

millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions in the spaces provided in this question paper.

You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

There are 20 questions in this paper. The total mark for this paper is 100. The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). Calculators may be used. If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Advice to Candidates

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

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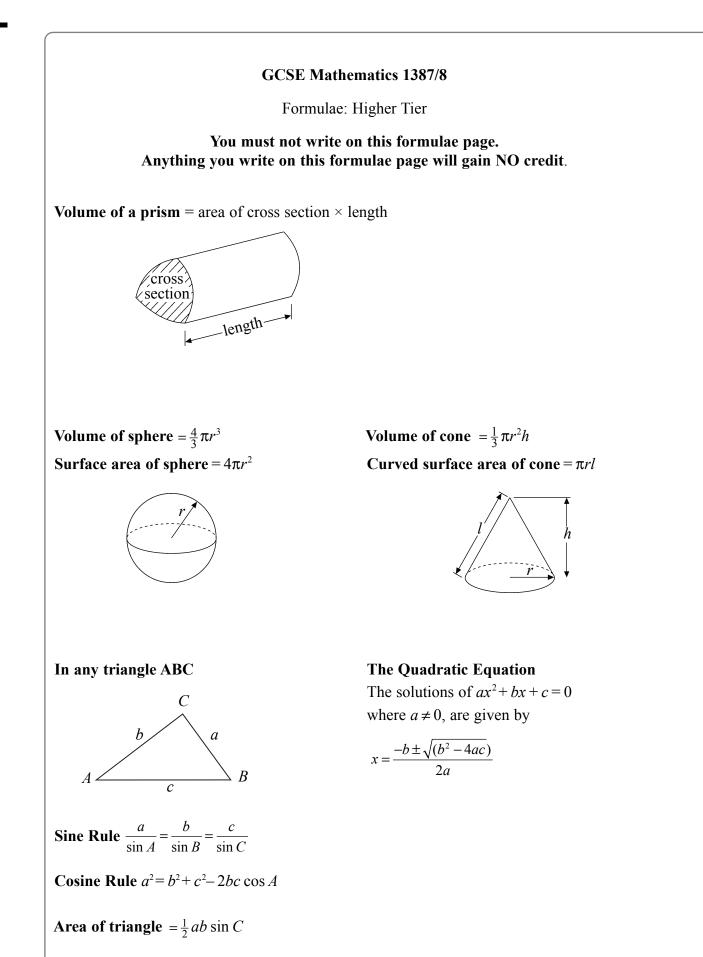
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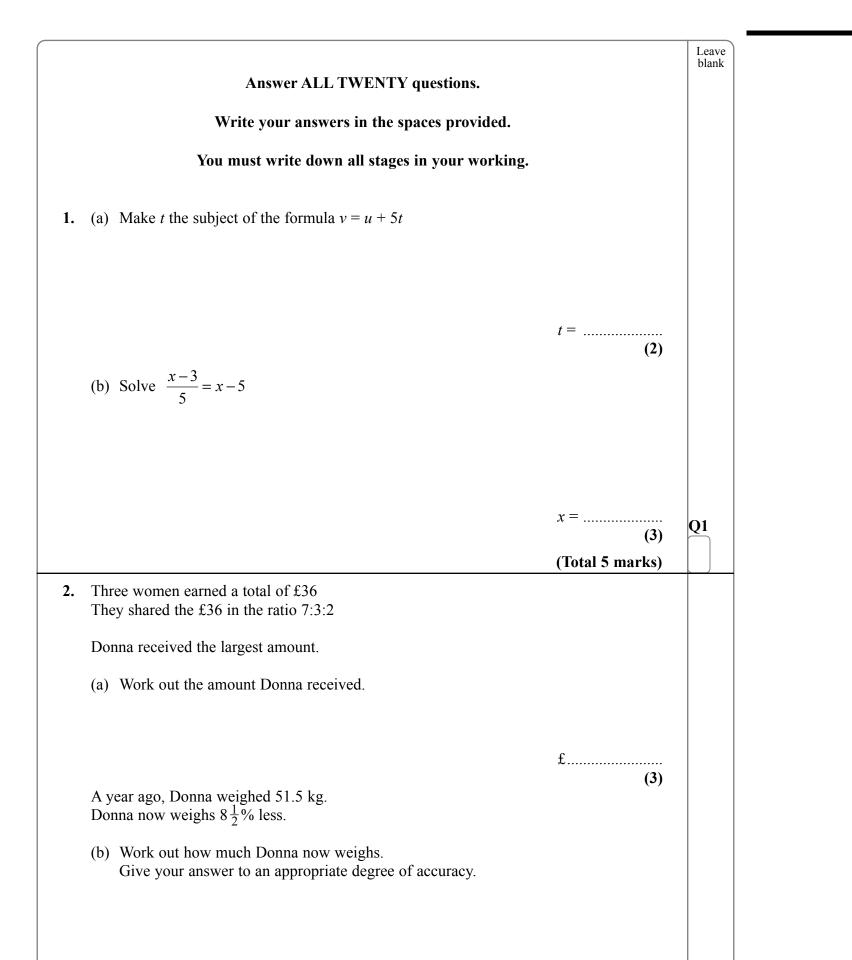


