	UNIVERSITY OF CAMBRIDGE INTE International General Certificate of Se	ERNATIONAL EXAMINATIONS	Papacambridge.co
CANDIDATE			Se.co.
CENTRE NUMBER		CANDIDATE NUMBER	
	NTERNATIONAL MATHEMATICS		0607/01
Paper 1 (Core)		October/No	vember 2010
			45 minutes
Candidates ans	swer on the Question Paper		
Additional Mate	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.

0 6

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.



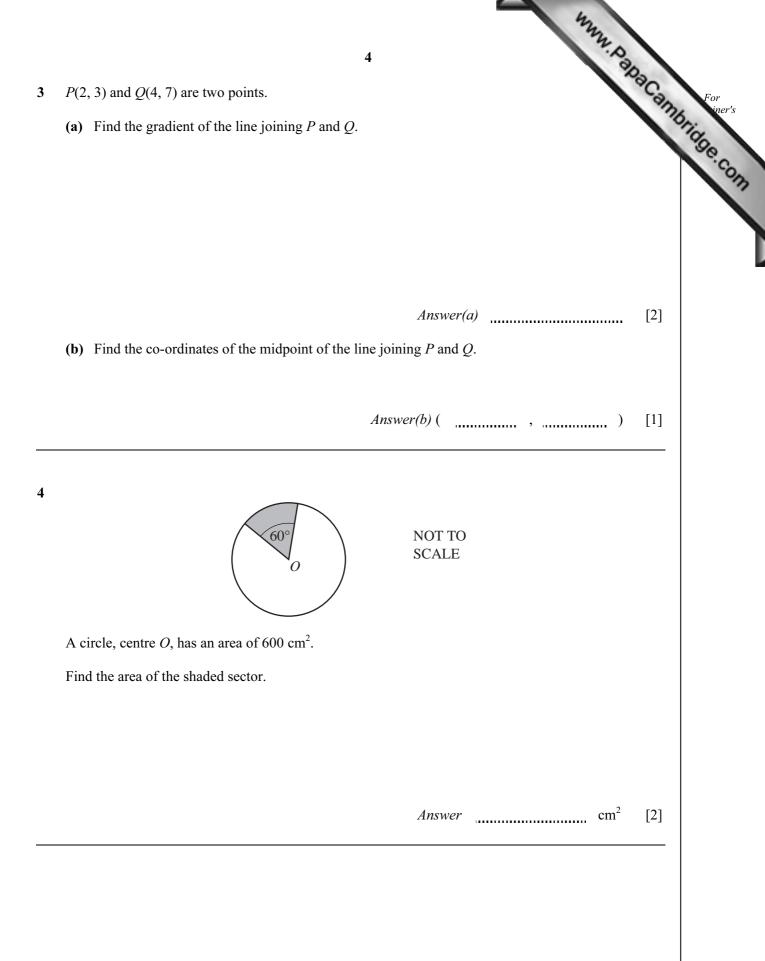


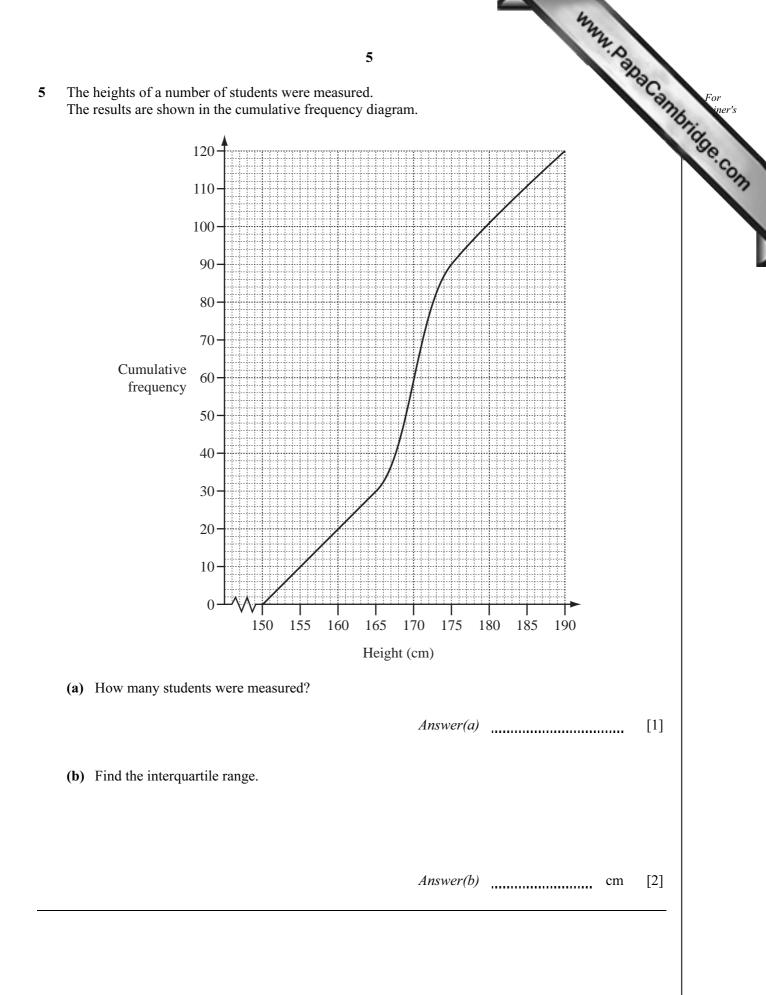
Area, $A$ , of triangle, base $b$ , height $h$ .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C, of circle, radius r.	$C = 2\pi r$
Curved surface area, $A$ , of cylinder of radius $r$ , height $h$ .	$A = 2\pi rh$
Curved surface area, $A$ , of cone of radius $r$ , sloping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

