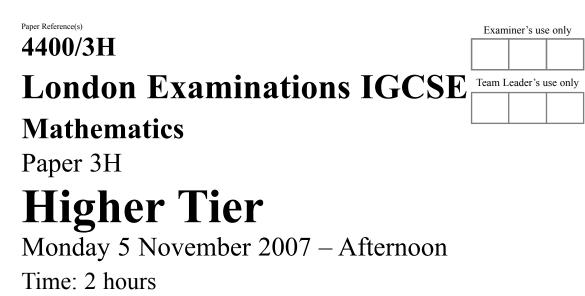
Centre No.				Surname	Initial(s)
Candida	ite No.			Signature	



Materials required for examination Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Items included with question papers Nil

## **Instructions to Candidates**

In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature.

Check that you have the correct question paper.

Answer ALL the questions. Write your answers 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**

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 21 questions in this question paper. The total mark for this paper is 100. There are 20 pages in this question paper. Any blank pages are indicated. You may use a calculator.

## **Advice to Candidates**

Write your answers neatly and in good English.

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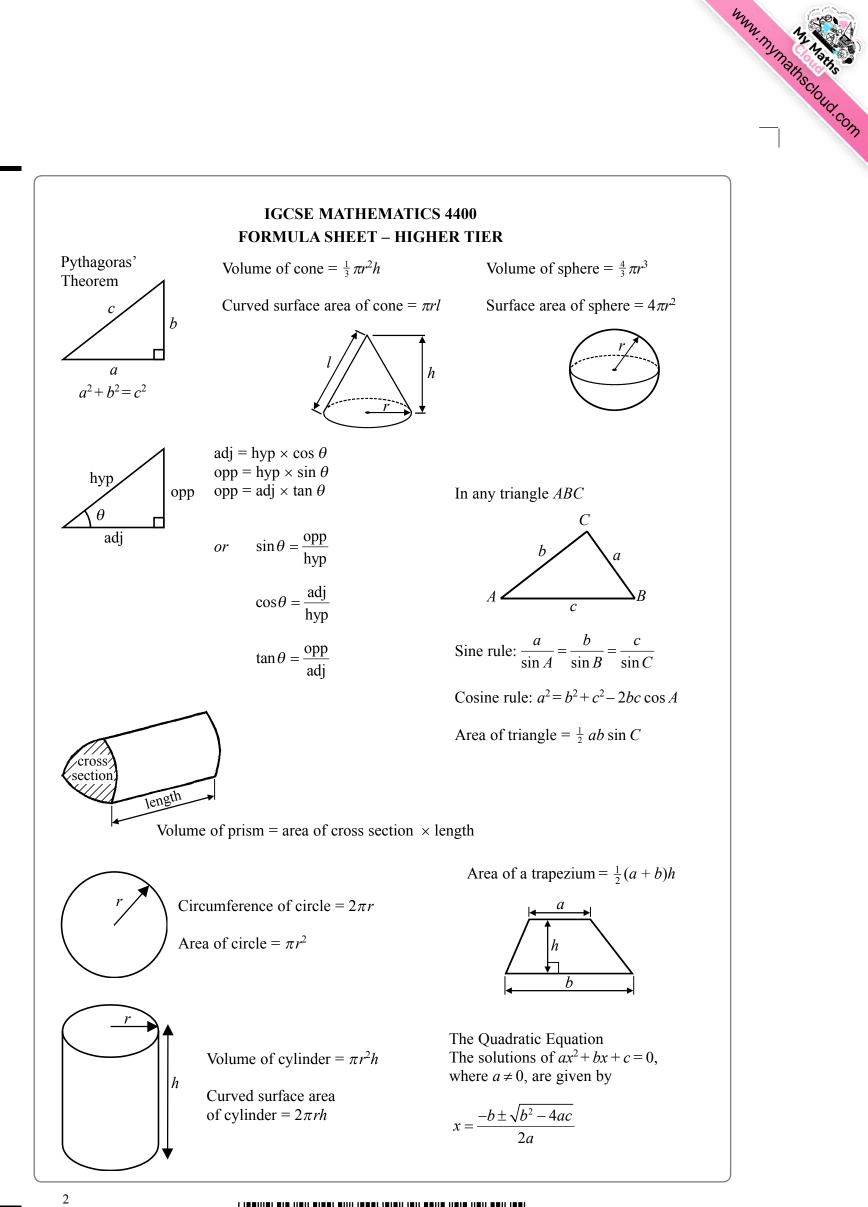


