	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATION	WWWW, Papacanbrid
CANDIDATE		3e.
NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
CAMBRIDGE	NTERNATIONAL MATHEMATICS	0607/12
Paper 1 (Core)		May/June 2011
		45 minutes
Candidates and	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.

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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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This document consists of **10** printed pages and **2** blank pages.



Formula List

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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, <i>V</i> , of sphere of radius <i>r</i> .	$V = \frac{4}{3}\pi r^3$











The mapping diagram shows the function $f(x) = 3x - x$ $x \longrightarrow (2)$ $5 \longrightarrow (2)$ $7 \longrightarrow (2)$ $7 \longrightarrow (2)$ $5 \longrightarrow (2)$ $7 \longrightarrow (2)$	-2. $-3x-2$ -4 p 19
(b) Write down the range of f(x).Answ	ver(a) p =
The <i>n</i> th term of a sequence is $2n - 5$. (a) Write down the first term of this sequence.	
(b) Write down the 60th term of this sequence.	<i>ver(a)</i> [1]
Answ	ver(b) [1]





Answer(a) [1]

- (b) The mean temperature was 22 °C and the mean number of hot drinks sold was 65.
 - (i) Plot the mean point on the scatter diagram above. [1]
 - (ii) Draw the line of best fit on the scatter diagram. [1]



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