

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
CENTRE NUMBER		DIDATE IBER
CAMBRIDGE I	INTERNATIONAL MATHEMATICS	0607/13
CAMBRIDGE I Paper 1 (Core)		0607/13 May/June 2012
Paper 1 (Core)		May/June 2012

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 9 printed pages and 3 blank pages.



Formula List

2

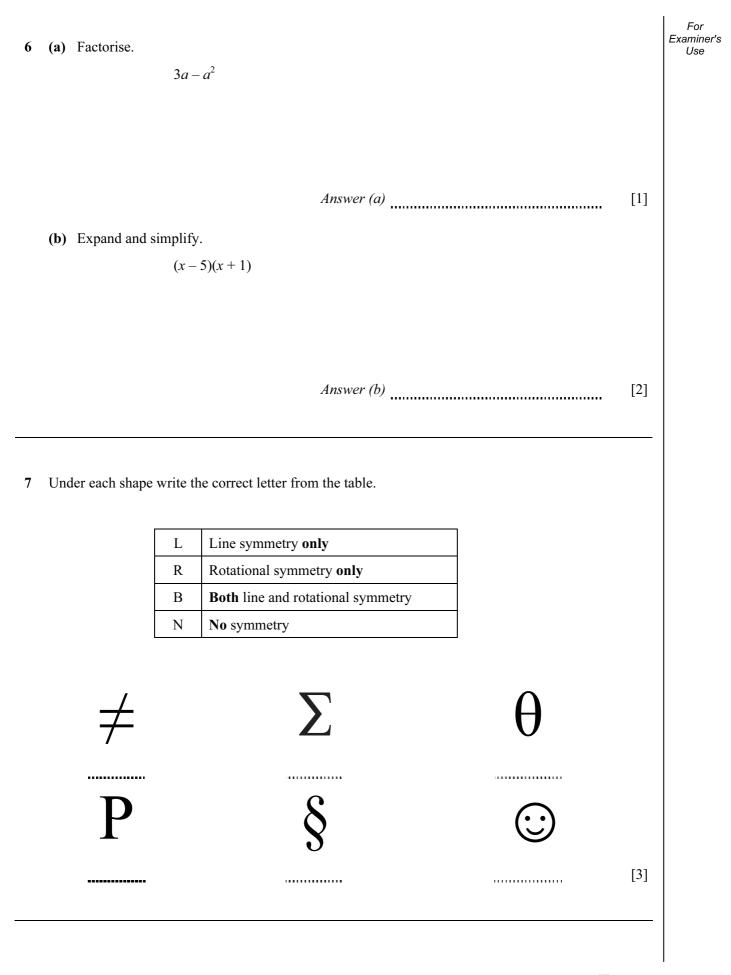
Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C , of circle, radius r .	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A = 2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
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 .	$V = \frac{4}{3}\pi r^3$

Answer **all** the questions

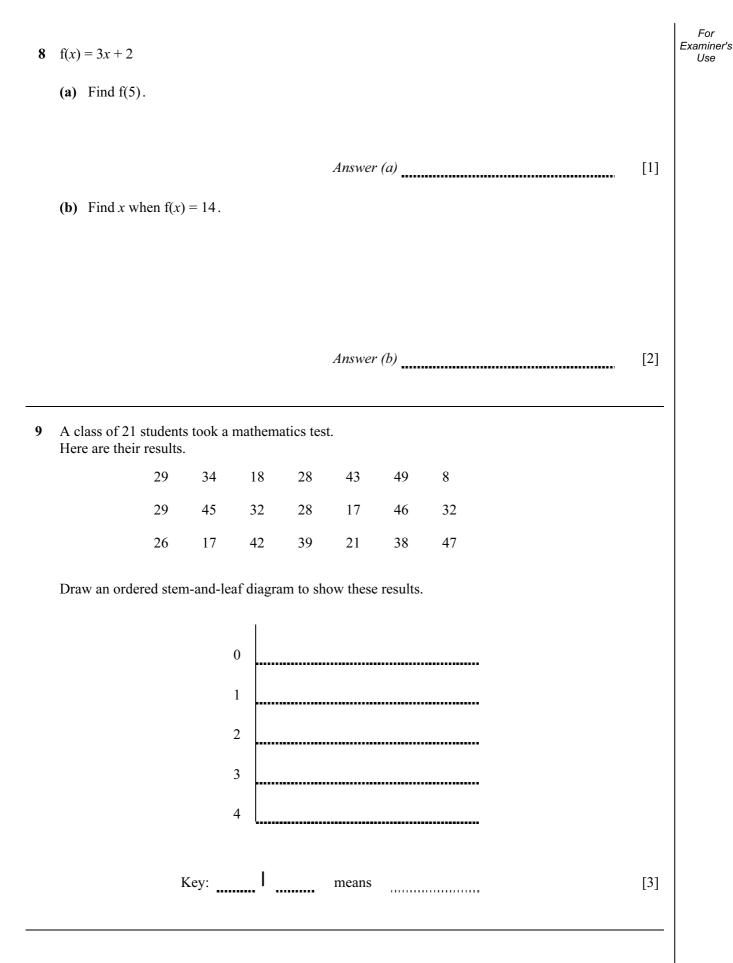
	Answei an me questions		
1	(-) We denote 0.2×0.4	For Examiner's Use	
1	(a) Work out 0.2×0.4 .	030	
	Answer (a) [1]		
	(b) Write these in order, smallest first.		
	0.85 89% 0.9 0.745		
	Answer (b) < < < [1]		
2	Work out 15% of \$160.		
	Answer \$ [2]		
3	(a) Write 0.007582 correct to 3 significant figures.		
0	(a) White 0.007502 confect to 5 significant ingares.		
	$Answer(a) \qquad [1]$		
	9		
	(b) Write $\frac{9}{20}$ as a decimal.		
	$Answer(b) \qquad [1]$		
		1	

