Centre No.				Surname	Initial(s)
Candida	ite No.			Signature	



Materials required for examination Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Items included with question papers

Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature.

Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper. You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 21 questions in this question paper. The total mark for this paper is 100. There are 20 pages in this question paper. Any blank pages are indicated. You may use a calculator.

Advice to Candidates

Write your answers neatly and in good English.

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2.	The table shows information	on about the sc	cores in a game.		
		Score	Frequency		
		1	5		
		2	8		
		3	3		
		4	4		
	Work out the mean score.				
					Q
				(Total 2 marks)	
				 (Total 5 marks)	
					1

• A triangle has two equal s	ides of length $2x$ cm and one side of length	gth <i>x</i> cm.	blank
	\wedge		
	$2x \operatorname{cm}$ $2x \operatorname{cm}$	Diagram NOT accurately drawn	
The perimeter of this trian	gle is 12 cm.		
(i) Use this information t	to write down an equation in x.		
(ii) Solve your equation to	o find the value of <i>x</i> .		
		<i>x</i> =	Q3
		(Total 3 marks)	

|____

|___

							I
					(Tot	tal 2 marks)	
						%	Q4
Express 10 Give your	50 as a percent answer correc	age of 280 t to 2 significa	nt figures.				
4. The total r 160 of the	students in De	ents in Dentor enton College	are in Year 1	80			
The total r 160 of the Express 10 Give your	number of stud students in De 50 as a percent answer correc	ents in Denton enton College age of 280 t to 2 significa	n College is 2 are in Year 1 ant figures.	80			DI





















Nikos now takes another three shots.		Leav blan
(c) Calculate the probability that he will score exactly 1 goal or exactly	v 2 goals.	
		Q1
(Total 10 marks)	
18. Some cases have to be lifted by a crane.Each case has a mass of 68 kg, correct to 2 significant figures.		
(a) Write down the upper bound of the mass of a case.		
	kg	
A crane can lift safely a load of 1200 kg, correct to 2 significant figures.		
(b) Find the greatest number of cases that the crane can lift safely in on	ne load.	
	(3)	018
	(J) (Total 4 marks)	
	(10000 T mar No)	
		17









21.	A coin is biased so that the probability that it shows heads on any one throw is <i>p</i> . The coin is thrown twice.	
	The probability that the coin shows heads exactly once is $\frac{8}{25}$	
	Show that $25p^2 - 25p + 4 = 0$	
		Q
	(Total 3 marks)	
	TOTAL FOR PAPER: 100 MARKS	
	END	