		RNATIONAL EXAMINATIONS condary Education
CANDIDATE	UNIVERSITY OF CAMBRIDGE INTER International General Certificate of Se	condary Education
NAME		
CENTRE NUMBER		CANDIDATE NUMBER
CAMBRIDGE	INTERNATIONAL MATHEMATICS	0607/02
Paper 2 (Exter	ided)	October/November 2011
		45 minutes
Candidates an	swer on the Question Paper	
Additional Mate	erials: Geometrical Instruments	

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.

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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.

CALCULATORS MUST NOT BE USED IN THIS PAPER.

All answers should be given in their simplest form.

You must show all the relevant working to gain full marks and you will be given marks for correct methods 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 40.

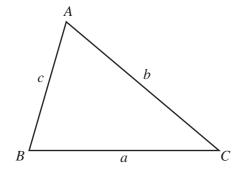
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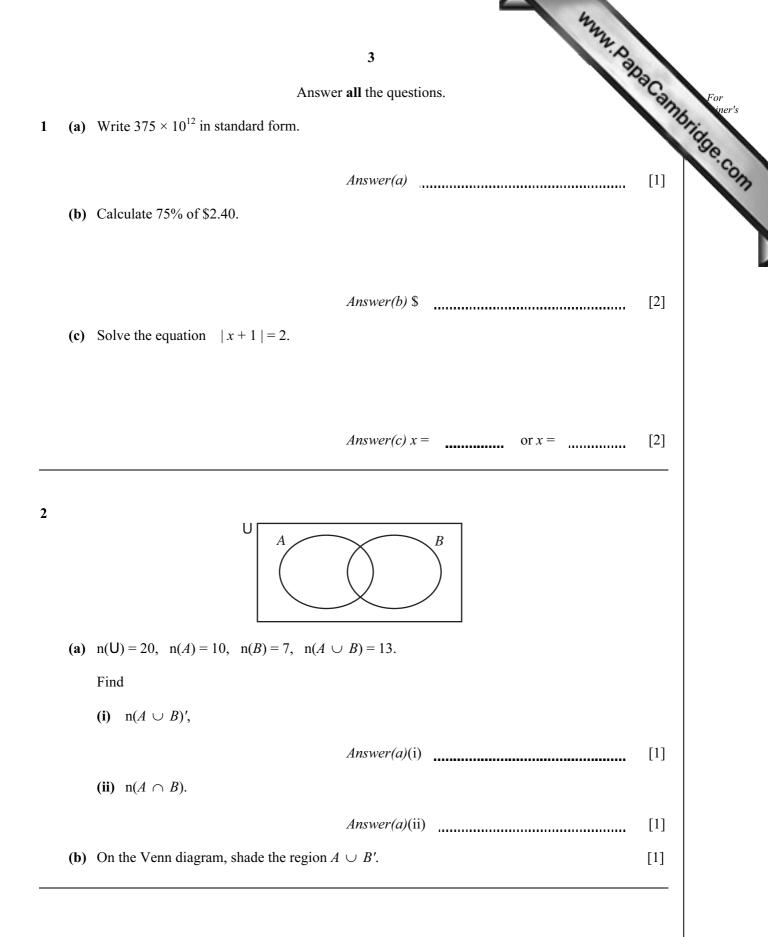
Formula List

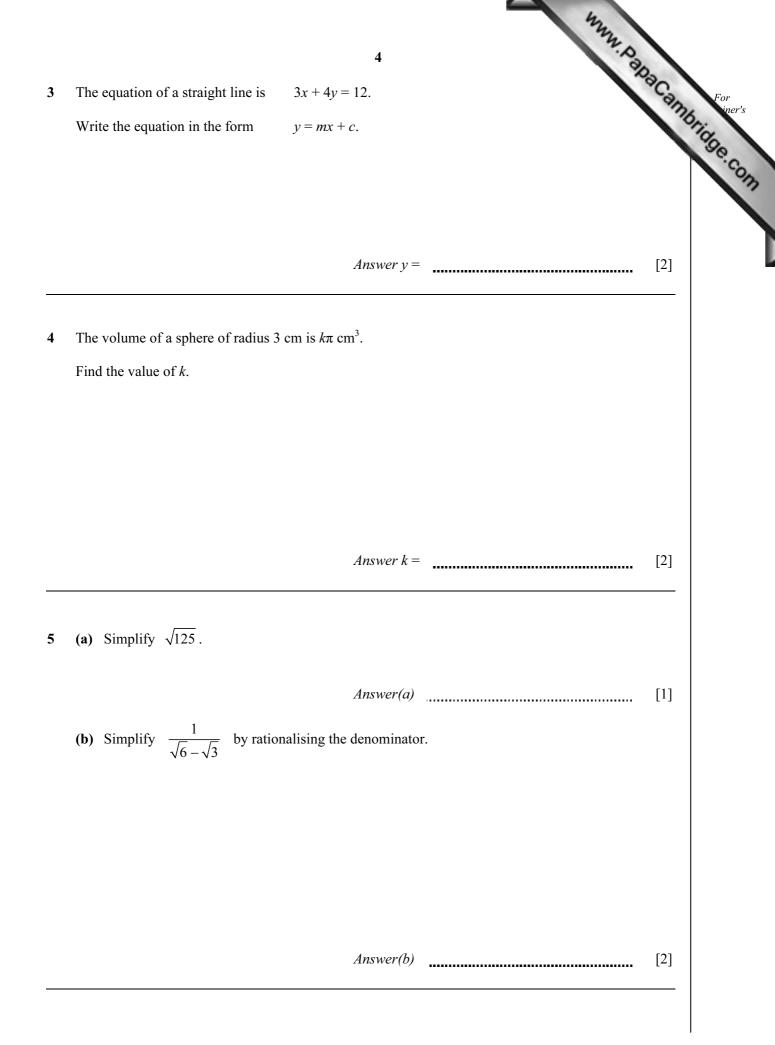
For the equation	$ax^2 + bx + c = 0$	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Curved surface area, A, of cyli	nder of radius <i>r</i> , height <i>h</i> .	$A = 2\pi rh$
Curved surface area, A, of con-	e of radius <i>r</i> , sloping edge <i>l</i> .	$A = \pi r l$
Curved surface area, A, of sphe	ere of radius <i>r</i> .	$A=4\pi r^2$
Volume, <i>V</i> , of pyramid, base a	rea A, height h.	$V=\frac{1}{3}Ah$
Volume, V, of cylinder of radi	us r, height h.	$V = \pi r^2 h$
Volume, <i>V</i> , of cone of radius <i>r</i>	, height <i>h</i> .	$V = \frac{1}{3}\pi r^2 h$
Volume, <i>V</i> , of sphere of radius	<i>r</i> .	$V = \frac{4}{3}\pi r^3$



