

### UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER	CANDIDATE NUMBER	
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° 5	CAMBRIDGE I	0607/01	
N	Paper 1 (Core)		
			May/June 2010
			May/June 2010 45 minutes
1 0 0 8		wer on the Question Paper	-

### **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 8 printed 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 $r$ .	$V = \frac{4}{3}\pi r^3$

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For Answer **all** the questions. Examiner's UseWrite down the value of 1 (a)  $2^3$ , Answer(a) [1] **(b)** 2<sup>0</sup>. Answer(b) ..... [1] Simplify  $\frac{4+8}{4\times 8}$ . 2 Give your answer as a fraction in its lowest terms. [2] Answer  $p = 2 \times 10^{5}$ 3 Find the value of 6*p*, giving your answer in standard form. [2] Answer

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(a) State whether the data is discrete or continuous. Answer(a) (b) The heights, correct to the nearest metre, are shown below.

The heights of 20 buildings are measured.

4

12	10	15	18	8	9	23	26	14	21
11	16	20	21	22	13	22	25	17	19

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Draw an ordered stem-and-leaf diagram to show this information.

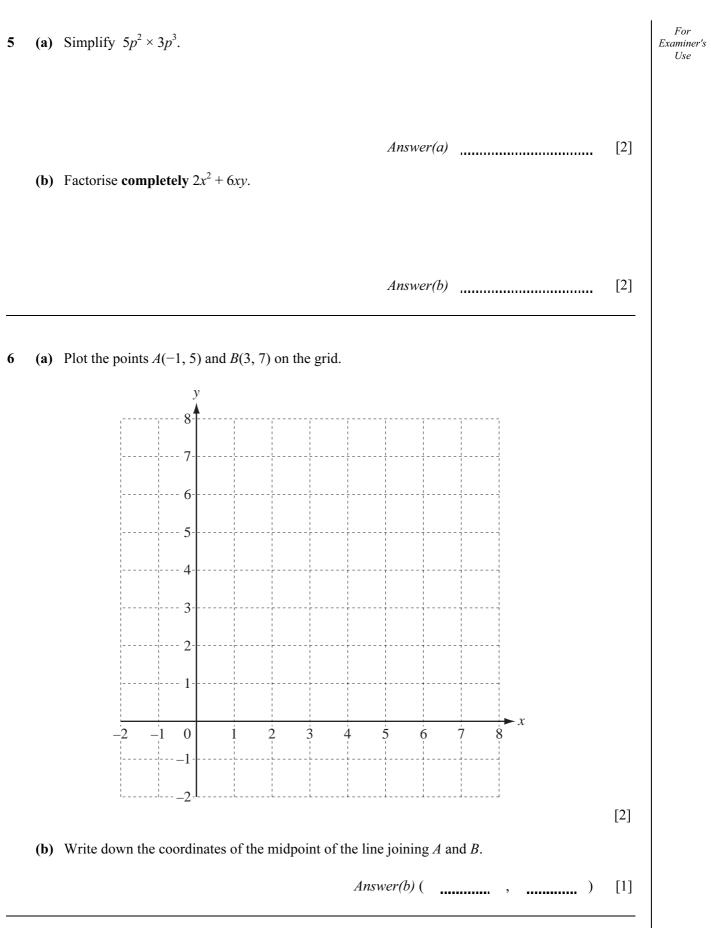
(c) Work out the range of the heights.

Answer(c) m [1]

[3]