4	Work out. $2\frac{3}{4} + 3\frac{2}{3}$		For Examiner's Use
	Answer	[3]	
5	(a) Find the value of 7^0 .		
	(b) Simplify. $7x^2 \times 3x^5$	[1]	
	Answer (b)	[2]	

4



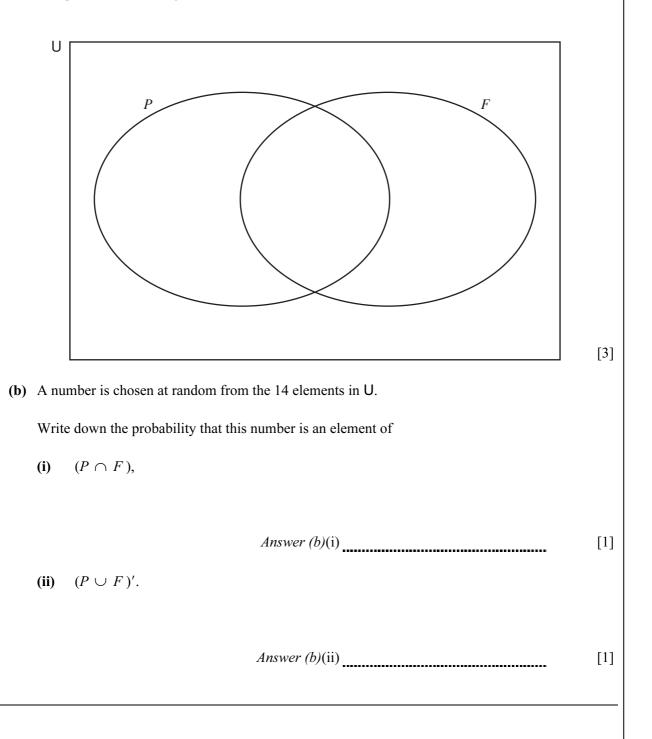
https://xtremepape.rs/



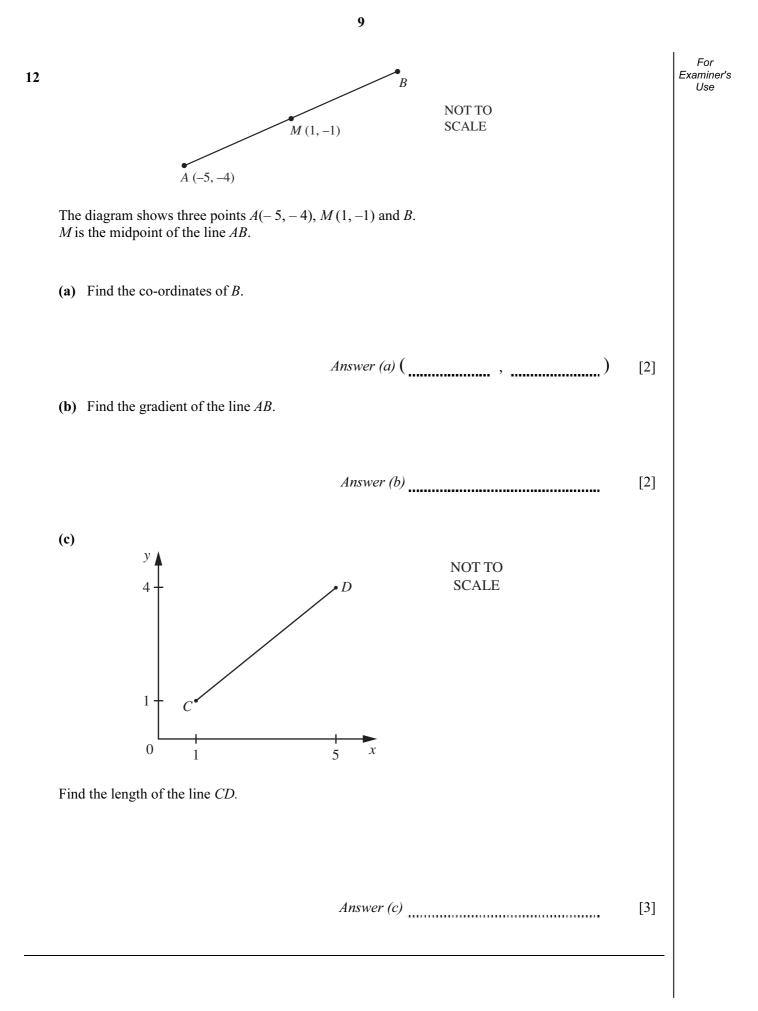
© UCLES 2012

10 ((a)	Solve.	5x - 2 < 3x + 5			For Examiner's Use
((b)	Simplify.	$\frac{7}{xy} \div \frac{3x}{2y}$	Answer (a)	[2]	
				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.



https://xtremepape.rs/



BLANK PAGE

BLANK PAGE

© UCLES 2012

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

© UCLES 2012