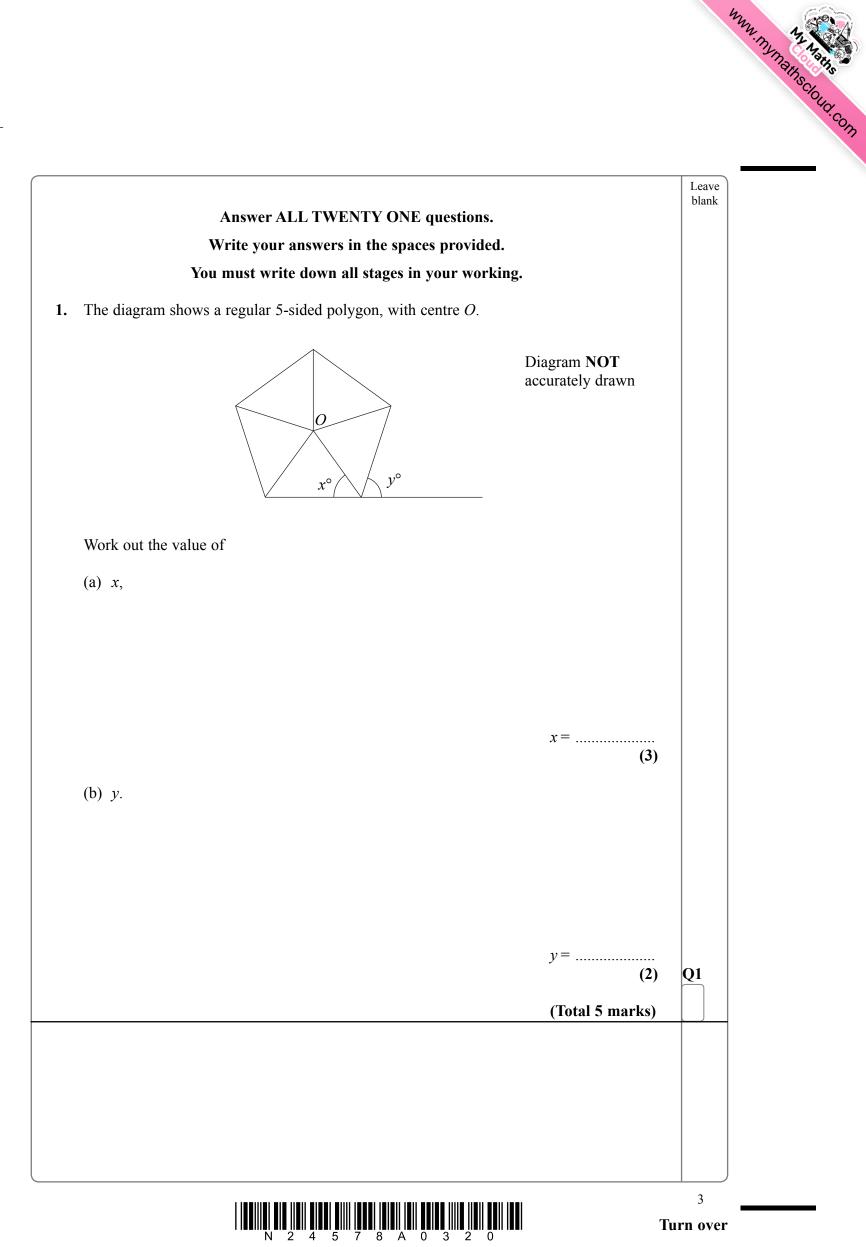




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				Leave blank
<b>2.</b> The table shows inf	formation about the se	cores in a game.		
	Score	Frequency		
	1	5		
	2	8		
	3	3		
		4		
Work out the mean	score.			
				02
			(Total <b>2</b> marks)	Q2
			(Total 3 marks)	Q2
				Q2

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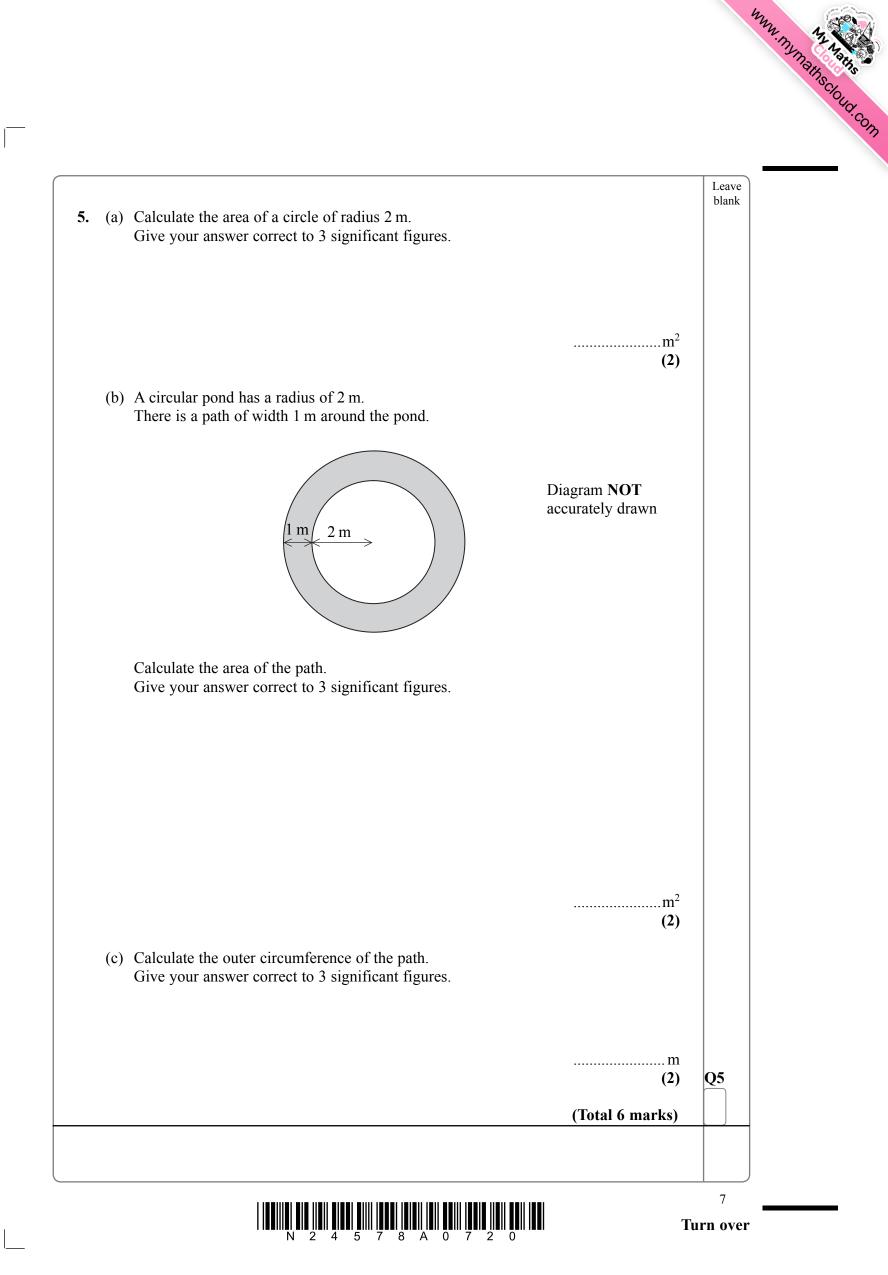
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<b>3.</b> A triangle has two equal sides of length $2x$ cm and one side of length $x$	c cm.	Leave blank
2x  cm $2x  cm$ D	iagram <b>NOT</b> ccurately drawn	
The perimeter of this triangle is 12 cm.		
(i) Use this information to write down an equation in $x$ .		
(ii) Solve your equation to find the value of $x$ .		
		Q3
	x = (Total 3 marks)	
		5