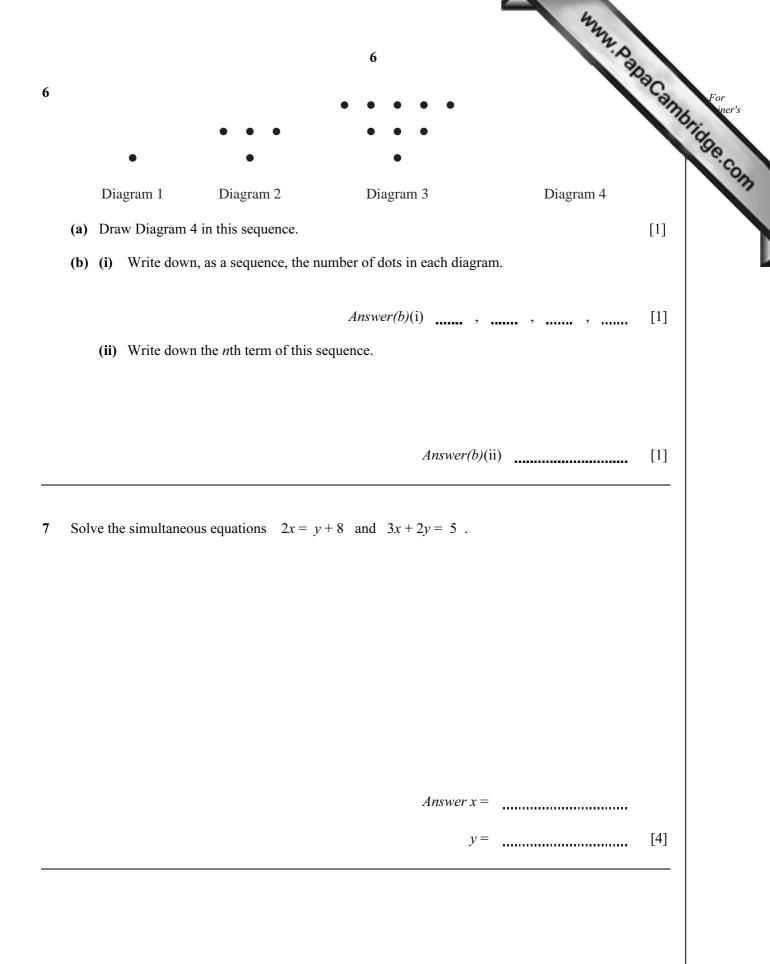
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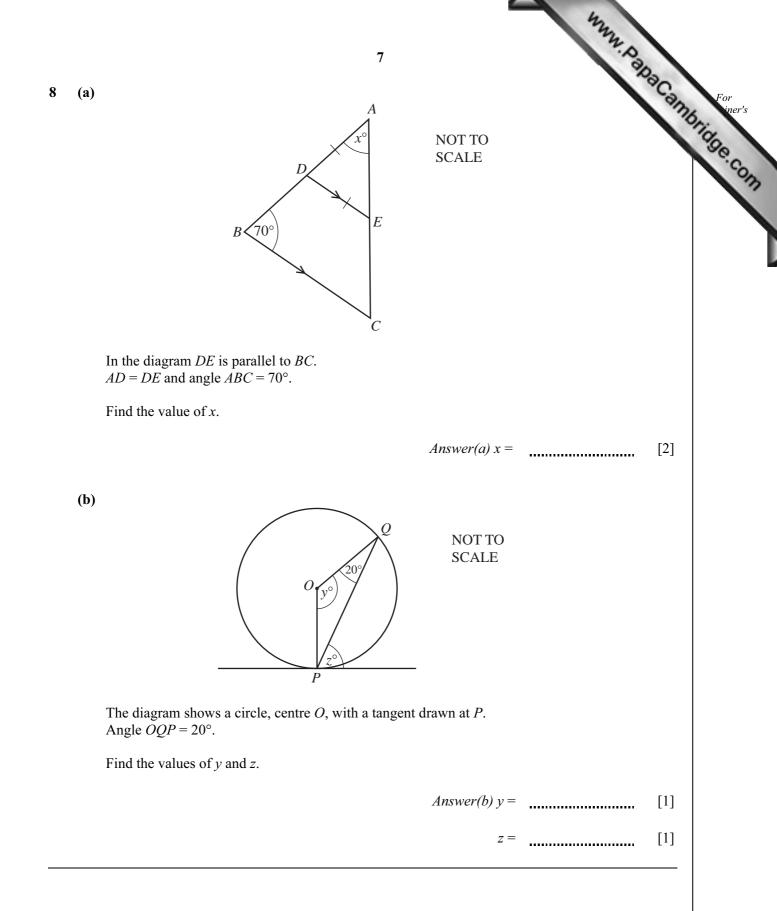
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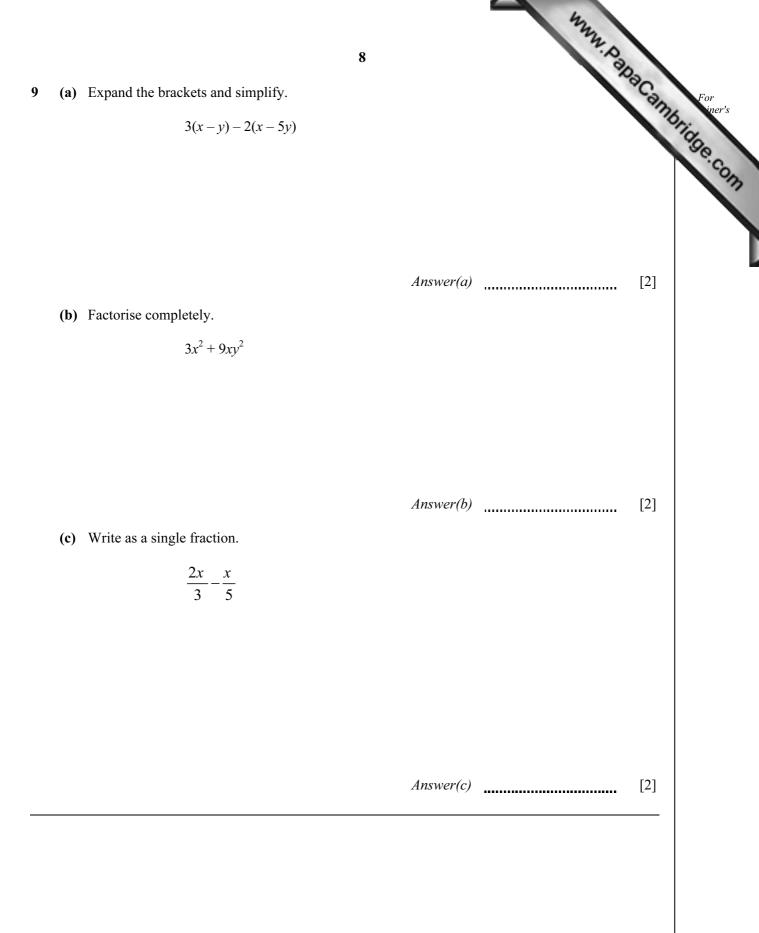
(a)	Answer <b>all</b> the qu Find the lowest common multiple of 6 and 9.	estions.	Anna Por	an
		Answer(a)		[1]
(b)	Work out $5^2 - 2^3$ .			
		Answer(b)		[2]
(a)	Samir and Josef divide \$250 in the ratio 2 : 3. Calculate how much money each receives.			
		Answer(a)	Samir \$ Josef \$	[2]
(b)	A recipe for 3 people needs 600 g of pasta. Work out how much pasta is needed for 8 people.		JUSET \$	[2]
		Answer(b)	g	[2]

