	UNIVERSITY OF CAMBRIDGE IN International General Certificate of		hidge
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
MATHEMATIC	S	0581/	1
Paper 1 (Core)		October/November 20	9
		1 ho	ır
Candidates and	swer on the Question Paper.		
Additional Mate	erials: Electronic Calculator Geometrical Instruments	Mathematical tables (optional) Tracing paper (optional)	

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.

You may use a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

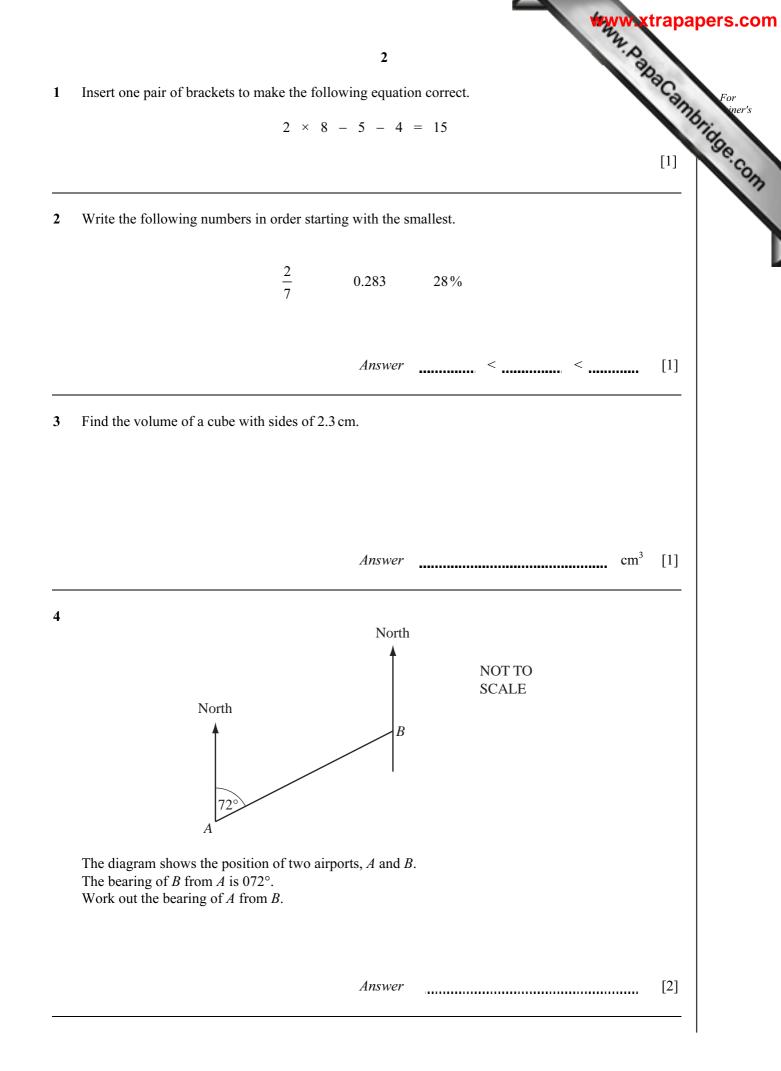
At the end of the examination, fasten all your work securely together.

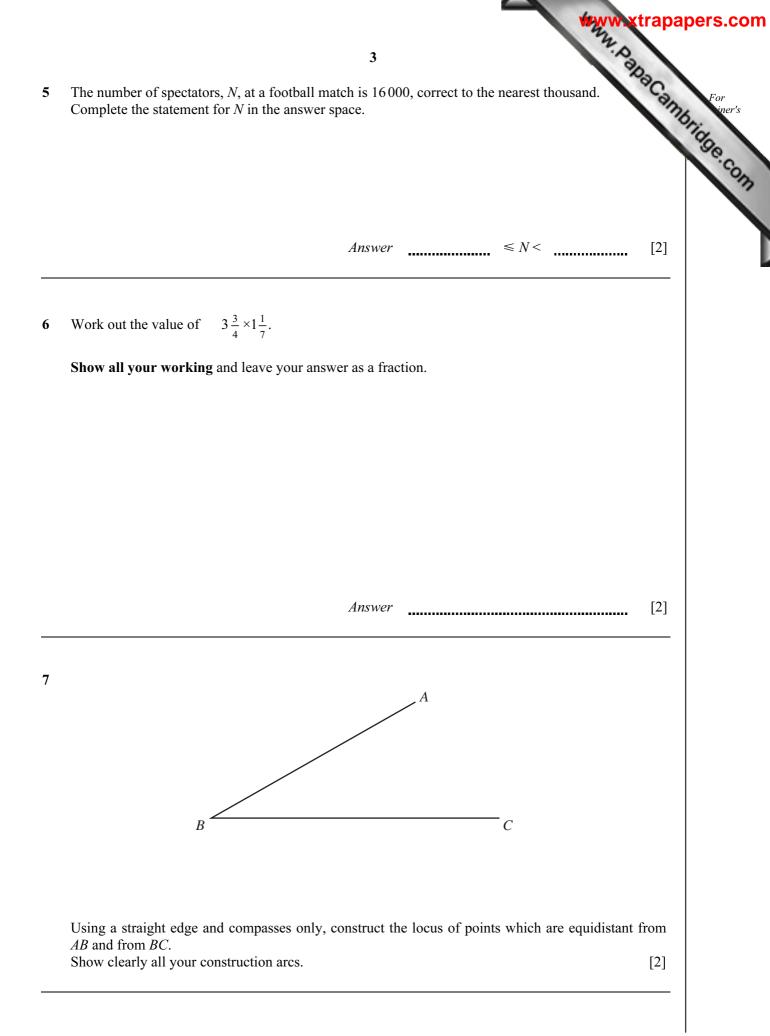
The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

