

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME									
CENTRE NUMBER	CANDIDA								
CAMBRIDGE INTERNATIONAL MATHEMATICS 0607/11									
CAMBRIDGE I	INTERNATIONAL MATHEMATICS	0607/11							
CAMBRIDGE I Paper 1 (Core)		0607/11 May/June 2012							
Paper 1 (Core)		May/June 2012							

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.

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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This document consists of **9** printed pages and **3** blank pages.



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Formula List

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C, of circle, radius r.	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A = 2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
Curved surface area, A , of sphere of radius r .	$A=4\pi r^2$
Volume, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	V=Al
Volume, V , of pyramid, base area A , height h .	$V = \frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$

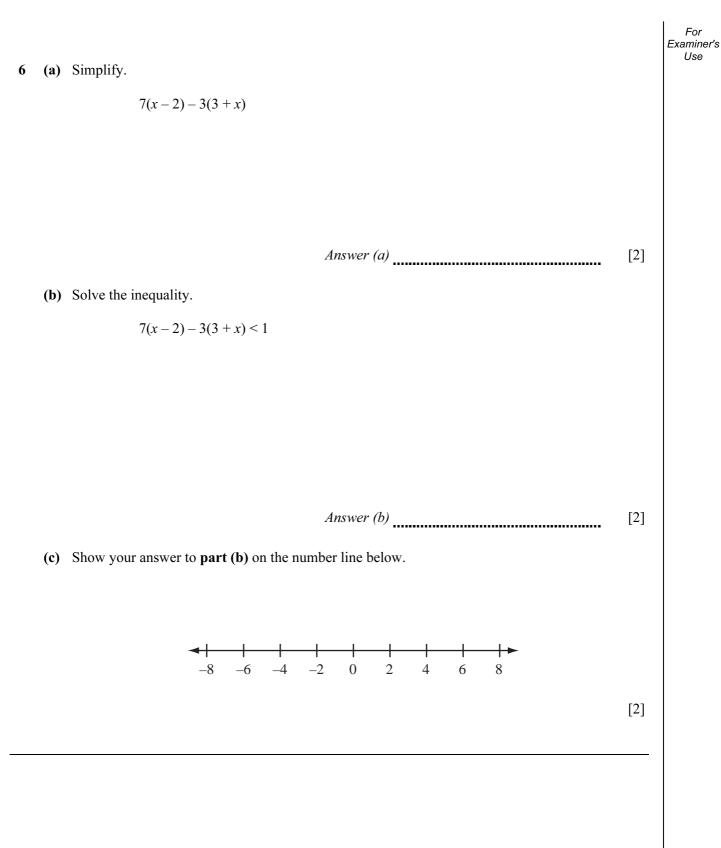
1	(a)	Answer Work out $(4-7)^2$.	all the questions.	For Examiner's Use
	(b)	Write down the value of $\sqrt{144}$.	Answer (a) [1]	
			<i>Answer (b)</i> [1]	
2	(a)	Write 0.00724538 correct to 3 significant	t figures.	
	(b)	Write your answer to part (a) in standard	<i>Answer (a)</i> [1] form.	
			<i>Answer (b)</i> [1]	
3	(a)	Write down the first three multiples of 6.		
	(b)	Find the lowest common multiple of 6 and	Answer (a), [1]	
			<i>Answer (b)</i> [2]	

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- 4
- 4 In the Venn diagram shade the region $A \cap B'$.

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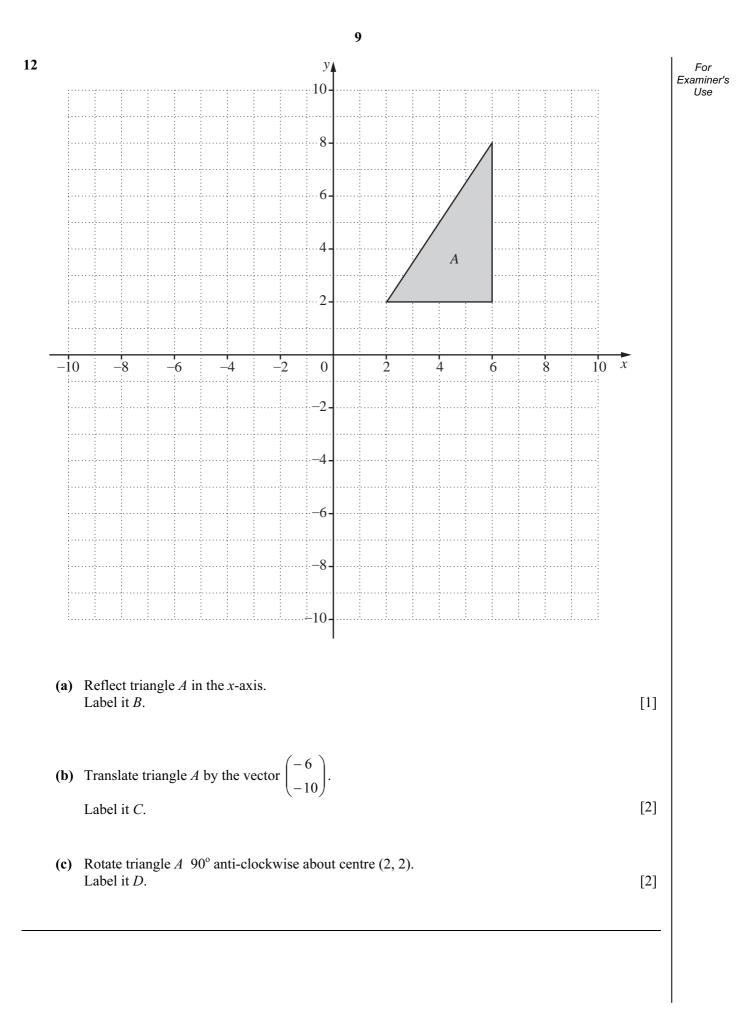


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For Examiner's 9 Alice takes examinations in German and French. Use The probability that she passes German is 0.3. The probability that she passes French is 0.6. (a) Complete the tree diagram. German French Pass Pass 0.3 Fail Pass Fail Fail [2] (b) Work out the probability that Alice passes German and fails French. Answer (b) [2]

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10	Lucy counts the number of words in each sentence of a film review. The number of words in each sentence is shown below.												For Examiner's Use		
		7	8		12	7	9	11	4	12	8	12			
	Finc	1													
	(a)	the mo	ode,												
								Answ	ver (a) <mark>.</mark> .					[1]	
	(b)	the me	ean,												
								Answ	ver (b) <mark></mark>					[2]	
	(c)	the ran	nge.												
								Ansv	ver (c) <mark>.</mark> .					[1]	
11	One lap of the Melbourne Grand Prix circuit is 5200 metres. A racing driver completes a lap in 1.3 minutes.														
	Calculate his average speed in kilometres per hour.														
								A	nswer				km/h	[3]	



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