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NUMBER NUMBER NUMBER MATHEMATICS 0581/12 Paper 1 (Core) October/November 2009 Candidates answer on the Question Paper. Additional Materials: Electronic Calculator	CANDIDATE NAME		
Paper 1 (Core) October/November 2009 1 hour Candidates answer on the Question Paper. Additional Materials: Electronic Calculator Mathematical tables (optional)	CENTRE NUMBER		
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	Candidates ans	swer on the Question Paper.	
	Additional Mate		

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.

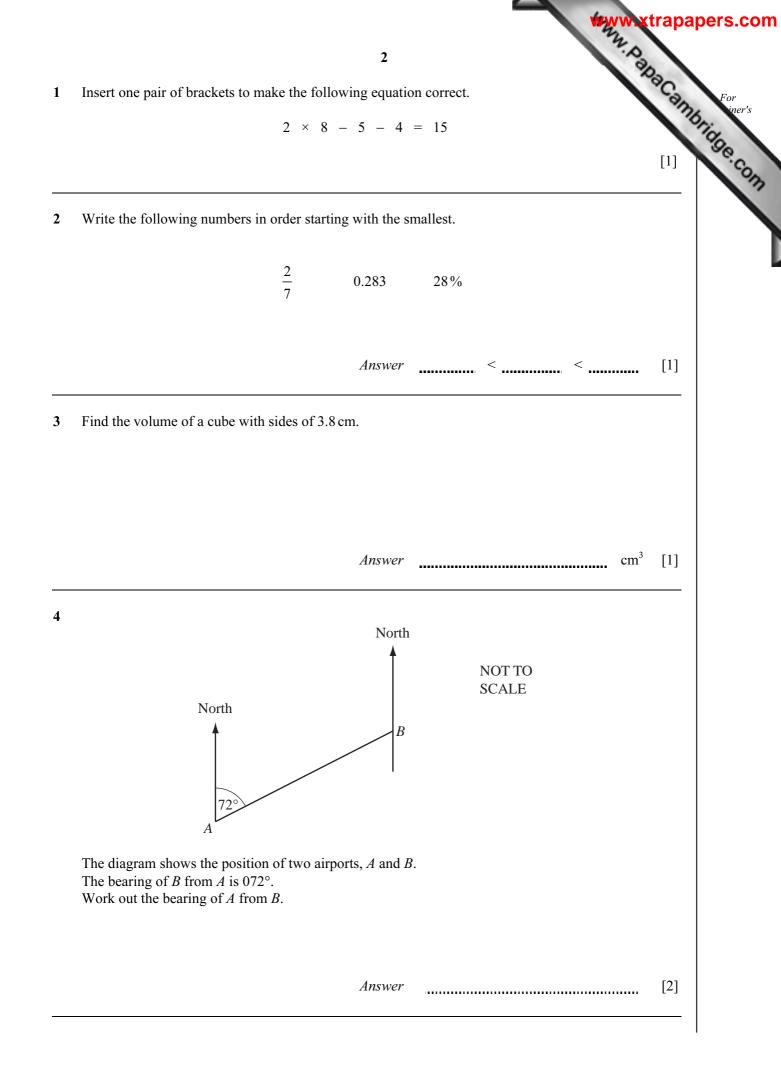
At the end of the examination, fasten all your work securely together.