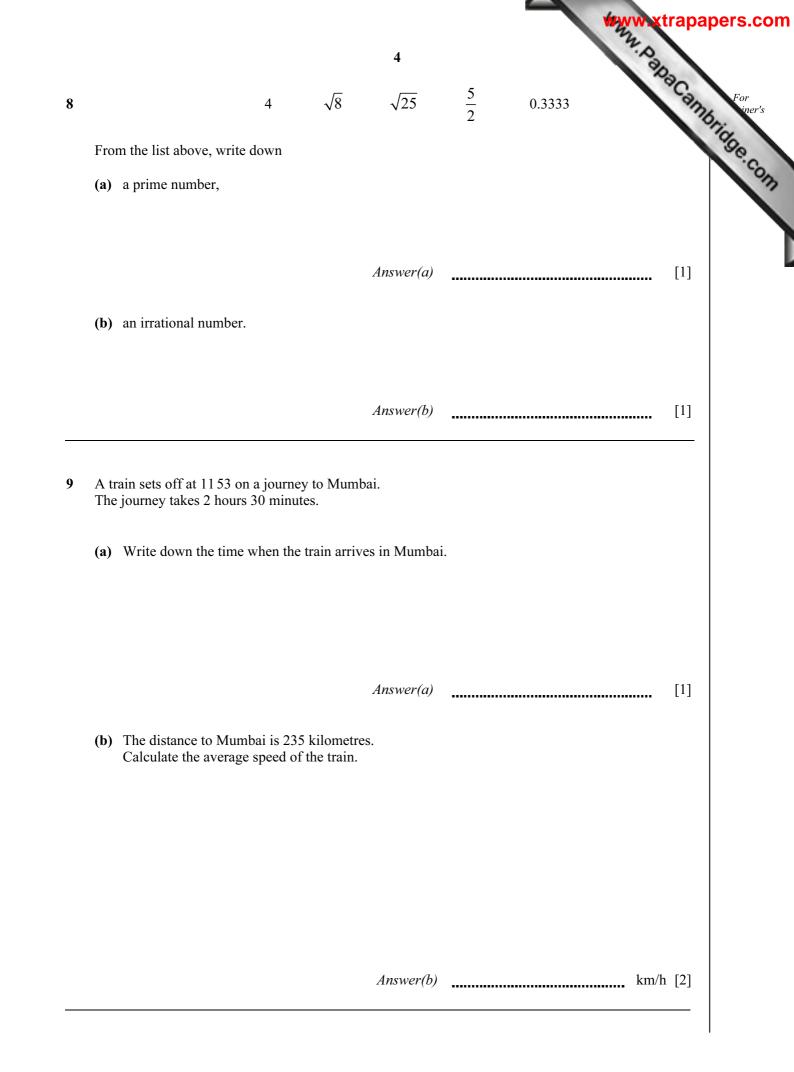
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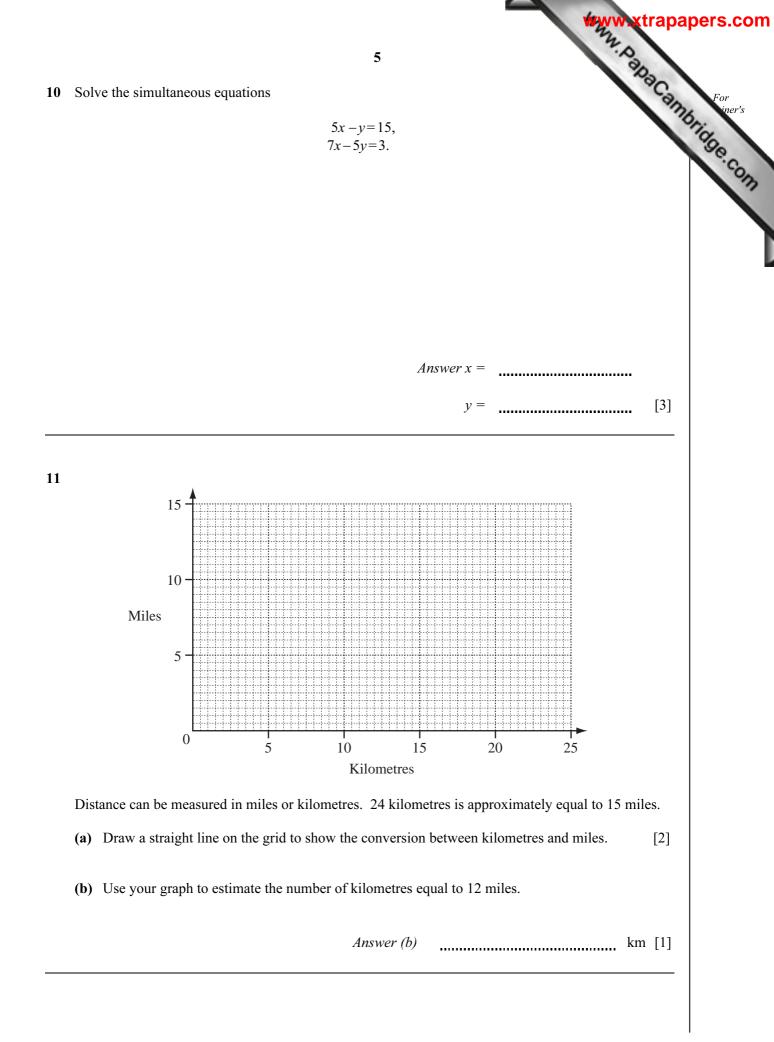
This document consists of **11** printed pages and **1** blank page.

