	UNIVERSITY OF CAMBRIDGE INTERNATIONA International General Certificate of Secondary Ed	
CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
CAMBRIDGE	INTERNATIONAL MATHEMATICS	0607/01
Paper 1 (Core	e)	For Examination from 2010
SPECIMEN P	APER	
		45 minutes

Candidates answer on the Question Paper Additional Materials: 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.

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 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 of the marks for this paper is 40.

For Examiner's Use	

This document consists of 8 printed 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 .	$V = \frac{4}{3}\pi r^3$

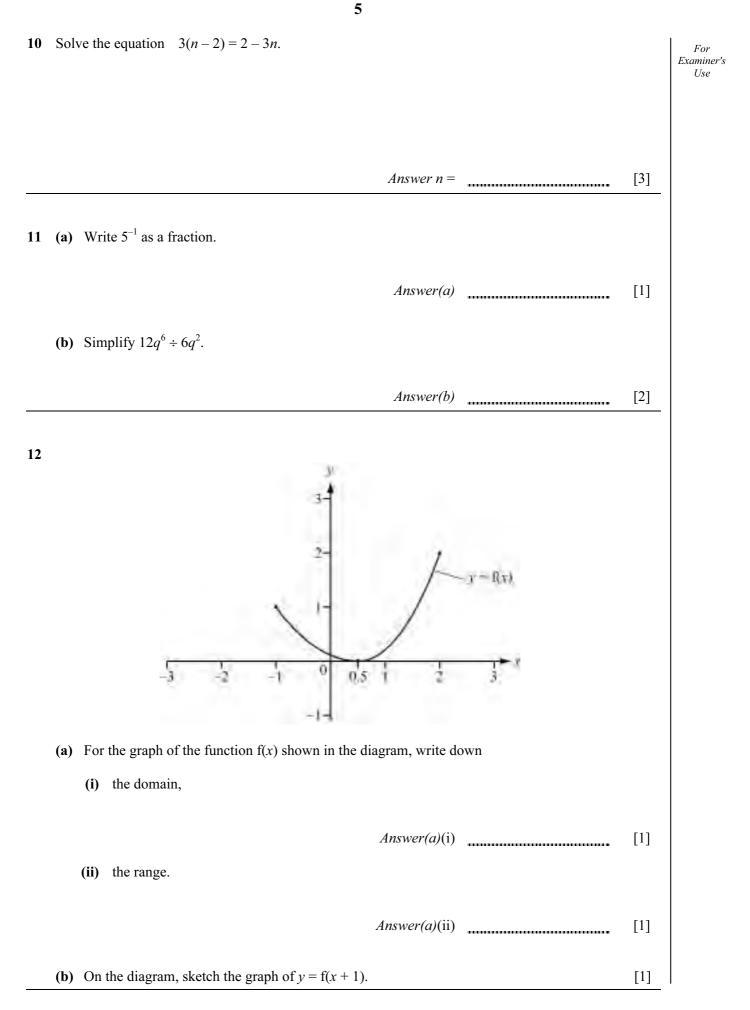
	Answer all the questions.		
1	At noon, in a ski resort, the temperature was 2 °C. At midnight it was –9 °C.	Examiner's Use	
	Write down the difference in temperature between noon and midnight.		
	Answer °C [1]		
2	Write $\frac{17}{20}$ as a percentage.		
	Answer [1]		
3	Work out $15 - 4 \times 6$.		
	Answer [1]		
4	Work out $\frac{2}{3}$ of \$75.		
	3		
	<i>Answer</i> \$ [1]		
5	Write down the value of $(0.2)^2$.		
	Answer [1]		
	Answer [1]		

