

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER	CANDIDATE NUMBER	
* 4 0		NTERNATIONAL MATHEMATICS	0607/12
7 5 7 7	Paper 1 (Core)	was as the Ouesties Depart	May/June 2011 45 minutes
	Candidates ans	wer on the Question Paper	
8 3 4	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.

For Examiner's Use

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

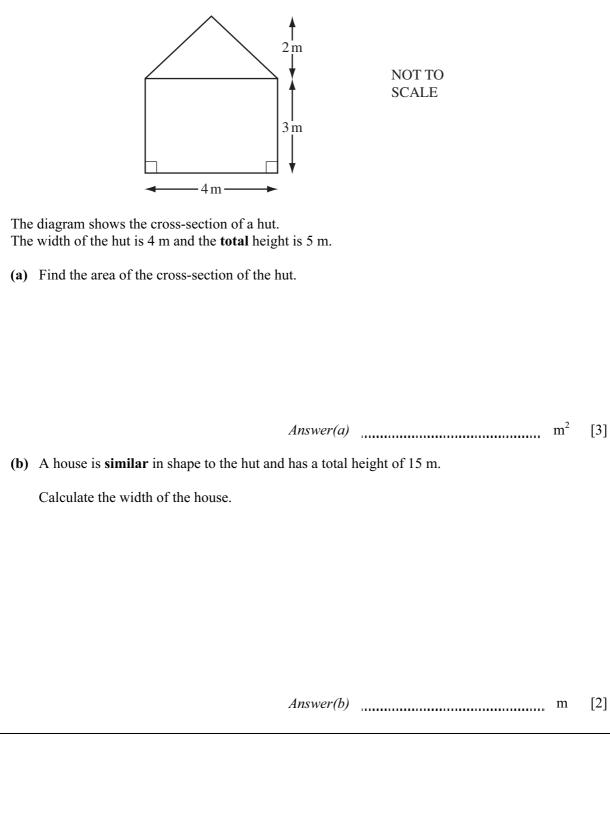


Formula List

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, 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 .	$V = \frac{4}{3}\pi r^3$

For Answer **all** the questions. Examiner's Use(a) Write 2490 correct to 1 significant figure. 1 Answer(a) [1] (b) Write 356000 in standard form. Answer(b) [1] 2 (a) Solve the equation. 6x - 10 = x + 5Answer(a) x =[2] (b) Expand and simplify. 3(2x+1) - 2xAnswer(b) [2]

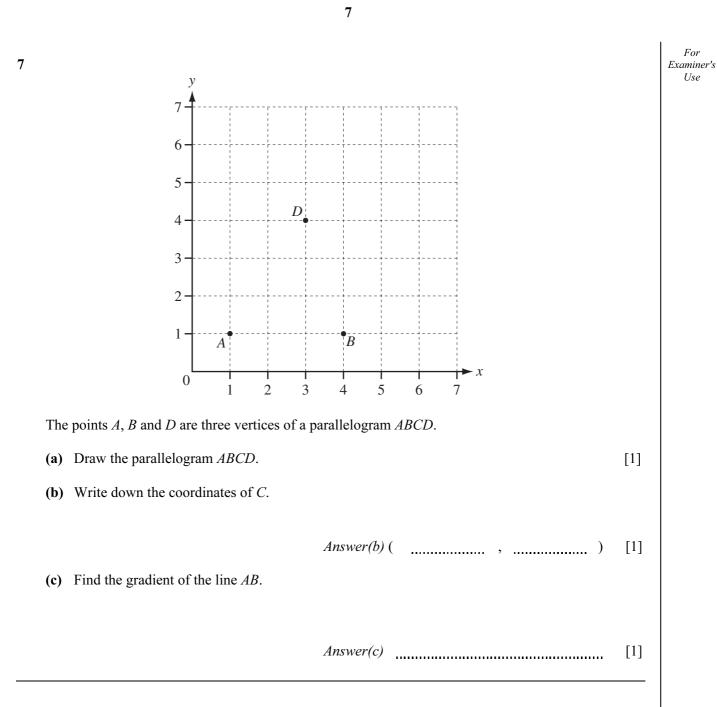
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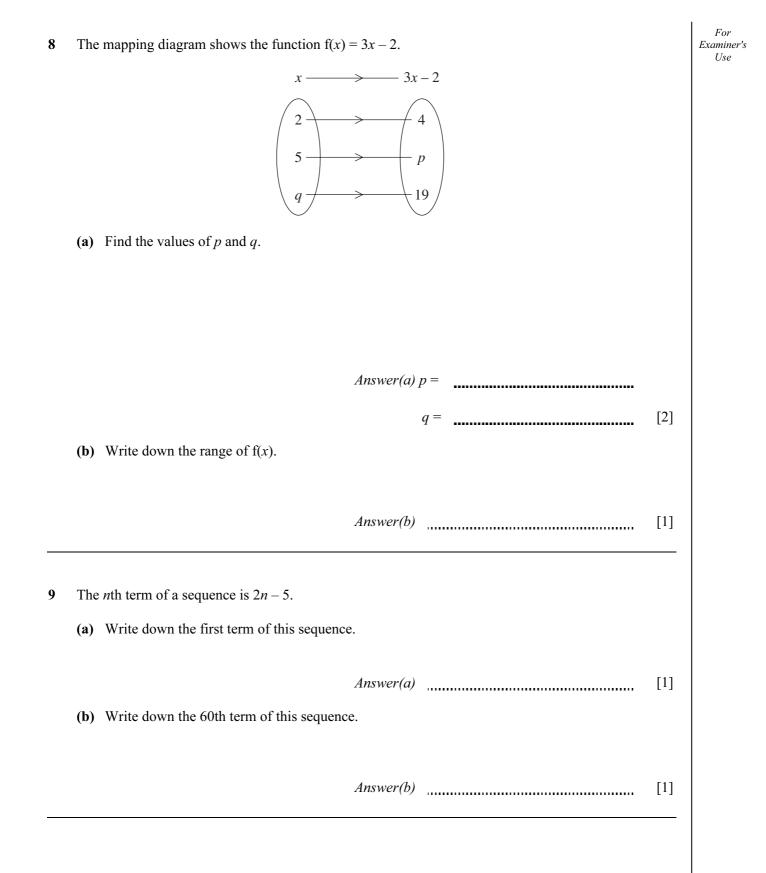


