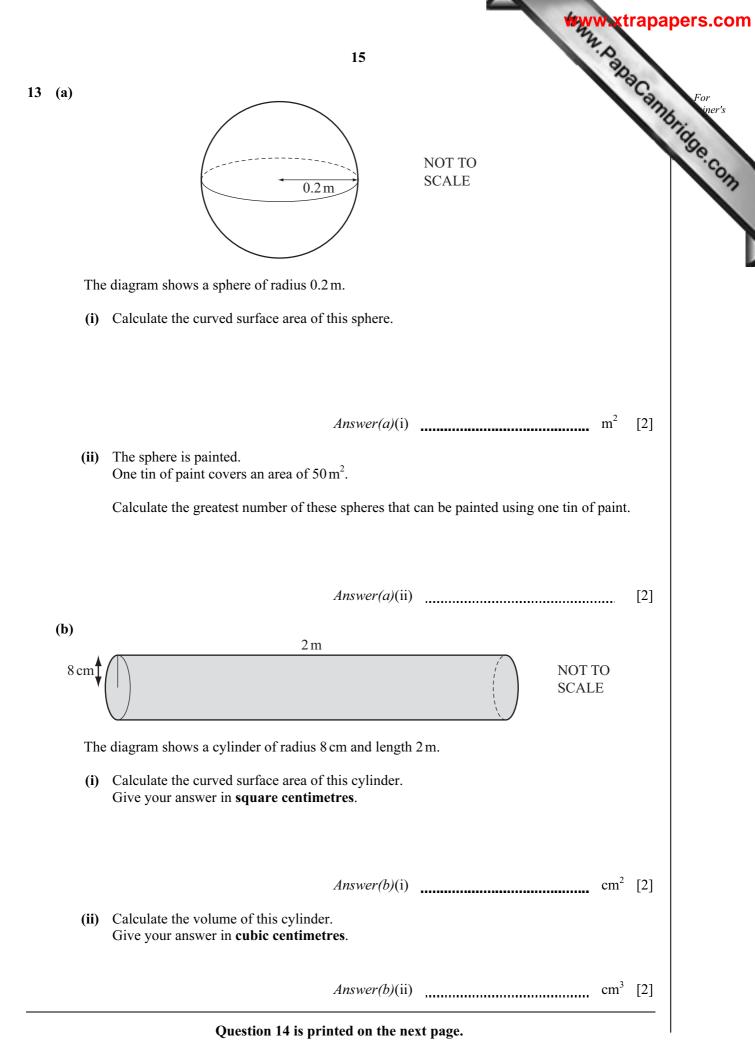


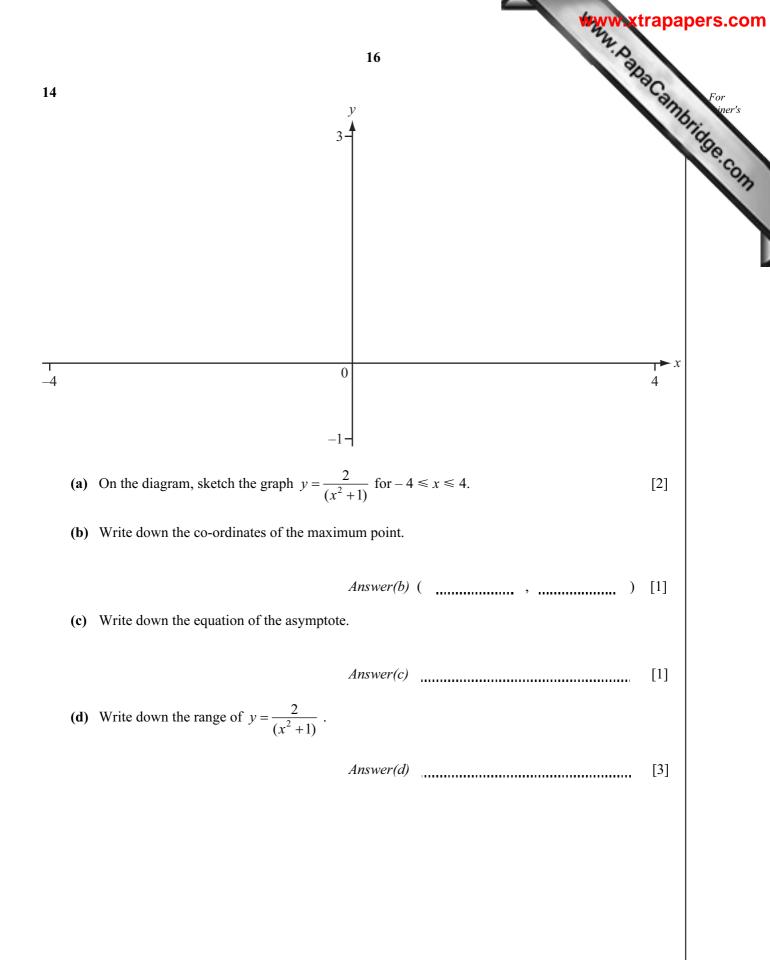












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