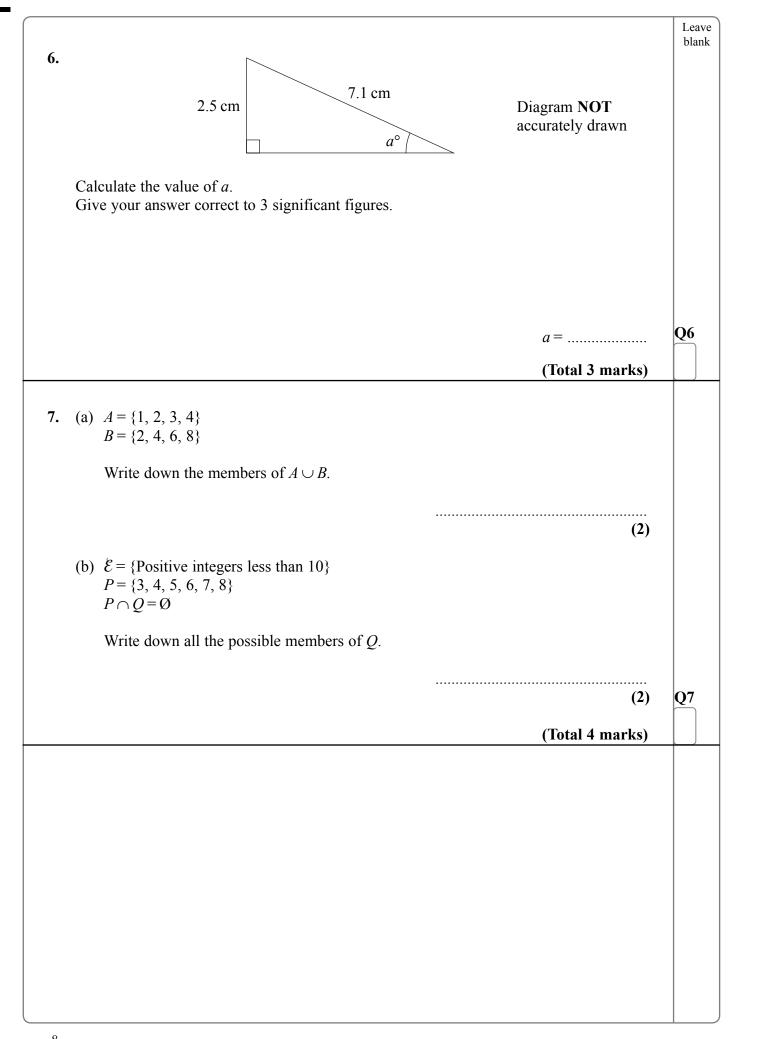
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% (Total 2 marks)	Q4

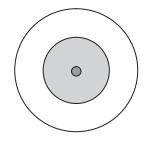
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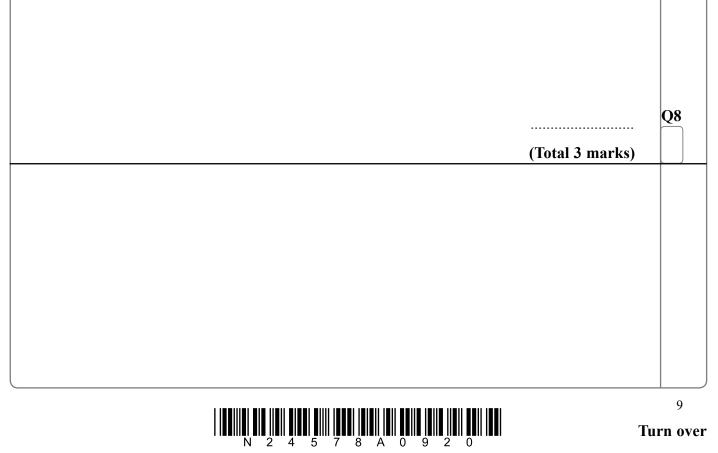
**8.** Jim fires an arrow at a target.



The table shows all the possible outcomes and the probabilities of three of these outcomes.