Turn over





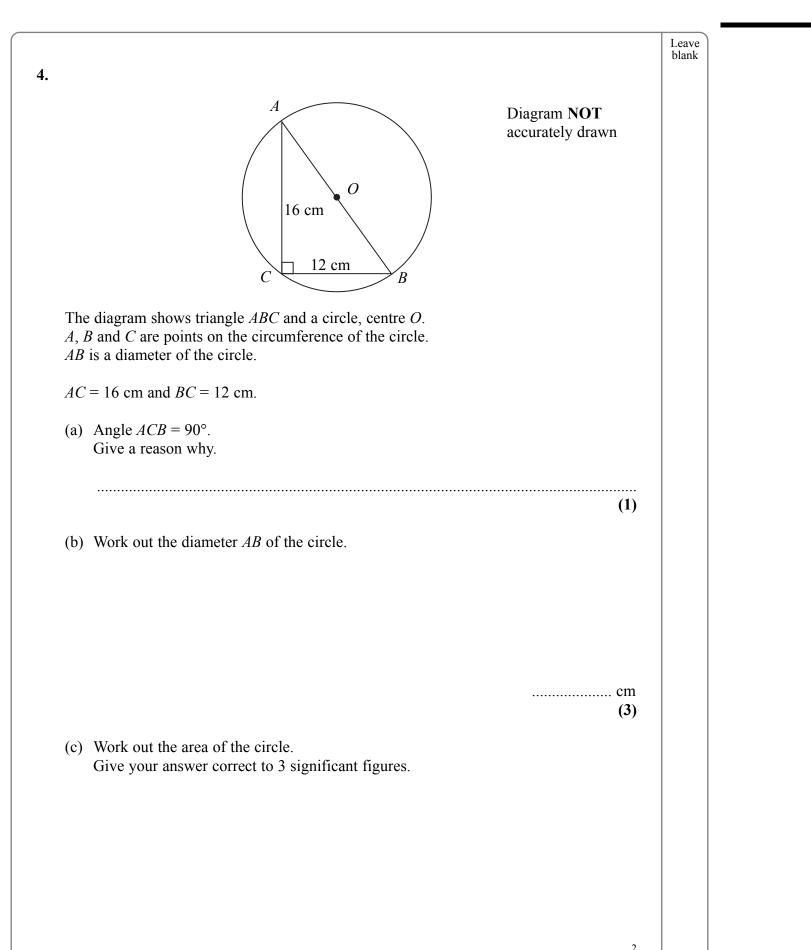






3.	The equation	Leave blank
	$x^3 - 4x = 24$	
	has a solution between 3 and 4. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.	
	<i>x</i> =	Q3
	(Total 4 marks)	