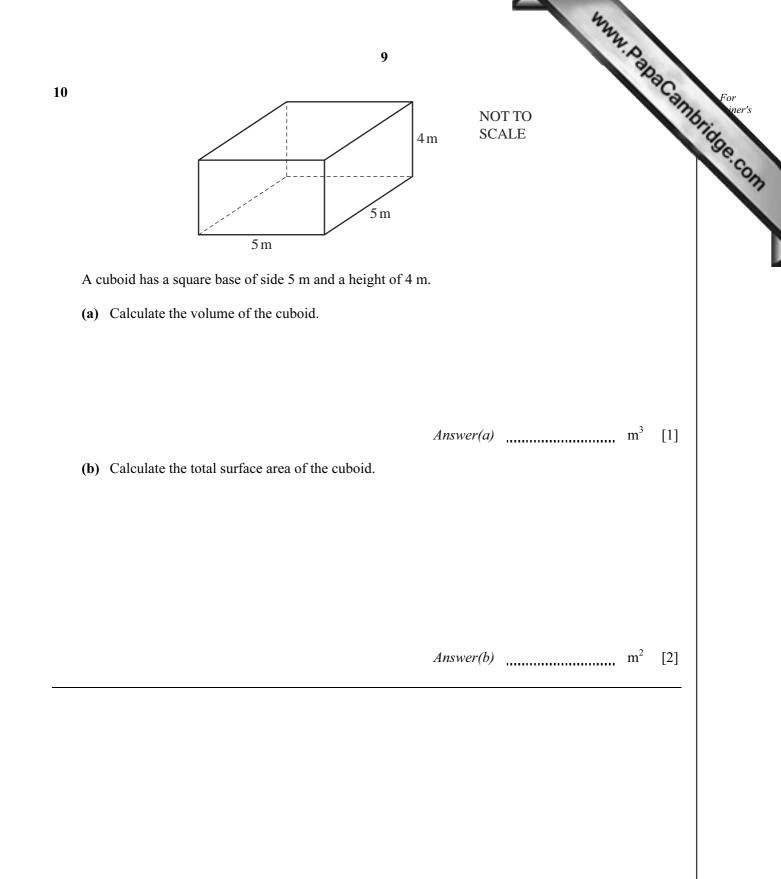


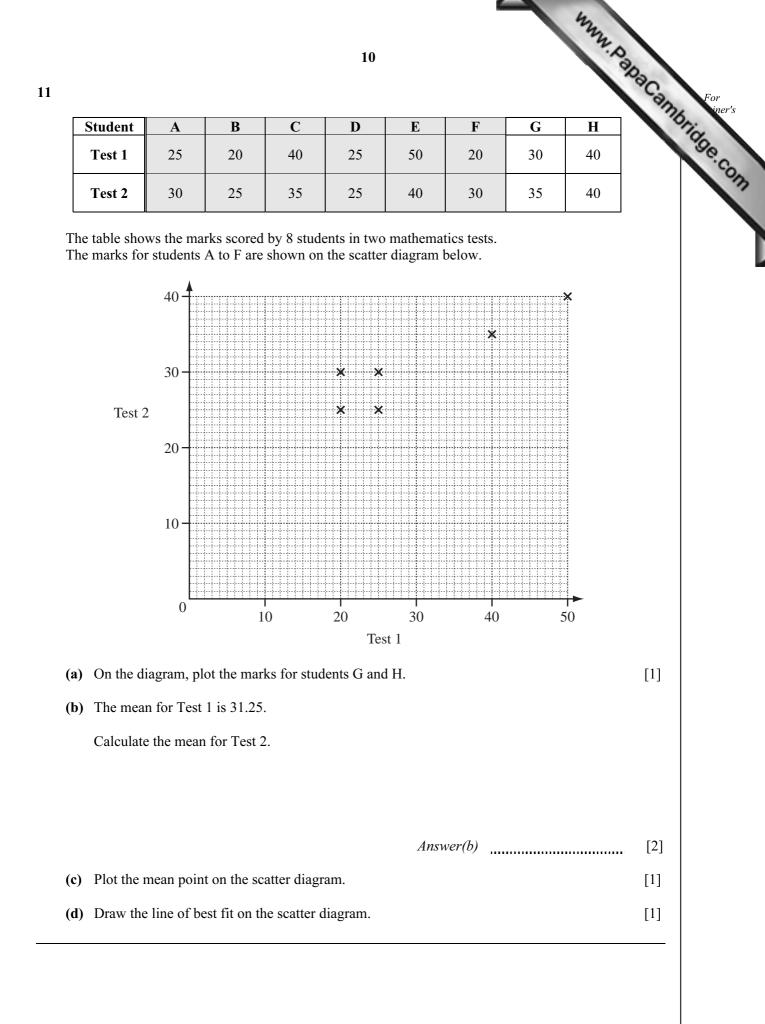














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