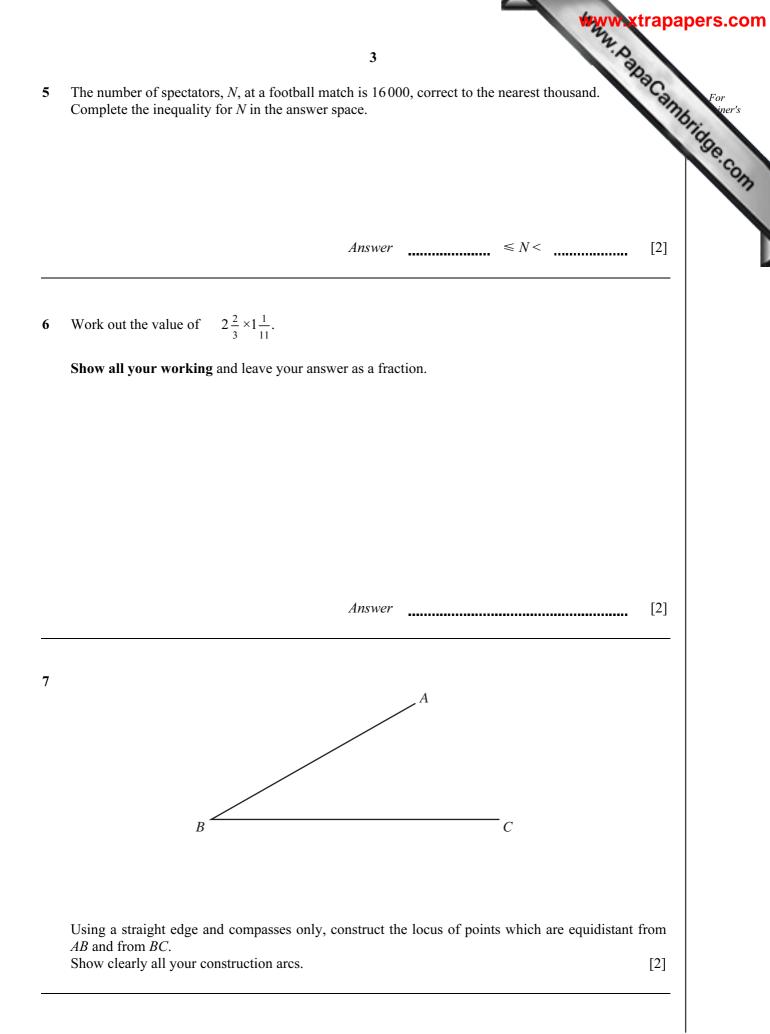
The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

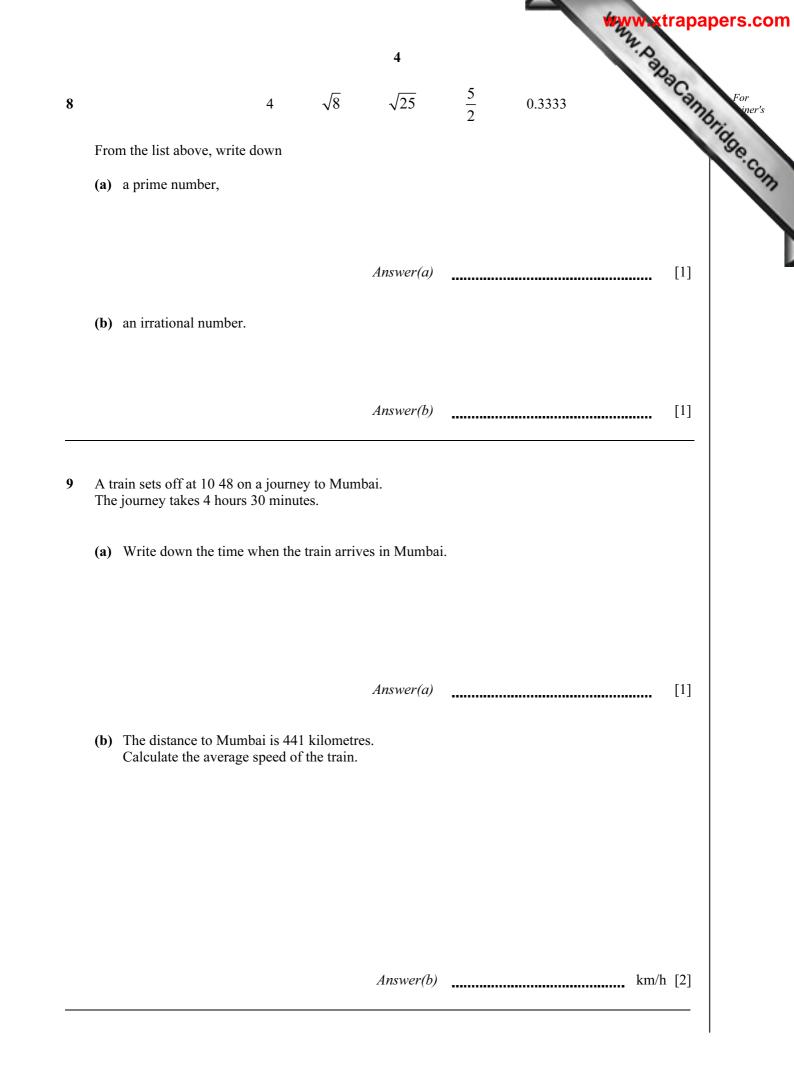