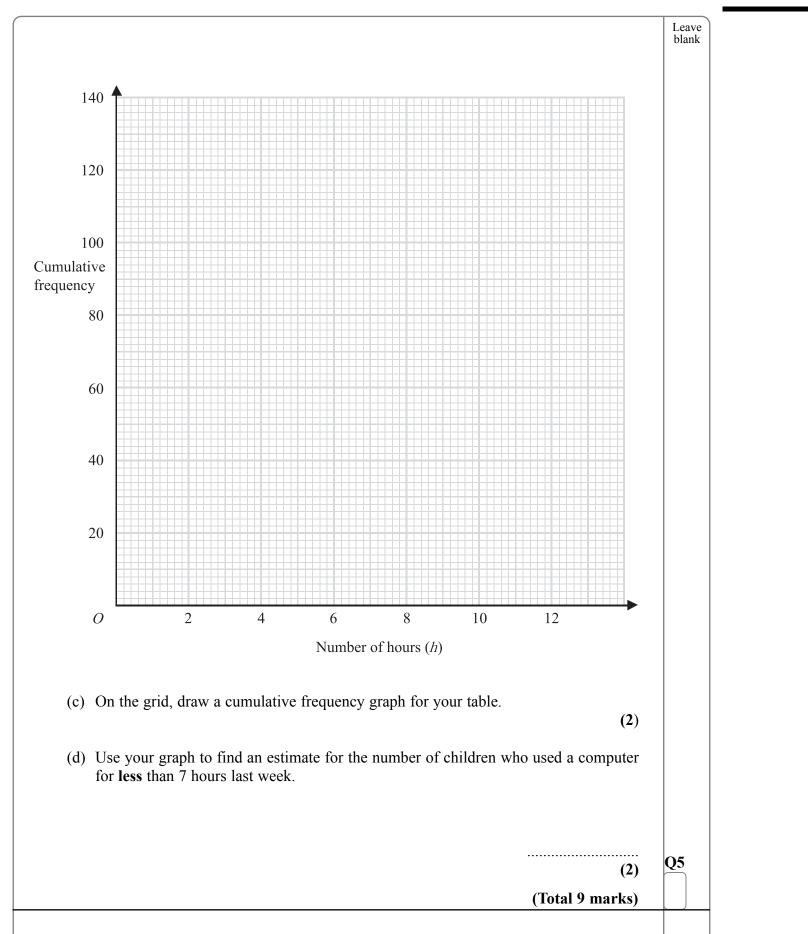


Number of hours (<i>h</i>)	Frequency
$0 < h \leqslant 2$	10
$2 < h \leqslant 4$	15
$4 < h \leqslant 6$	30
$6 < h \leqslant 8$	35
$8 < h \leq 10$	25
$10 < h \leq 12$	5
a) Work out an estima	te for the mean nun

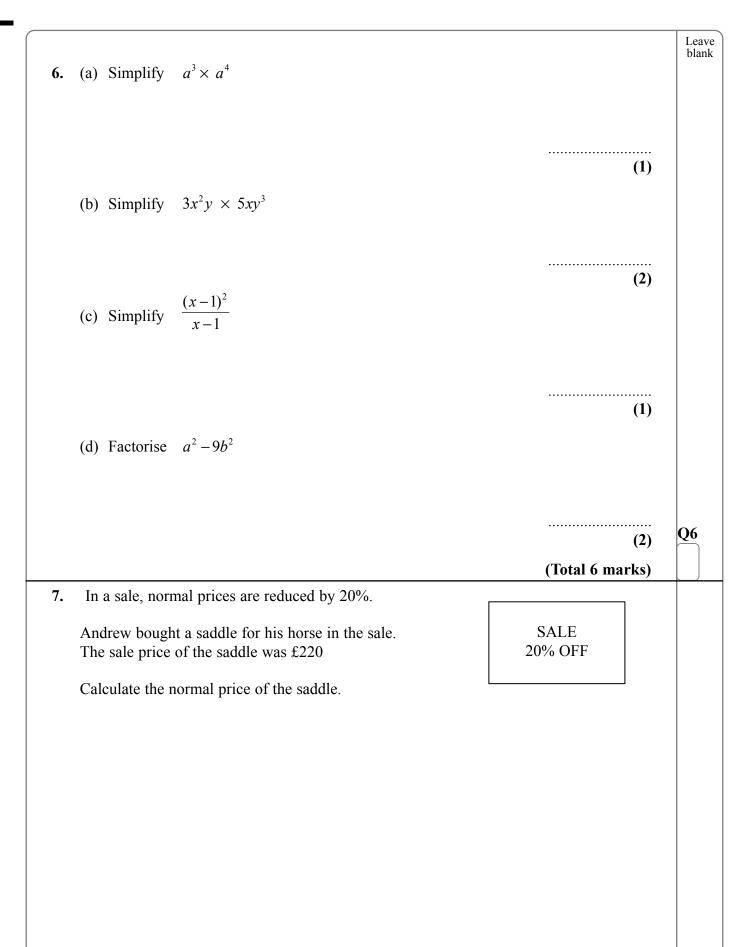
Leave blank

Number of hours (<i>h</i>)	Cumulative frequency
$0 < h \leqslant 2$	10
$0 < h \leqslant 4$	
$0 < h \leqslant 6$	
$0 < h \leqslant 8$	
$0 < h \leqslant 10$	