Result	Probability
Bull's Eye	
Inner Ring	0.3
Outer Ring	0.4
Miss	0.2

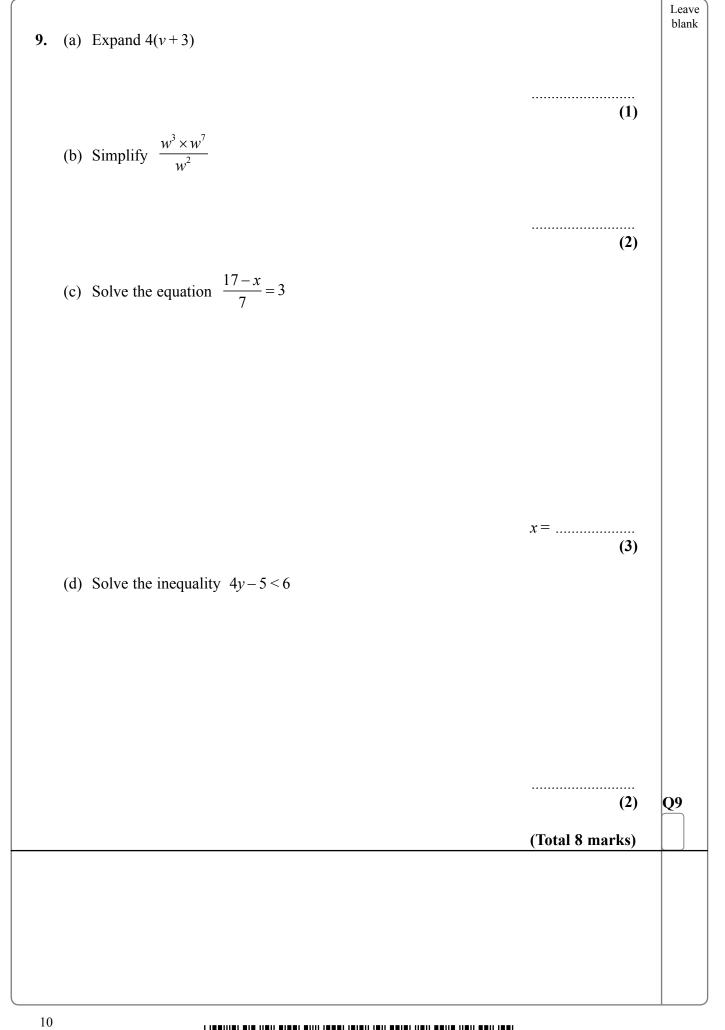
Work out the probability that Jim's arrow will hit either the Bull's Eye or the Inner Ring.