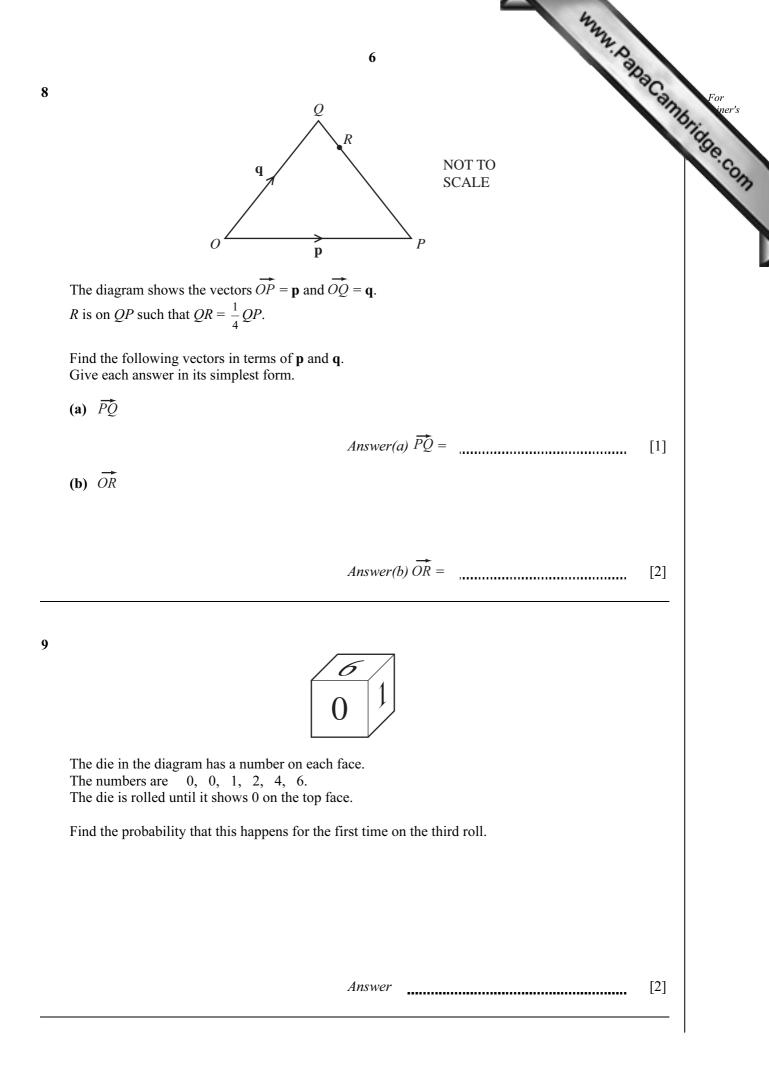
 $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ $a^2 = b^2 + c^2 - 2bc \cos A$ $\operatorname{Area} = \frac{1}{2}bc \sin A$