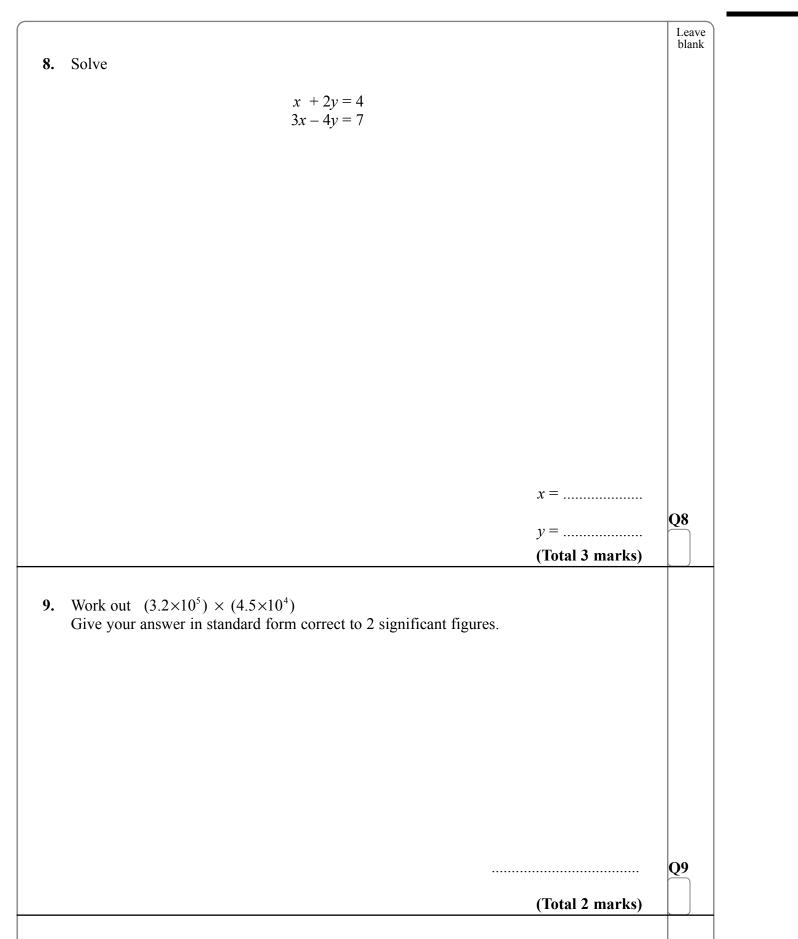






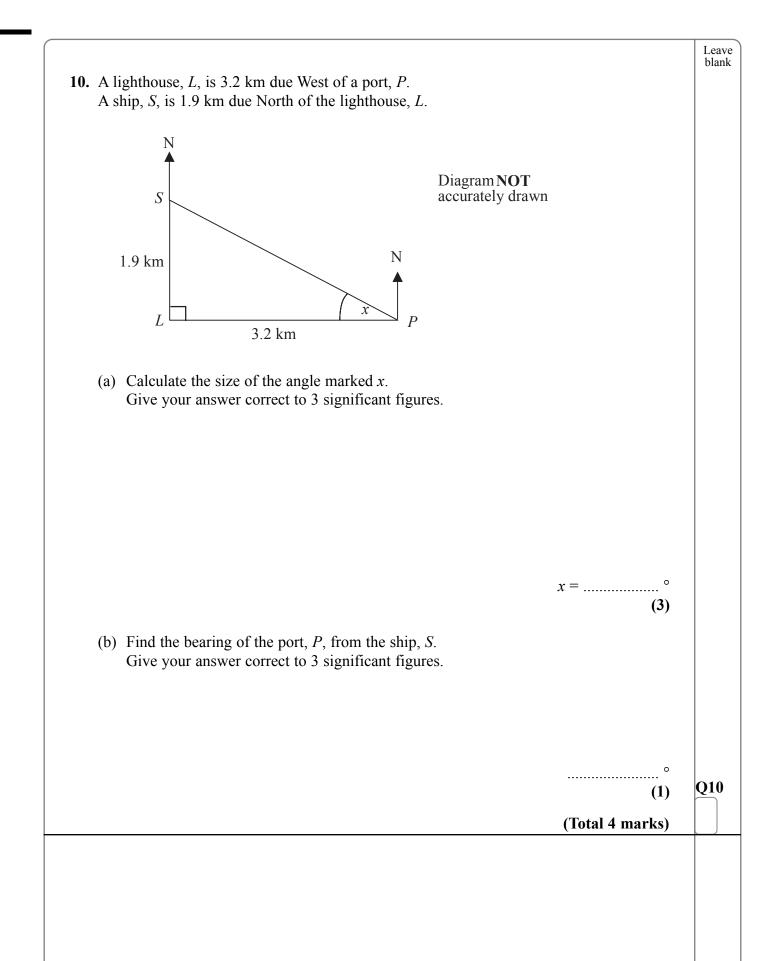




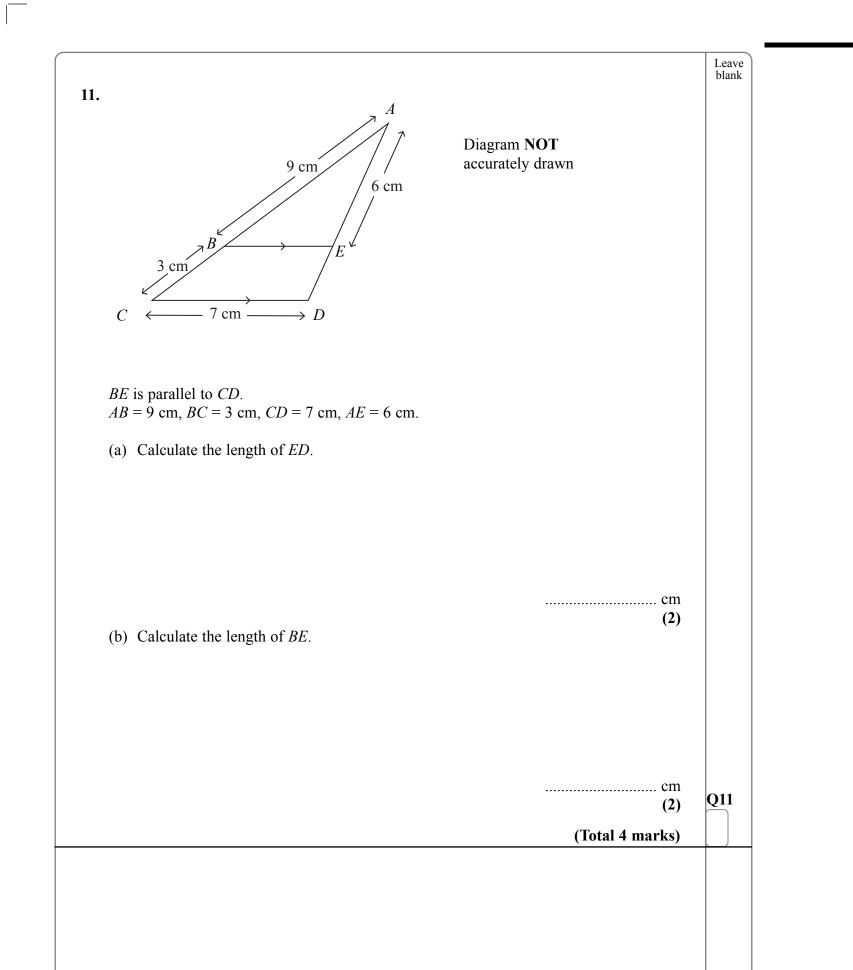


