	UNIVERSITY OF CAMBRIDGE INTERN International General Certificate of Second	ATIONAL EXAMINATIONS ndary Education	Cambridge.
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
CAMBRIDGE	INTERNATIONAL MATHEMATICS	0	607/13
Paper 1 (Core)		May/Jun	e 2012
		45 m	ninutes
Candidates an	swer on the Question Paper		
Additional Mat	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.

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

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 .	$V = \frac{4}{3}\pi r^3$

1

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	3	20.
(a) Work and 0.2×0.4	Answer all the questions	aCam
(a) work out 0.2×0.4 .		
	Answer (a)	[1]
(b) Write these in order, sma	allest first.	
0.85	89% 0.9 0.745	
Answer (b)	< < < <	[1]
work out 1970 of \$100 .		
	Answer \$	[2]
(a) Write 0.007582 correct to	to 3 significant figures.	
(a) Write 0.007582 correct to	to 3 significant figures.	[1]
 (a) Write 0.007582 correct to (b) Write ⁹/₂₀ as a decimal. 	to 3 significant figures. Answer (a)	[1]
 (a) Write 0.007582 correct to (b) Write ⁹/₂₀ as a decimal. 	to 3 significant figures. Answer (a)	[1]
(a) Write 0.007582 correct to (b) Write $\frac{9}{20}$ as a decimal.	to 3 significant figures. Answer (a) Answer (b)	[1]

Answer [3] • Find the value of 7°. Image: Answer (a)	$Answer \dots [3]$) Find the value of 7 ⁰ . $Answer (a) \dots [1]$) Simplify. $7x^2 \times 3x^5$ $Answer (b) \dots [2]$	Vork out. $2\frac{3}{4} + 3\frac{2}{3}$	4 human Box	23Cann
Find the value of 7 ⁰ . Answer (a) [1] Simplify. $7x^2 \times 3x^5$ Answer (b) [2]) Find the value of 7 ⁰ . Answer (a) [1]) Simplify. $7x^2 \times 3x^5$ Answer (b) [2]		Answer	[3]
Answer (a) [1] 9 Simplify. $7x^2 \times 3x^5$ Answer (b) [2]	Answer (a) [1]) Simplify. $7x^2 \times 3x^5$ Answer (b) [2]) Find the value of 7^0 .		
<i>Answer (b)</i> [2]	Answer (b) [2]	b) Simplify. $7x^2 \times 3x^5$	Answer (a)	[1]
			Answer (b)	[2]







- 11 $U = \{2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$ $P = \{\text{prime numbers}\}$ $F = \{ \text{factors of } 6 \}$
 - (a) Complete the Venn diagram to show this information.



Answer (b)(ii) [1]

8





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