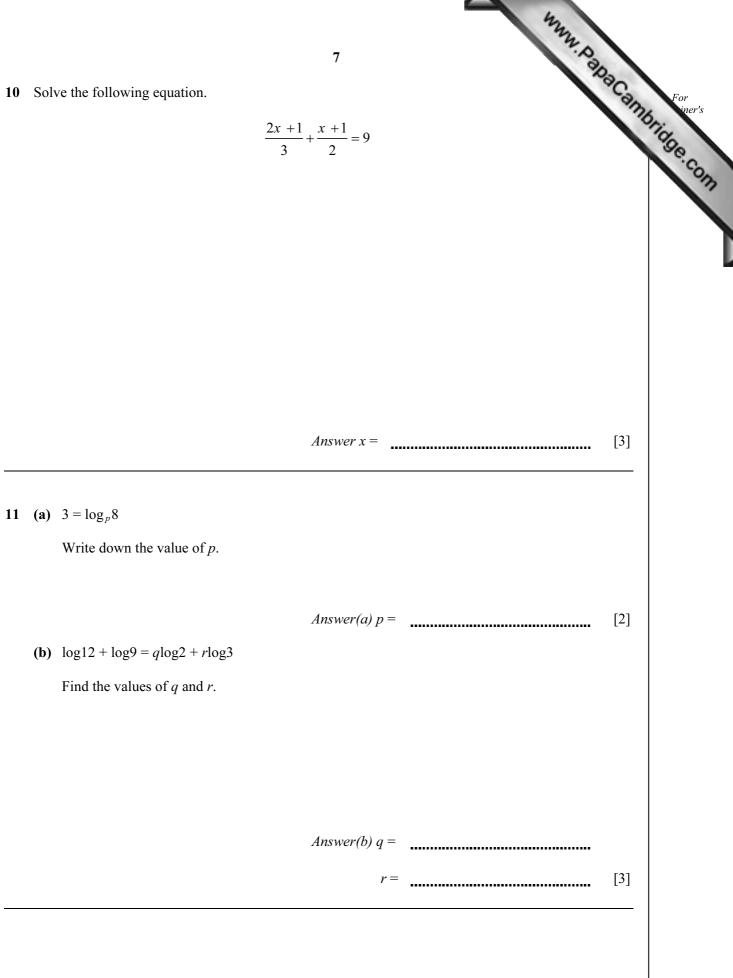
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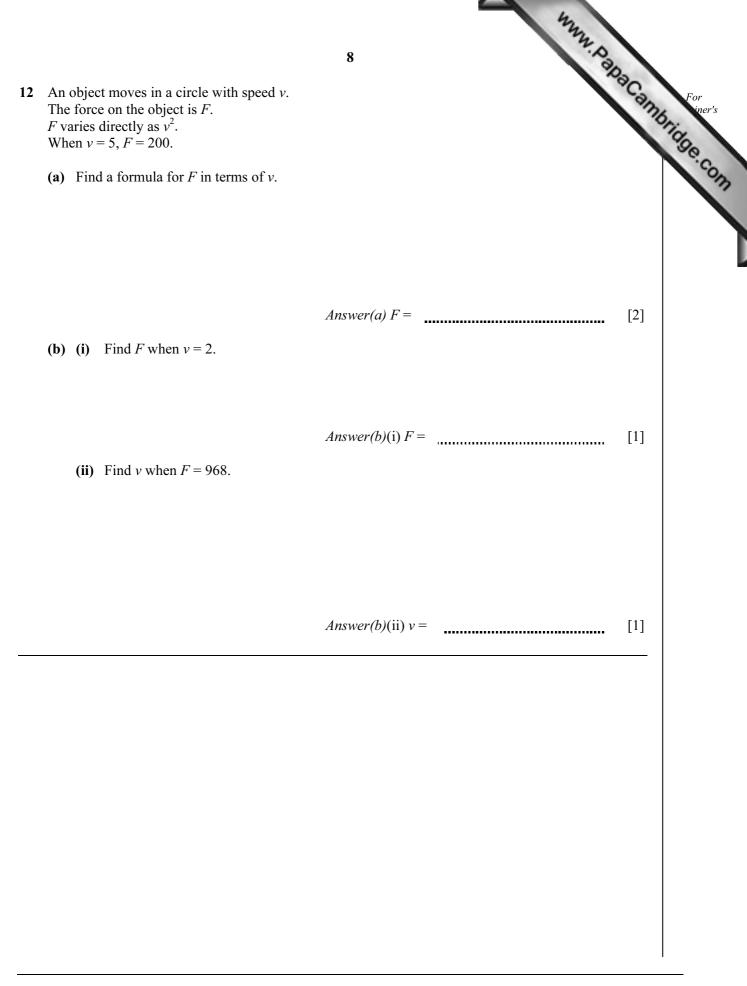


	42	
	5	
6	5 6, 12, 24, 48, 96, (a) Write down the next term in the sequence. (b) Find the 8th term in the sequence	aCan
	(a) Write down the next term in the sequence.	
	(a) Answer(a)	[1]
	(b) Find the 8th term in the sequence.	[+]
		543
	Answer(b)	[1]
	(c) Find an expression for the <i>n</i> th term of the sequence.	
	Answer(c)	[2]
7	Factorise completely.	
	(a) $x^2 - 2x - 24$	
	Answer(a)	[2]
	(b) $xy^2 - 4xz^2$	
	Answer(b)	[2]
		[4]





Question 12 is printed on the next page.



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