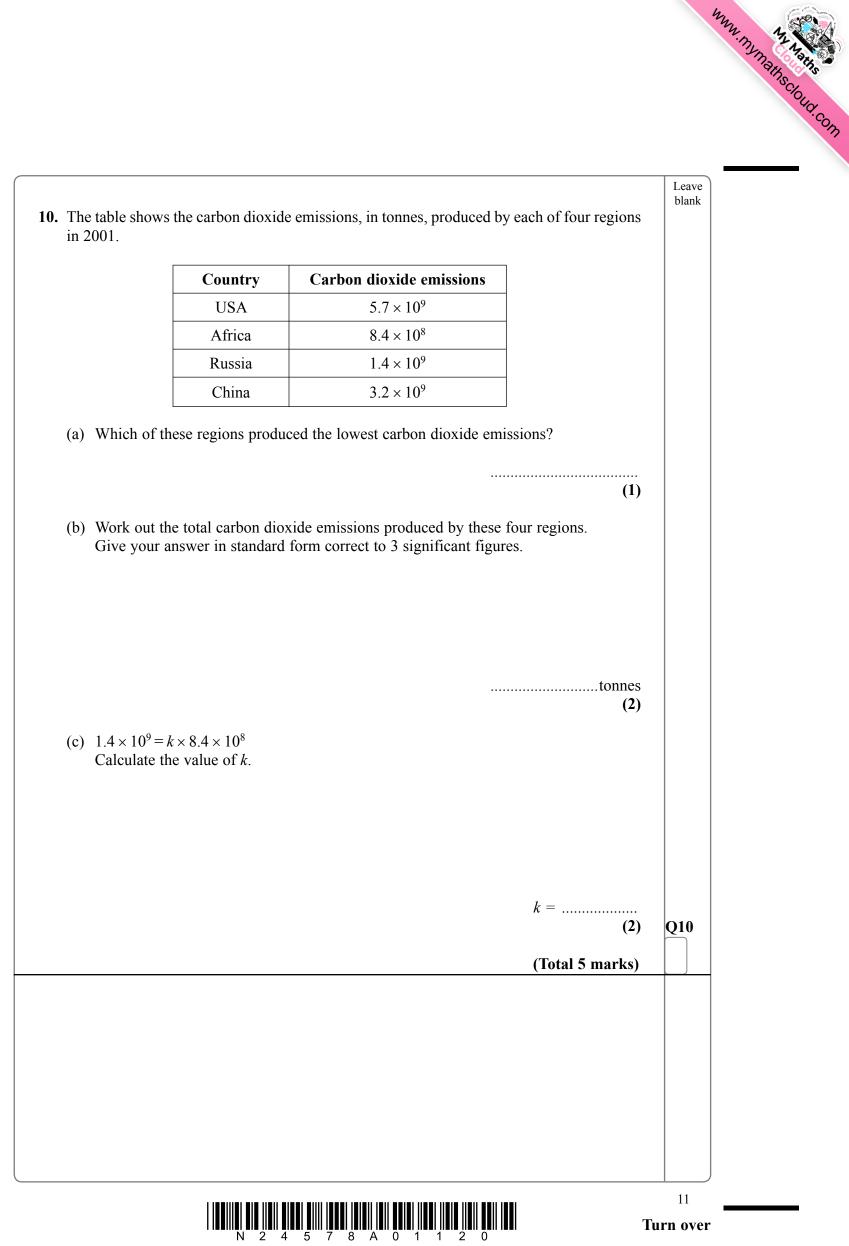
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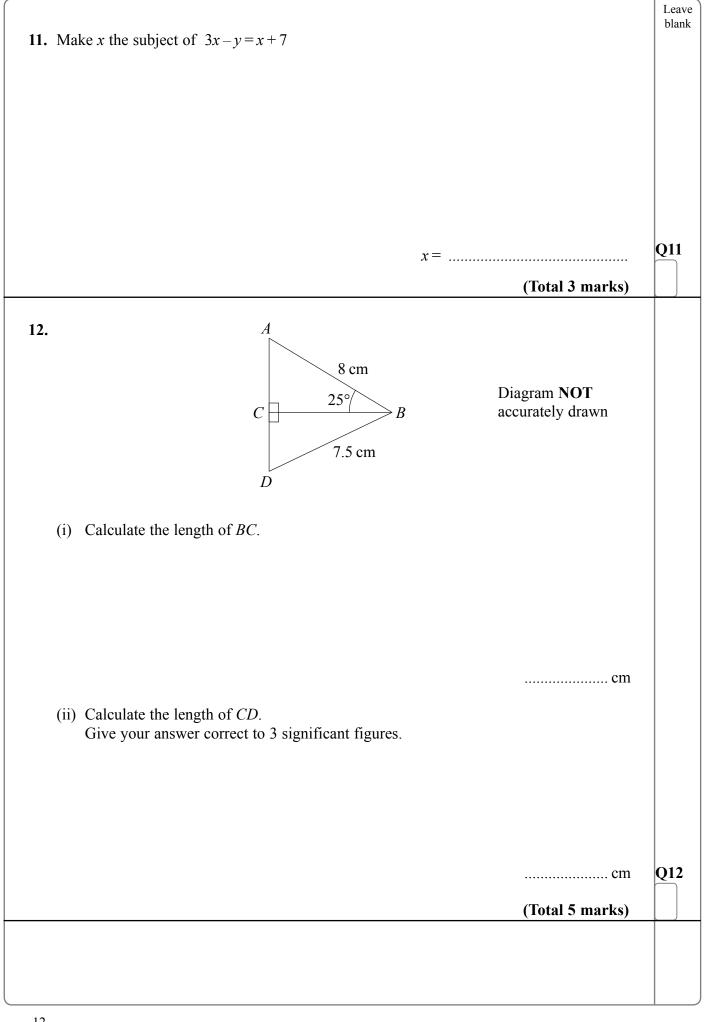
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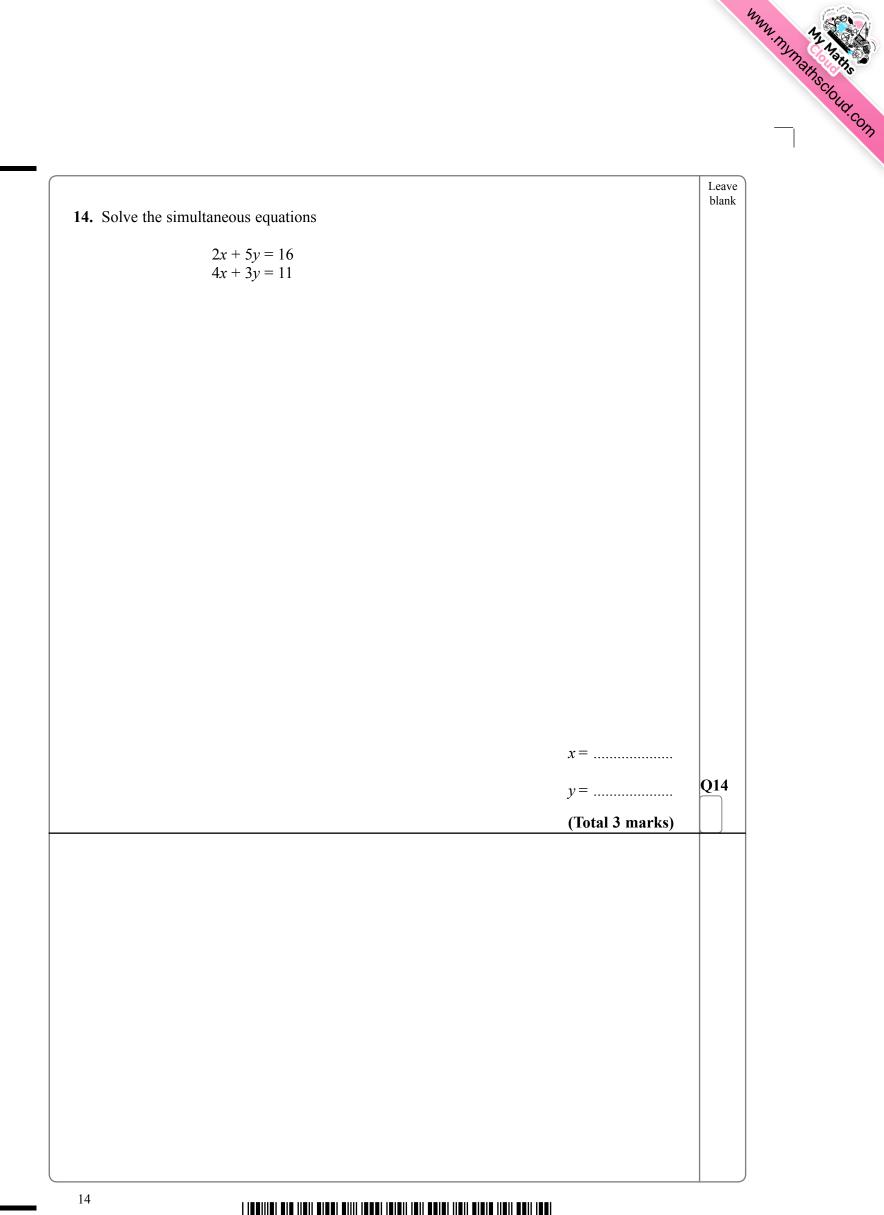