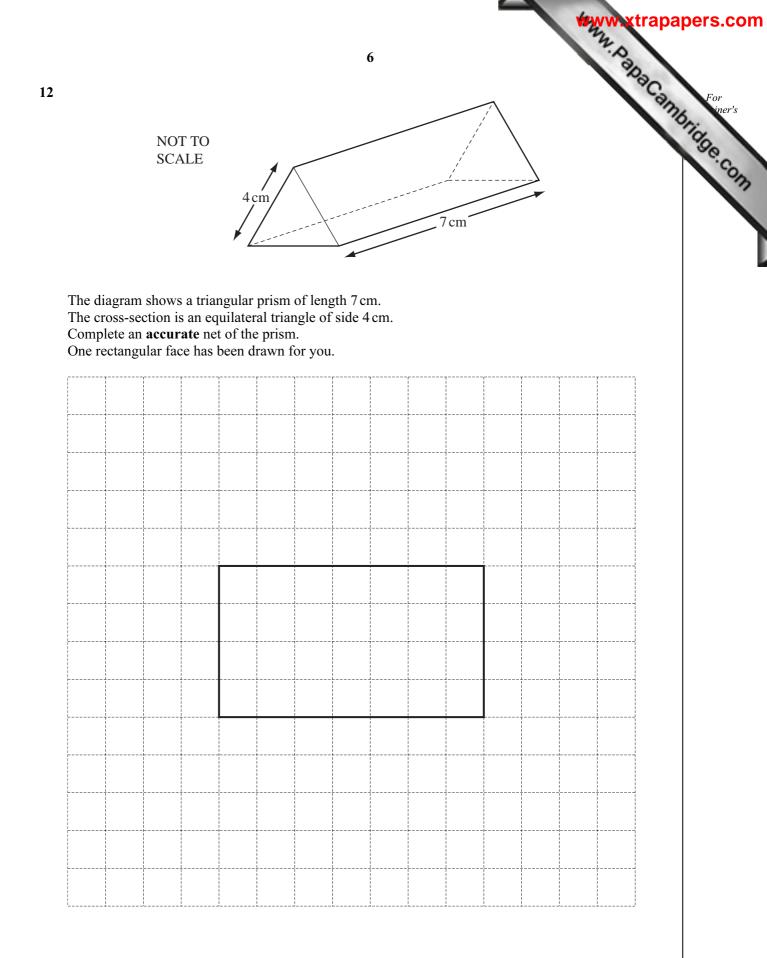




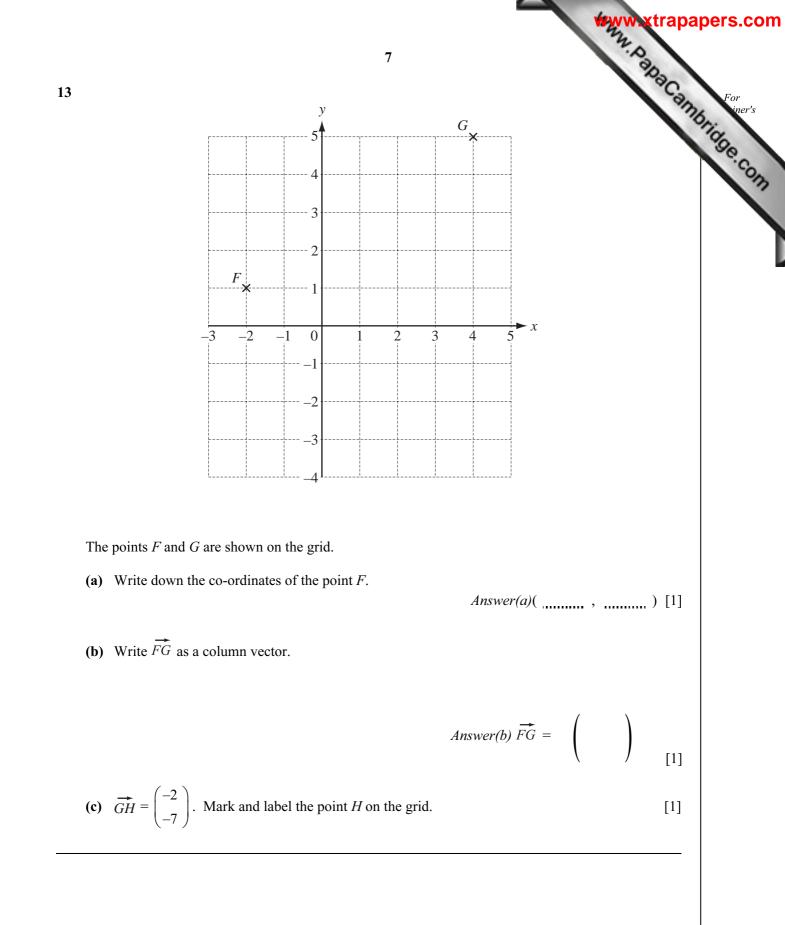


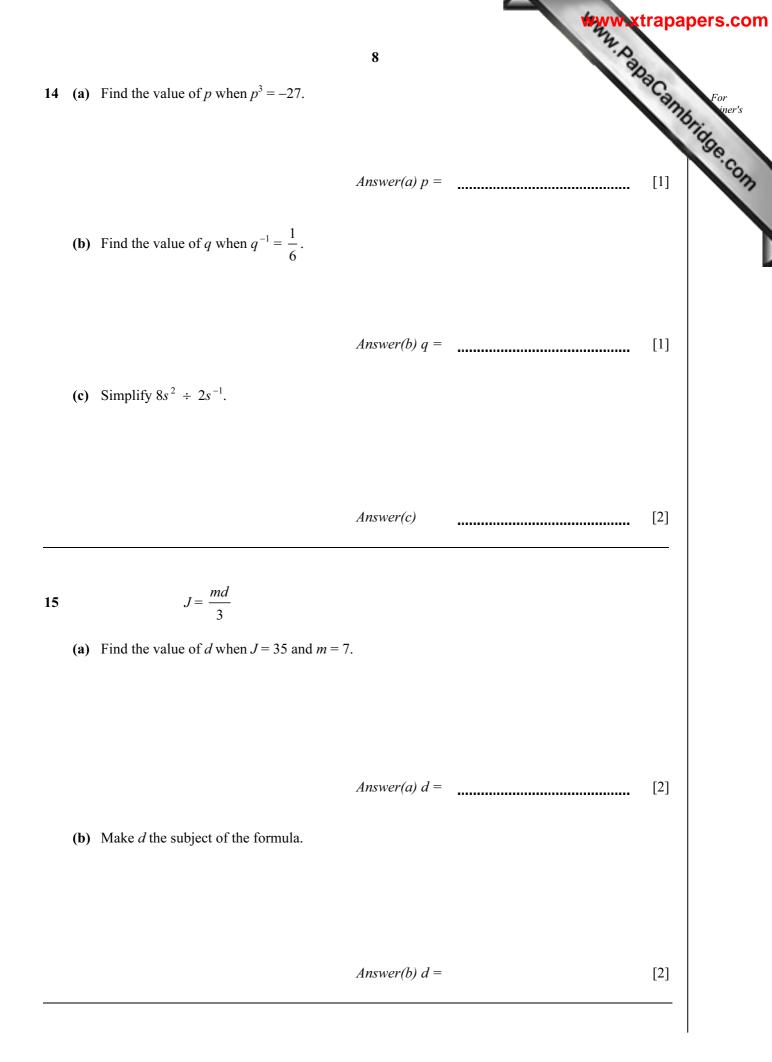






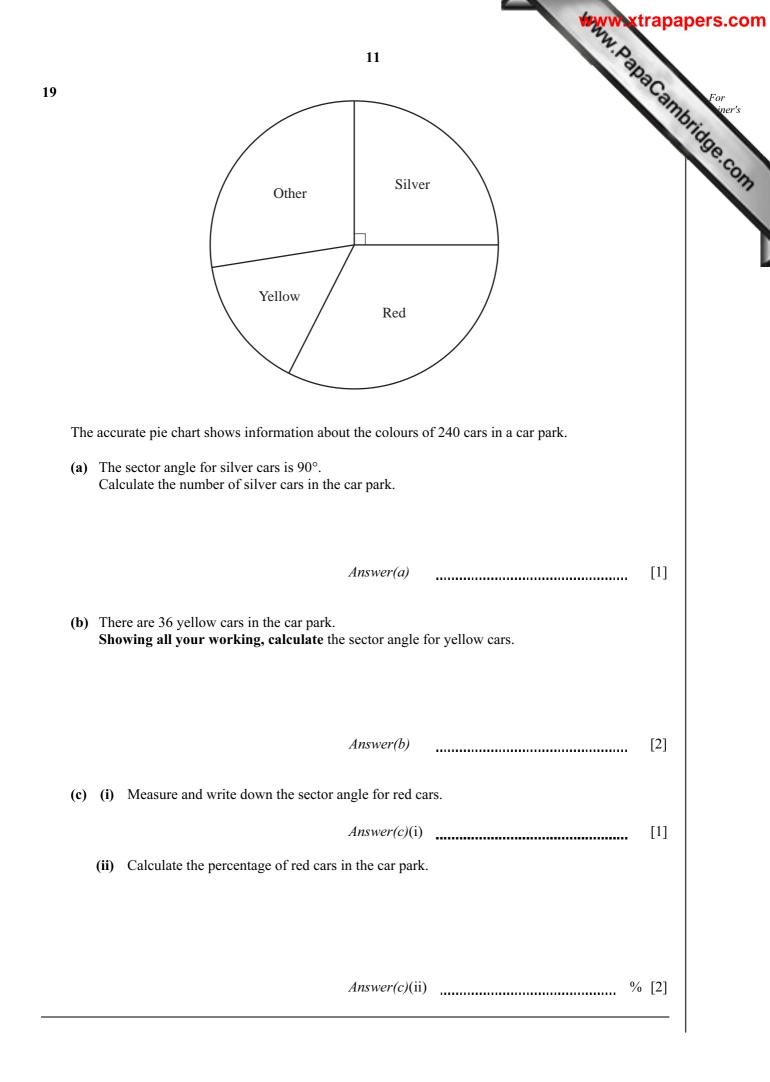
[3]





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		9	A.D.		
16	6 As the earth rotates, a point on the equator moves round at a speed of 1669.8 kilometres/hour.				
	(a)	Write down this number in standard form, correct to 3 sig	peed of 1669.8 kilometres/hour.	nbridge	
		Answer(a)		[2]	
	(b)	Change 1669.8 kilometres/hour into metres/second.			
		Answer(b)	m/s	[2]	
17	(a)	Factorise $5x^2 + 4xy$.		_	
		Answer (a)		[1]	
	(b)	Simplify completely $7(2x + y) - 3(3x - 2y)$.			
		Answer (b)		[3]	
		Answer (b)		[;	

18	10 S	For iner's
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	P Q	<i>R</i>
	The lines <i>PS</i> and <i>QT</i> intersect at <i>W</i> . <i>PQR</i> is a straight line. Angle $SPR = 38^{\circ}$ and angle $TQR = 105^{\circ}$.	
	Write down the size of the following angles. In each case give a reason for your answer.	
	(a) Angle PQW = because	[2]
	(b) Angle $PWQ =$ because	[2]
	(c) Angle <i>TWS</i> =because	[2]





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