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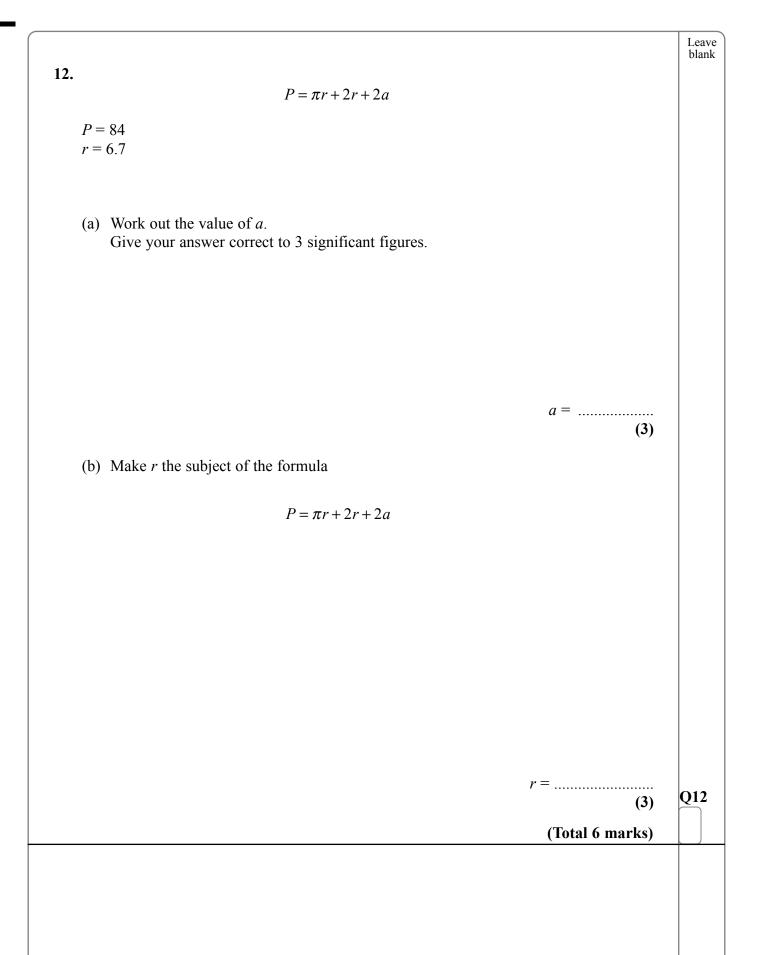