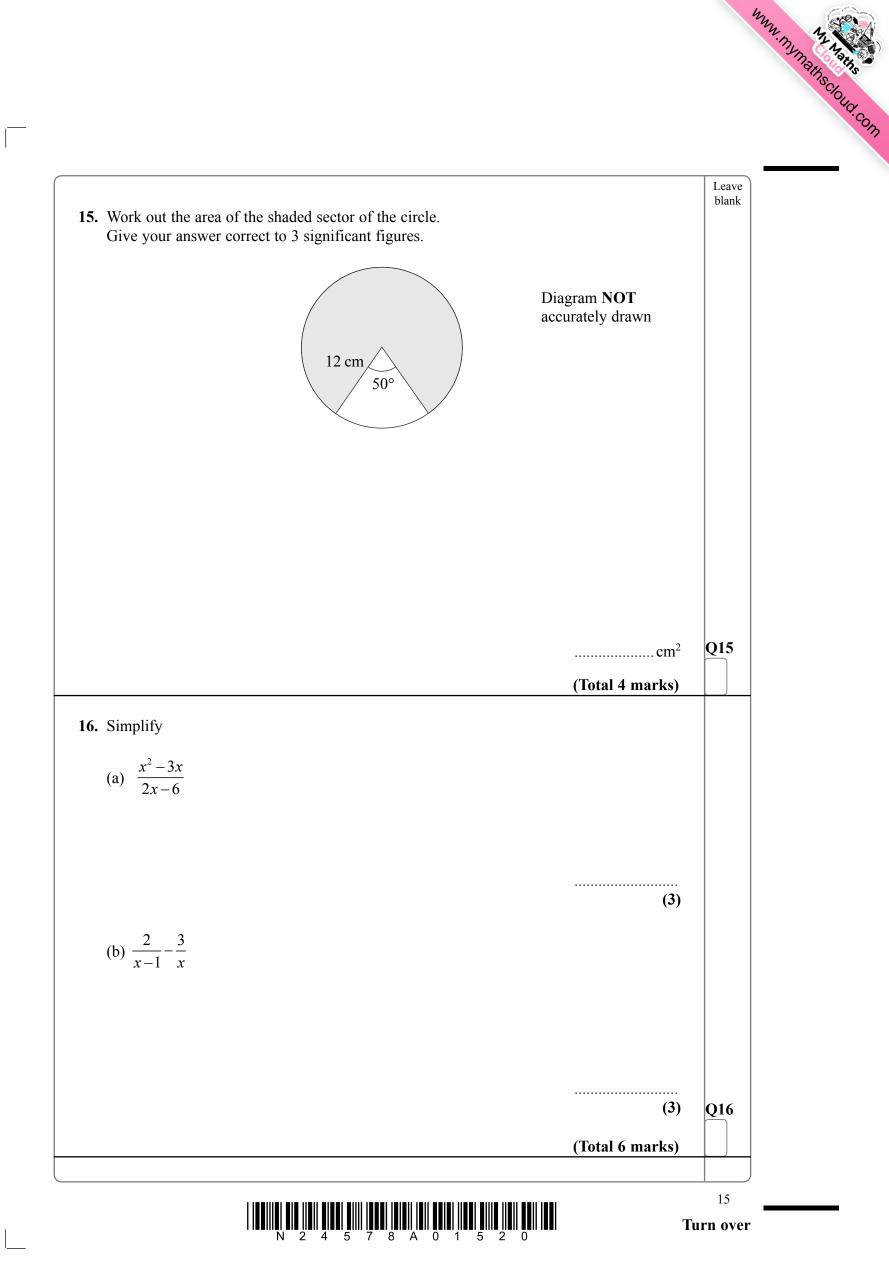
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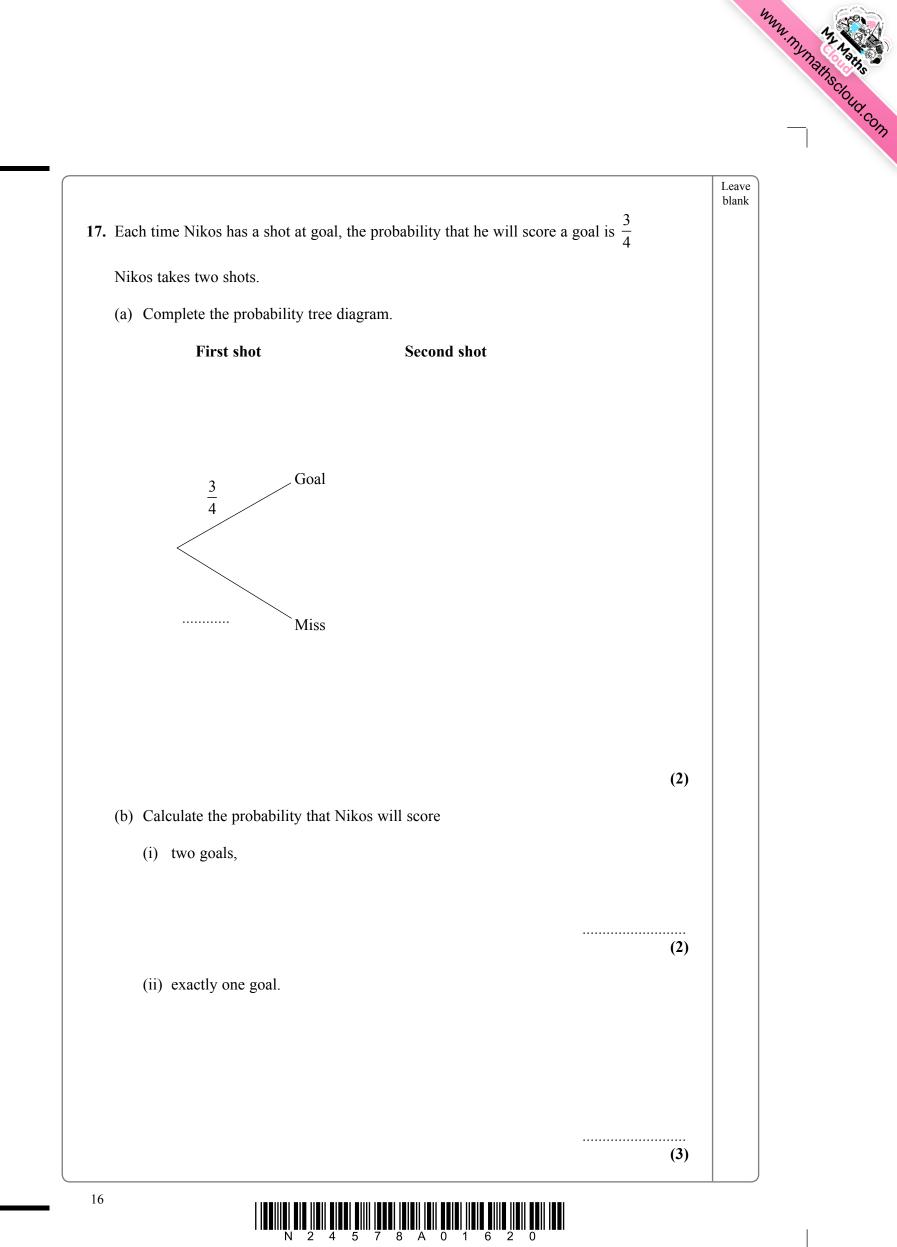
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13. Factorise		Leave blank	40.col.