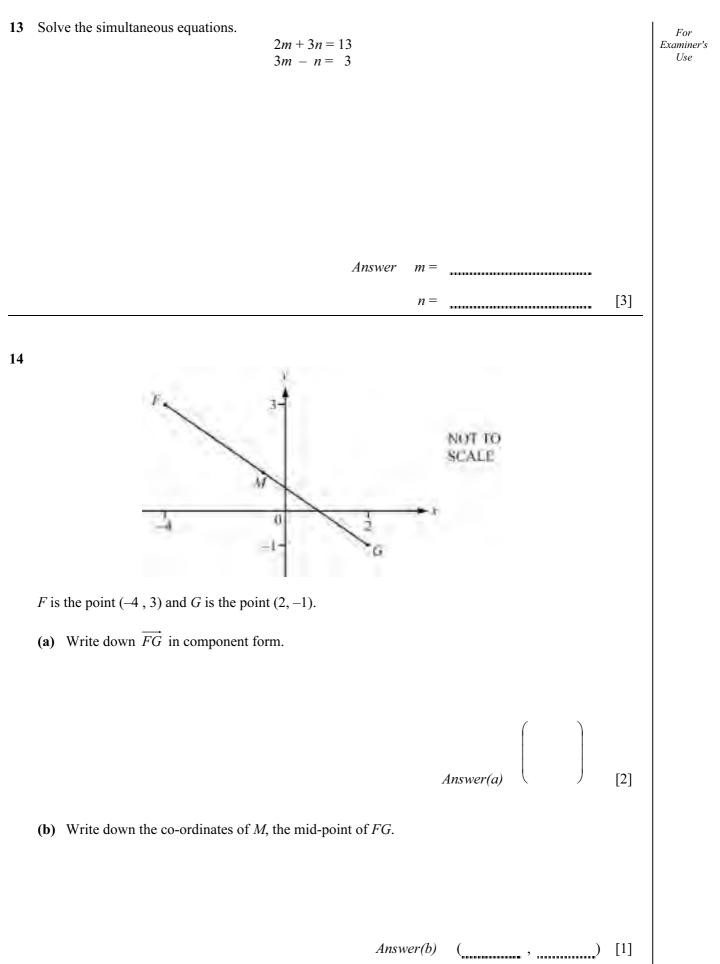
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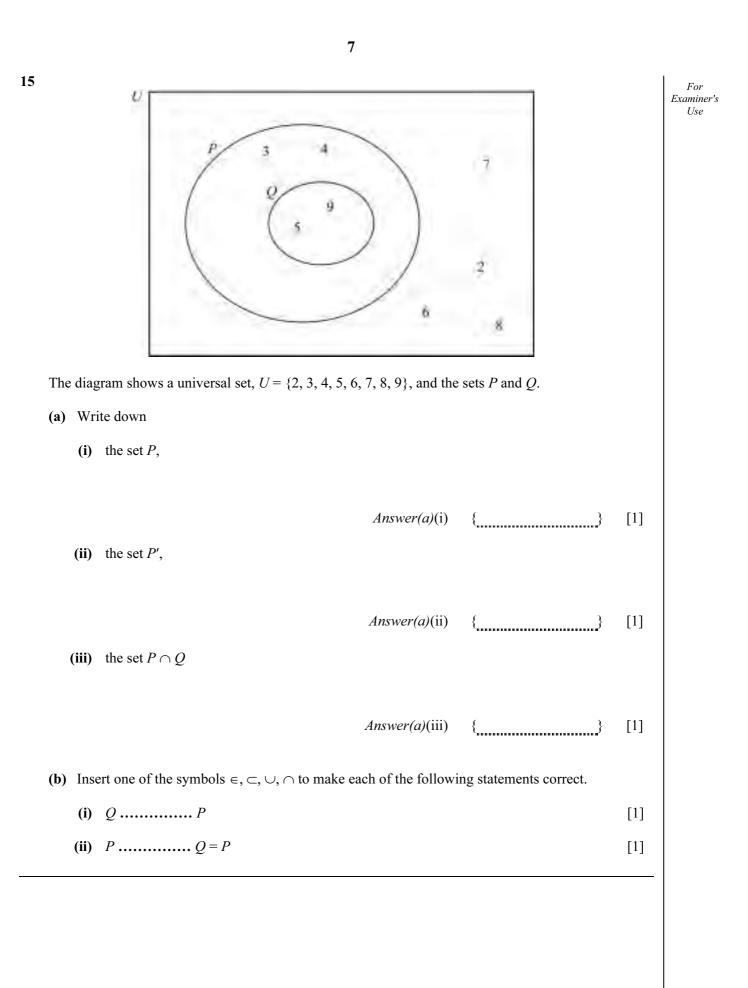
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6	$8 11 \frac{5}{6} \sqrt{3} 12$	For Examiner's Use
	From these five numbers, write down	
	(a) an irrational number,	
	$Answer(a) \qquad [1]$	
	(b) a prime number,	
	<i>Answer(b)</i> [1]	
	(c) the highest common factor of 24 and 40.	
	Answer(c) [1]	
7	Work out $\frac{2}{5} - \frac{1}{15}$, giving your answer in its lowest terms.	
	<i>Answer</i> [3]	
8	Johan walks at 3 km/h for 3 hours. He then walks another 5 kilometres in 2 hours. Calculate Johan's overall average speed.	
	Answer km/h [2]	
9	Factorise completely $15a - 3ac$.	
	Answer [2]	

4

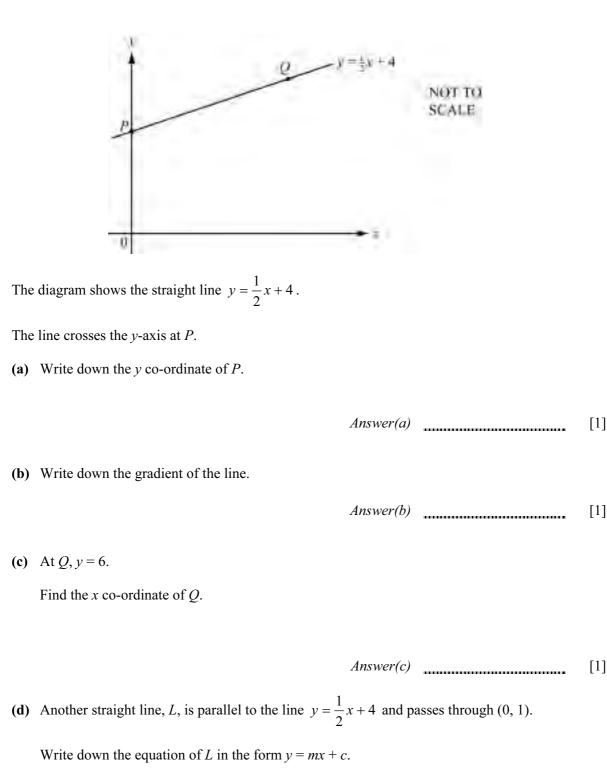






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Answer(d) [2]

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