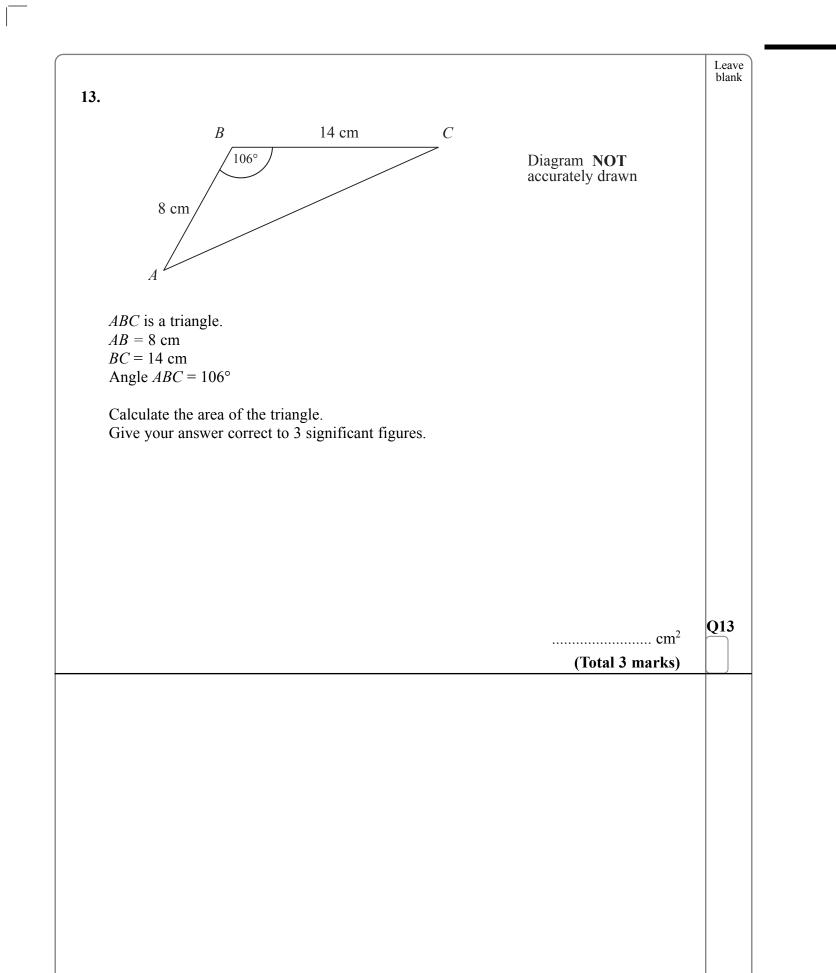




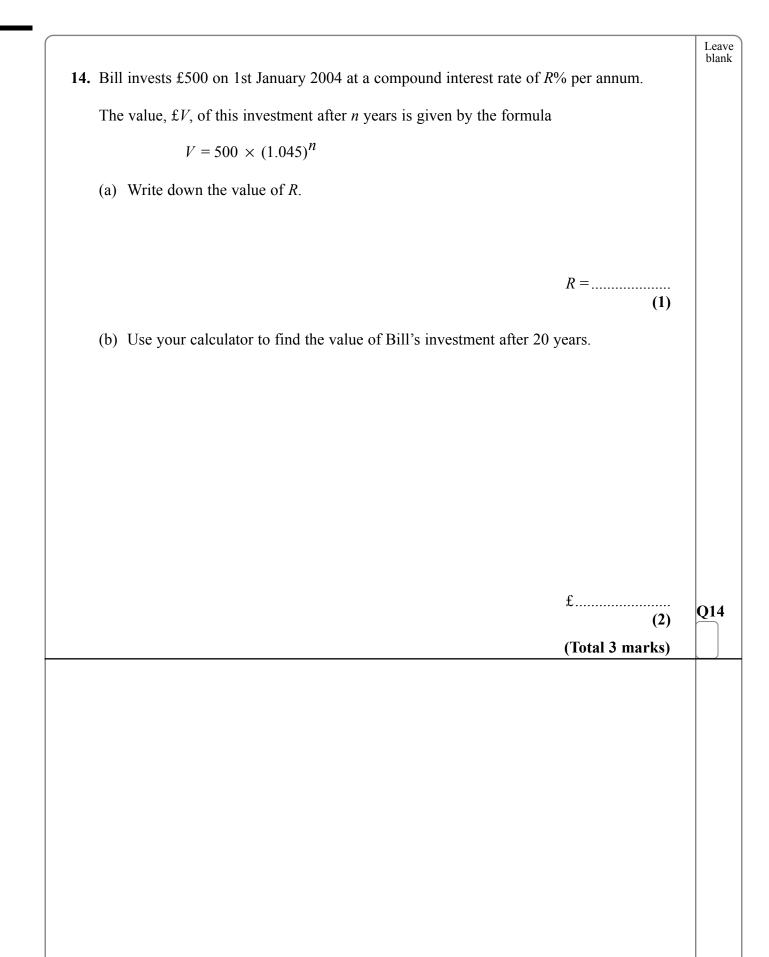