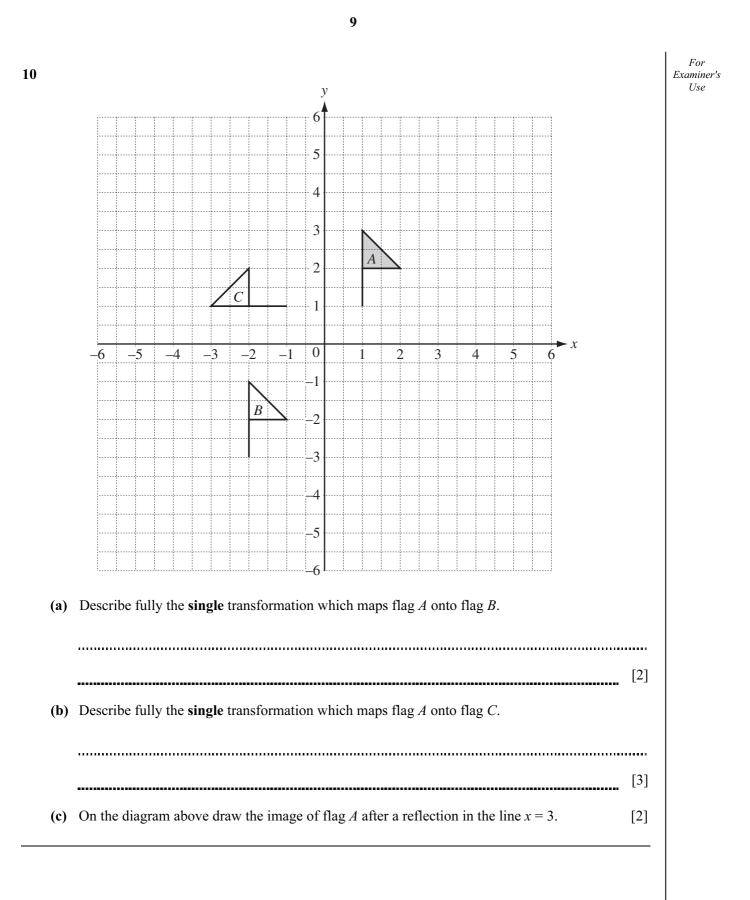
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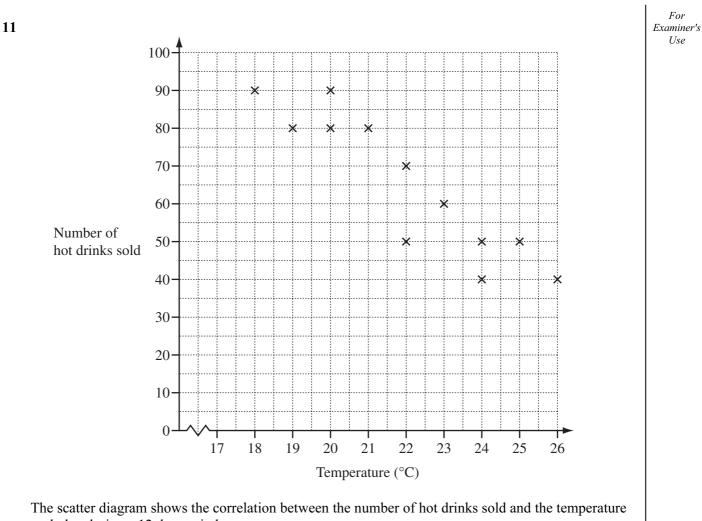
Examiner's Use

5	(a) Work out 3^{-2} .	For Examiner's Use	;
	(b) Factorise completely. $8pq - 4q^2$	[1]	
	(c) Simplify. $\frac{x^{6}}{x^{3}}$	[2]	
	Answer(c)	[1]	
6	A train leaves Geneva at 09 10 and arrives in Verona at 14 10. The distance from Geneva to Verona is 390 km. Calculate the average speed of the train in km/h. <i>Answer</i> km/h	[3]	









each day during a 12 day period.

(a) Use one word to describe the correlation.

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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