(a) $x^2 - 100$			
(b) $x^2 - x - 12$	(1)		
	(2)		
(c) $3x^2 + 7x + 2$			
		Q13	
	(Total 5 marks)		
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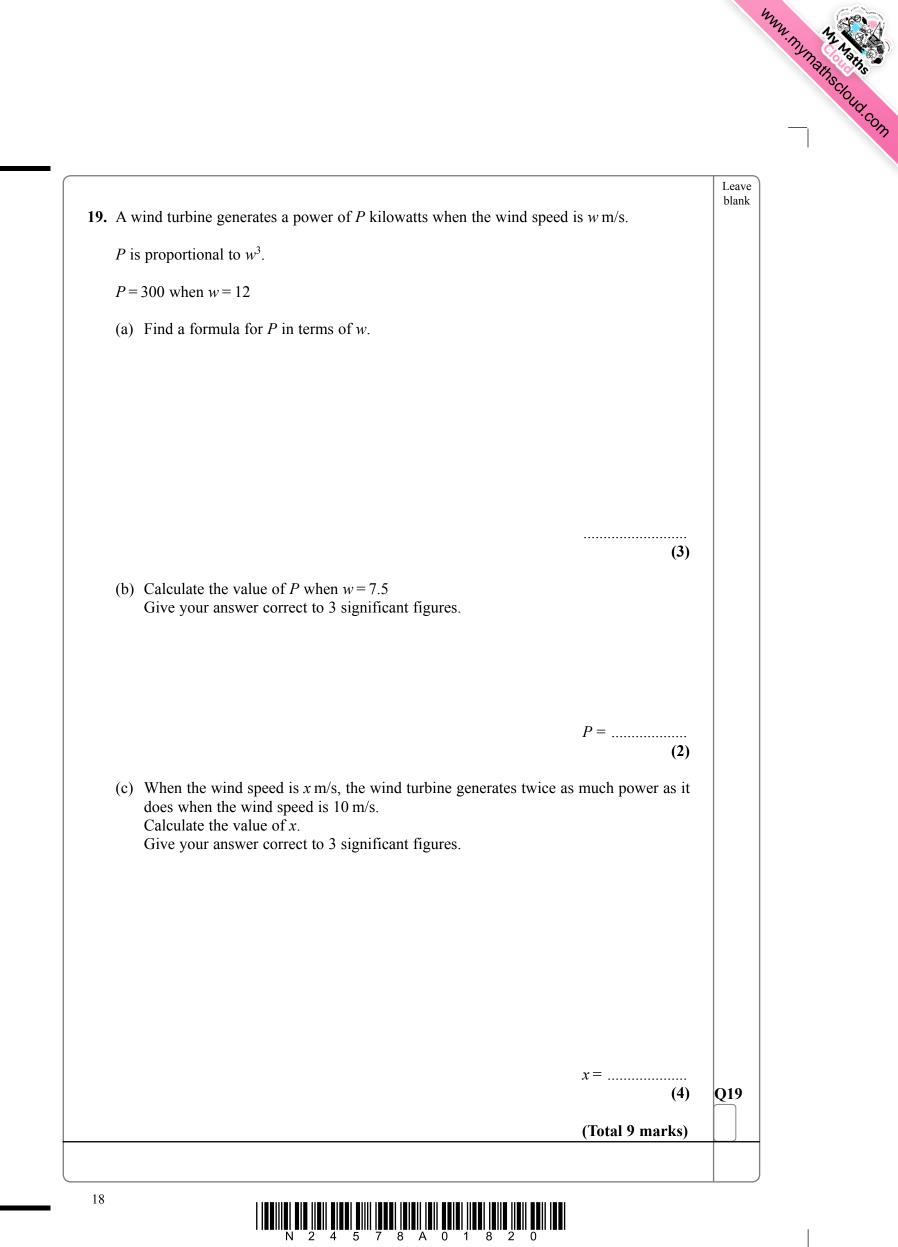