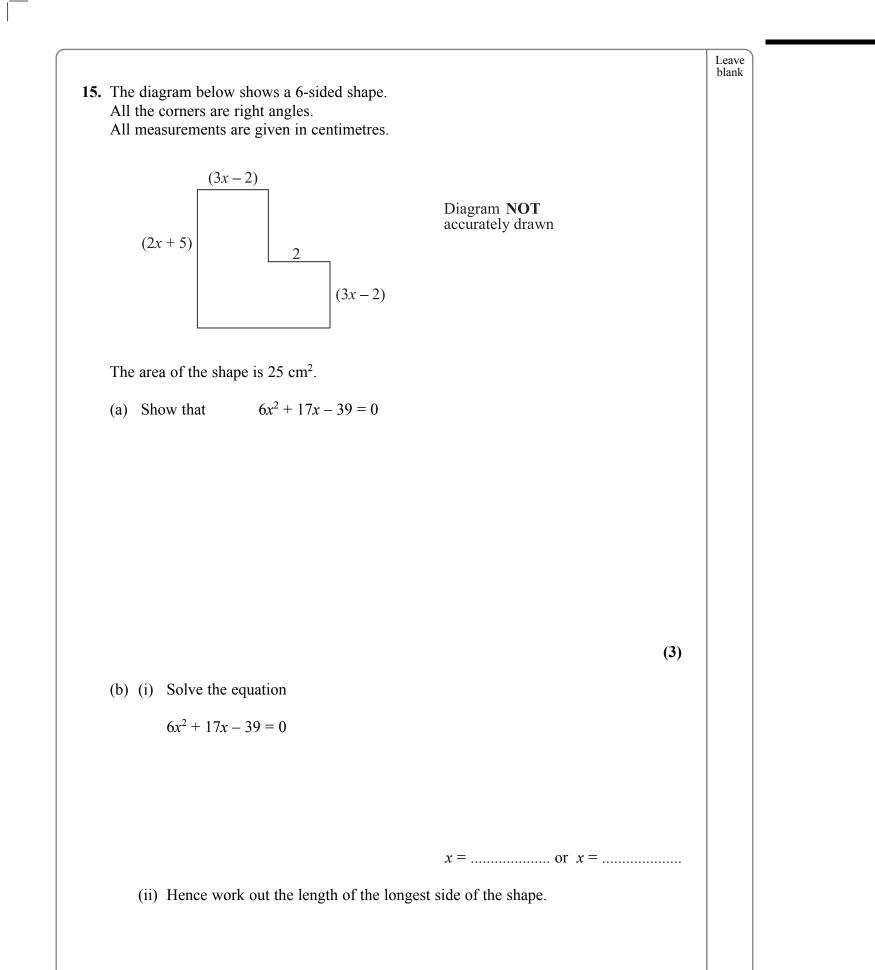




