

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
CAMBRIDGE II	NTERNATIONAL MATHEMATICS	0607/01
Paper 1 (Core)		October/November 2010
		45 minutes
Candidates ans	wer on the Question Paper	
Additional Mate	rials: 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.

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 10 printed pages and 2 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, <i>C</i> , of circle, radius <i>r</i> .	$C = 2\pi r$
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 .	$V = \frac{4}{3}\pi r^3$

		Answer all the que	estions.		For Examiner's
1	(a) (b)	Find the lowest common multiple of 6 and 9. Work out $5^2 - 2^3$.	Answer(a)	[1]	Use
			Answer(b)	[2]	
2	(a)	Samir and Josef divide \$250 in the ratio 2 : 3. Calculate how much money each receives.	<i>Answer(a)</i> Samir \$ Josef \$	[2]	
	(b)	A recipe for 3 people needs 600 g of pasta. Work out how much pasta is needed for 8 people.			
			Answer(b) g	[2]	

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) Plot the mean point on the scatter diagram.							[1]		
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