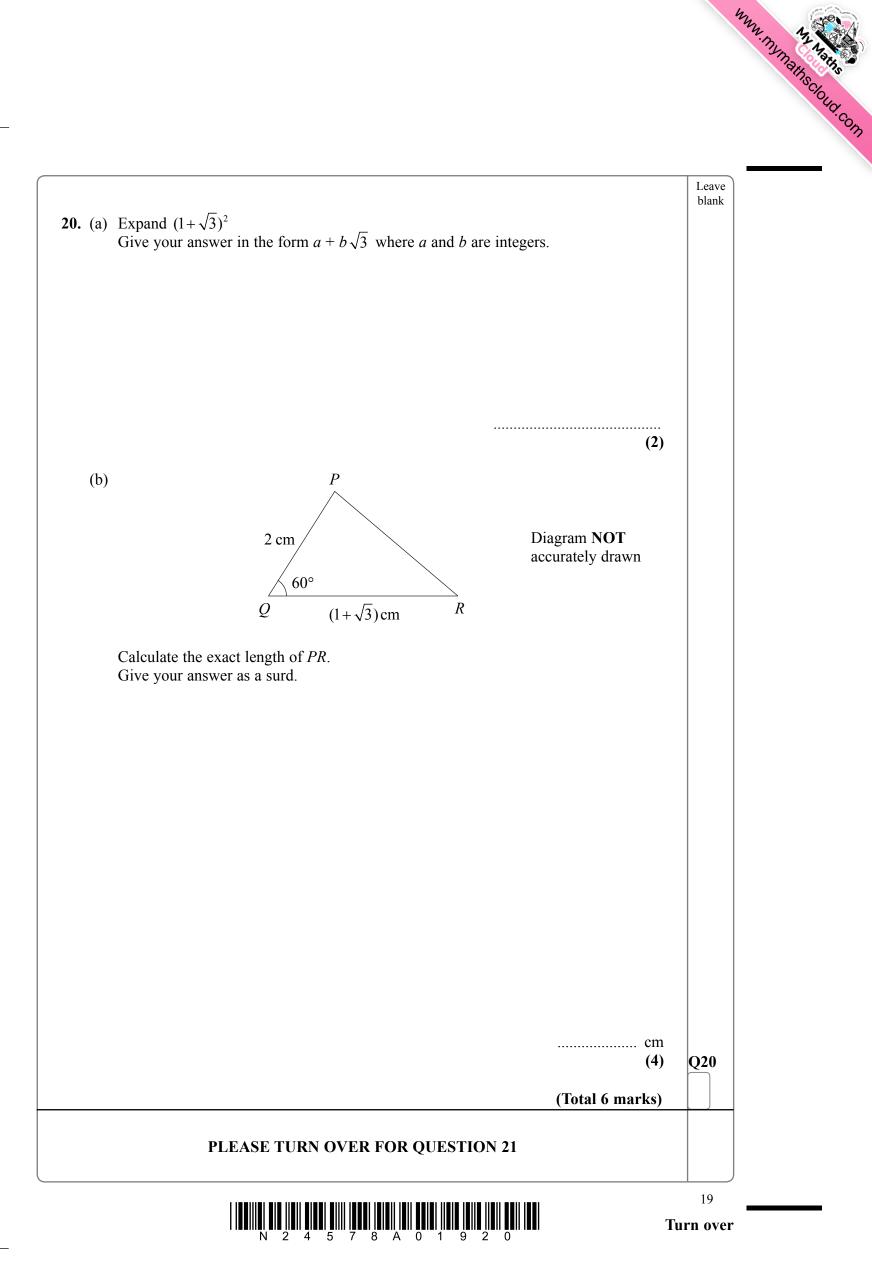




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<b>21.</b> A coin is biased so that the probability that it shows heads on any one throw is <i>p</i> . The coin is thrown twice. The probability that the coin shows heads exactly once is $\frac{8}{25}$	Leave blank
Show that $25p^2 - 25p + 4 = 0$	
(Total 3 marks)	Q21
TOTAL FOR PAPER: 100 MARKS	
END	

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