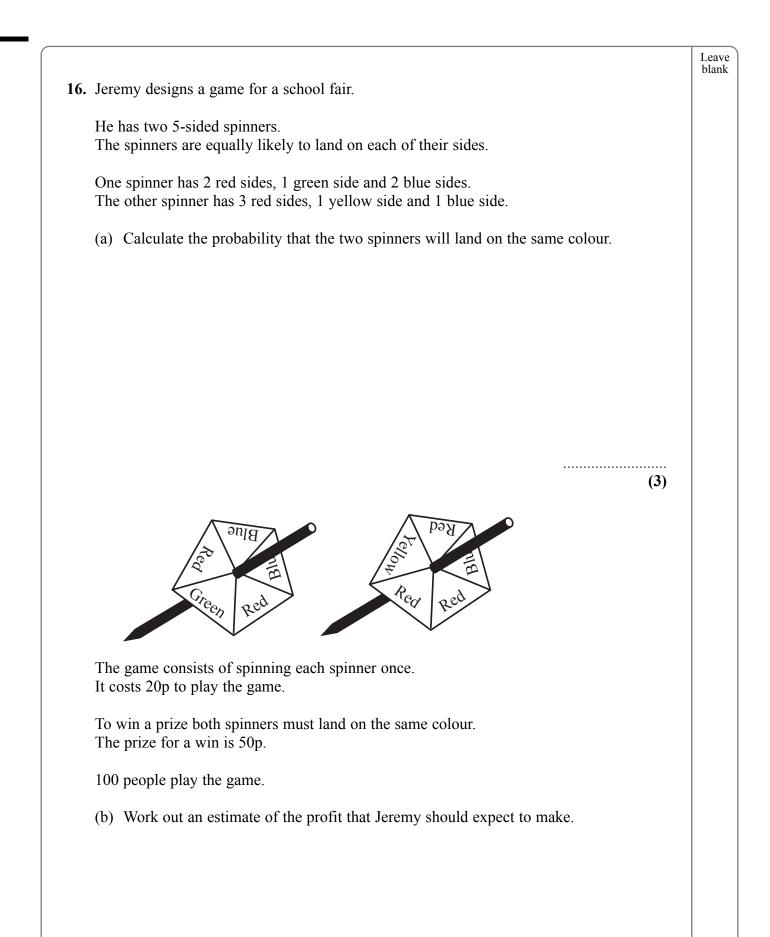














M 2

8 3 6 A 0 1 6