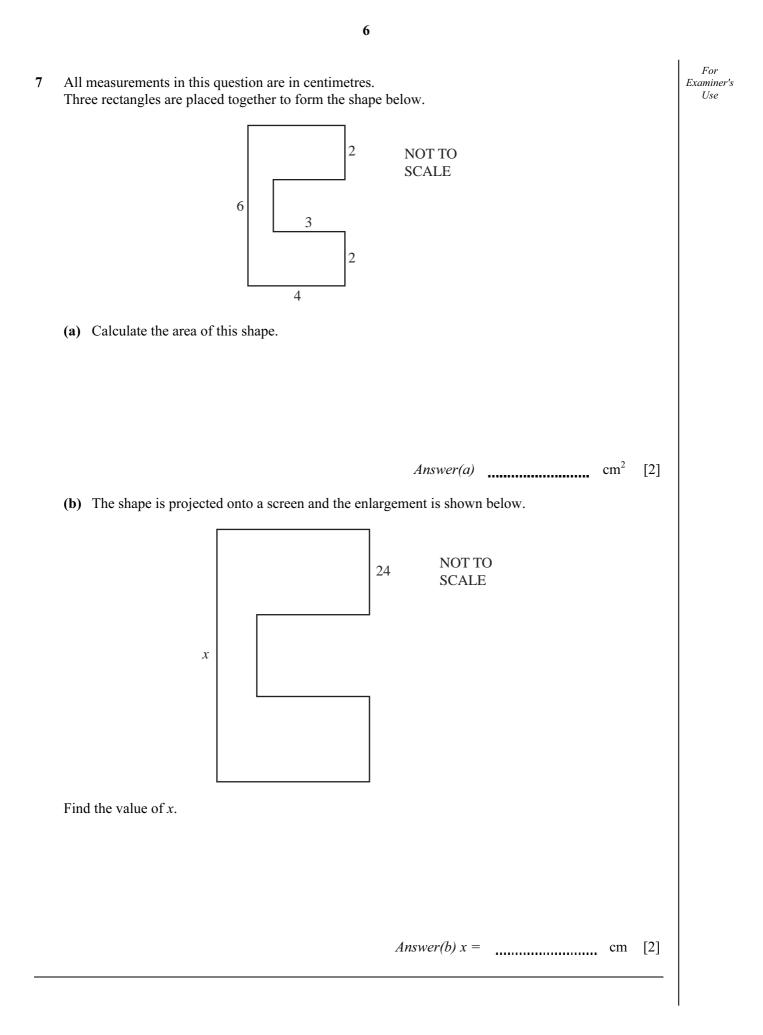
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[1]



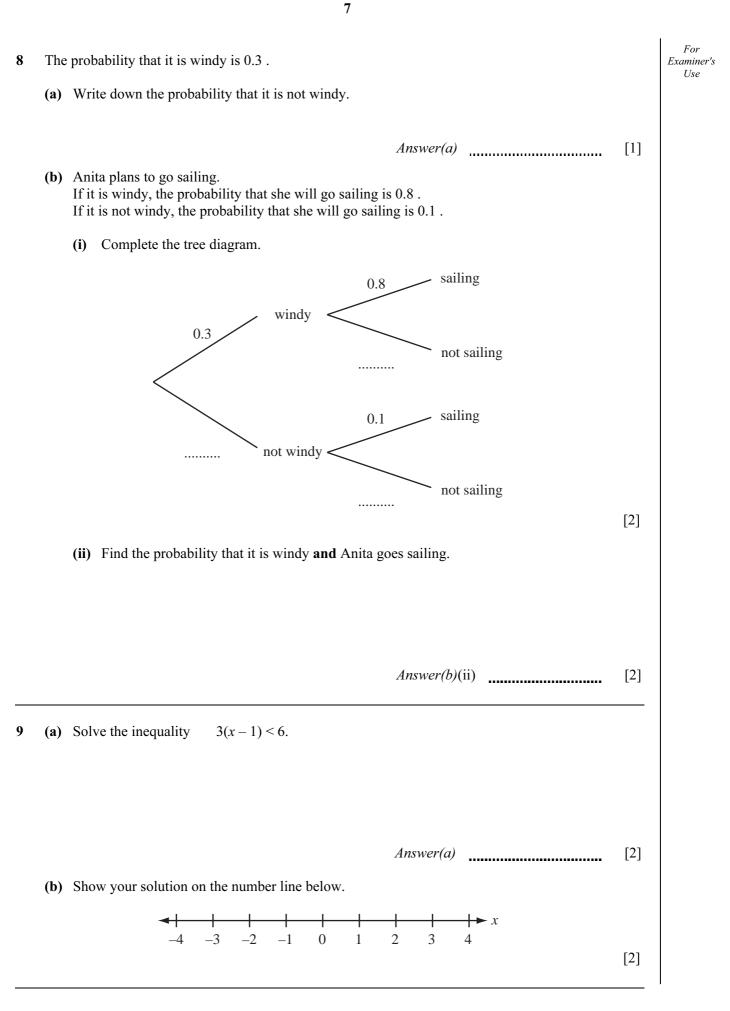
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