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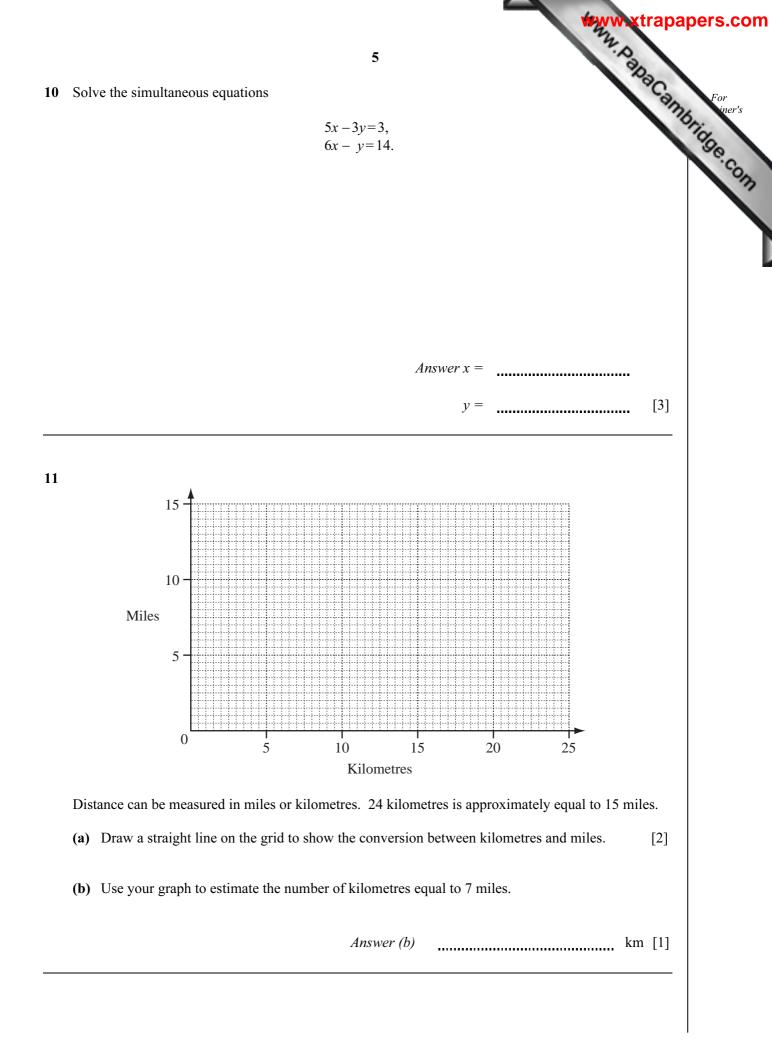
This document consists of **11** printed pages and **1** blank page.

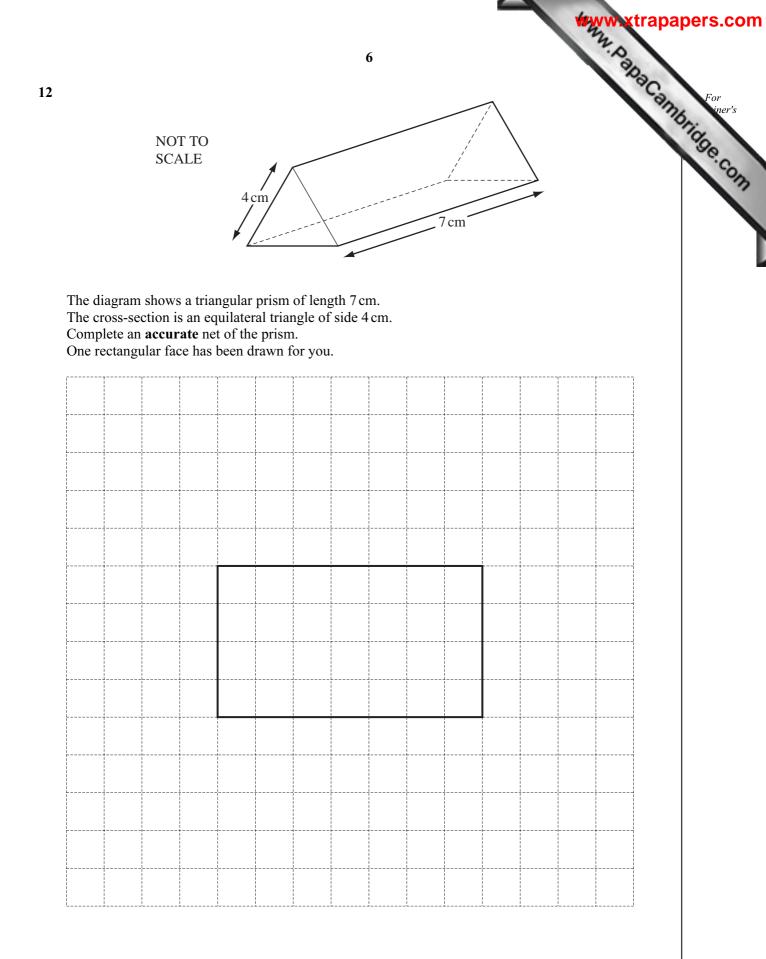




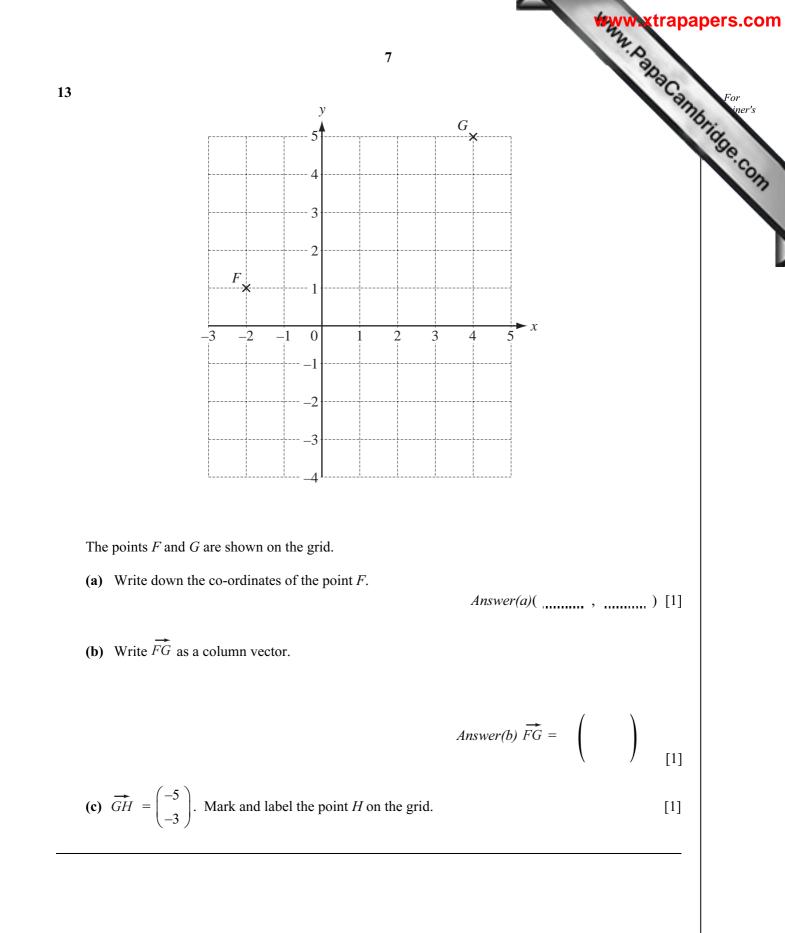


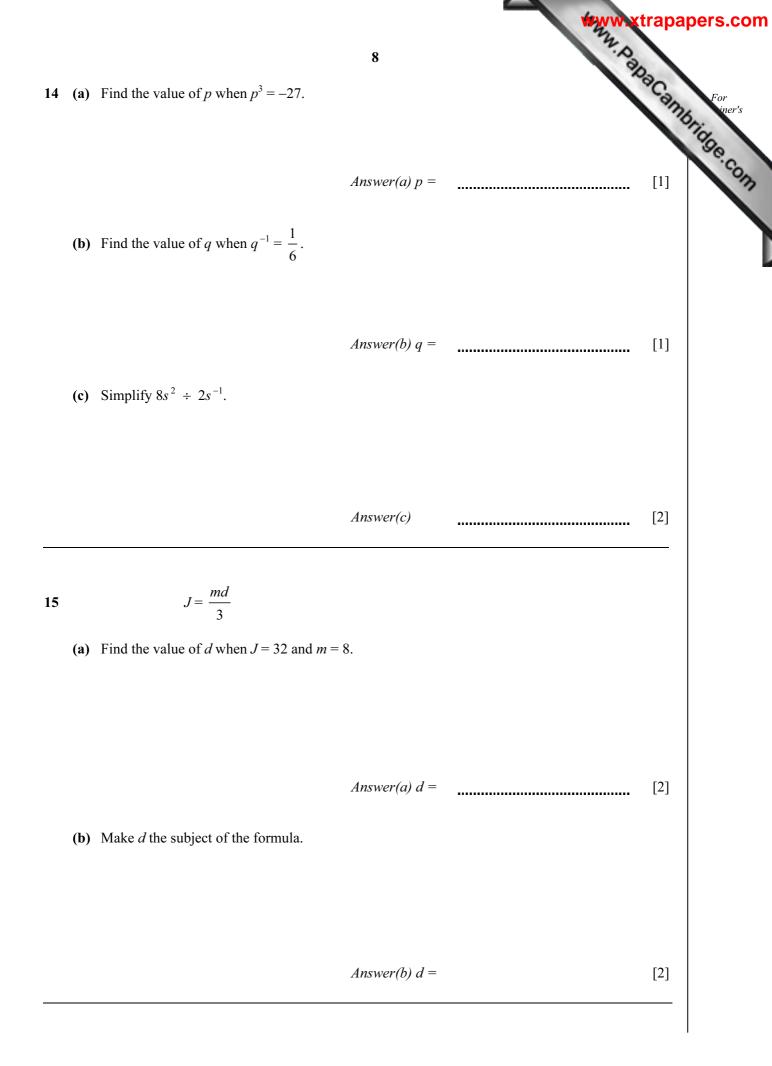






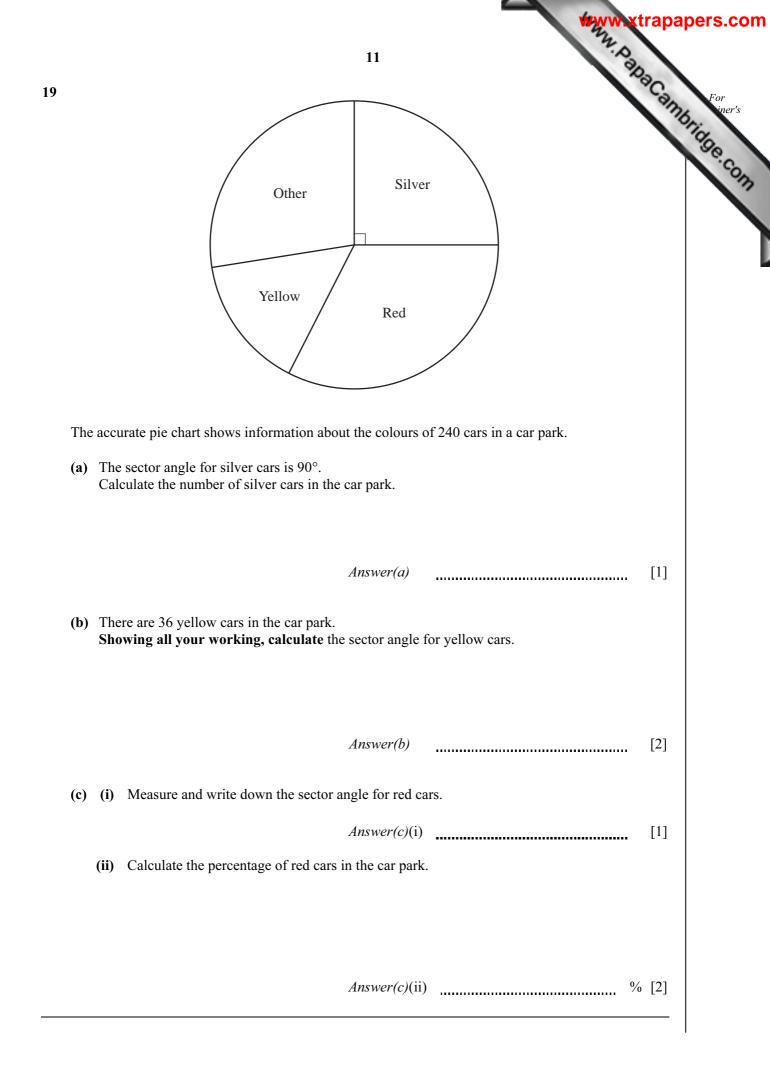
[3]





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		9	
16	As the	e earth rotates, a point on the equator moves round at a speed of 1669.8 kilometres/hour.	G. For
	(a) V	Write down this number in standard form, correct to 3 significant figures.	apapers.c
			[2]
	(b) (hange 1669.8 kilometres/hour into metres/second.	
		Answer(b) m/s	[2]
17	(a) F	actorise $3mp + 7p^2$.	
		Answer (a)	[1]
	(b) S	implify completely $8(3m+p) - 5(2m-3p)$.	
		Answer (b)	[3]

18	10	For iner's
	NOT TO SCALE	Tage.com
	P Q R	
	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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