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- <u>-</u>	Centre No.		S	Surname	Initial(s)	Ť.
₽	Candidate No.		Signature	Signature	I] "
		Paper Reference(s)	3П		Examiner's use only	

4400/3H		
London Examinations IGCSE	Team Leader's	s use only
Mathematics		
Paper 3H	Page Numbe	rs Blank
Higher Tier	3	
Thursday 12 May 2005 – Morning	4	
Time: 2 hours	6	
	7	
Materials required for examination Items included with question papers Ruler graduated in centimetres and Nil	8	
millimetres, protractor, compasses,	9	
Tracing paper may be used.	10	
	11	
Instructions to Candidates	12	
In the boxes above, write your centre number, candidate number, your surname, initial(s) and	- 13	
signature. The paper reference is shown at the top of this page. Check that you have the correct question pape	r. 14	
Answer ALL the questions in the spaces provided in this question paper. Show all the steps in any calculations.	15	
Information for Candidates	16	
There are 20 pages in this question paper. All blank pages are indicated.	17	
e.g. (2).	18	
You may use a calculator.	19	
Advice to Candidates Write your answers neatly and in good English.	-	
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Total Turn over

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Answer AI.J. TWENTY TWO questions. Term Write your answers in the spaces provided. You must write down all stages in your working. 1. 1. Use your calculator to work out the value of $\frac{9.5-3.7}{1.3 \times 2.4}$ Write down all the figures on your calculator display. Q1 (Total 2 marks) 2. Solve $5(2x+3)=30$ x =	Leave blank
Write your answers in the spaces provided. You must write down all stages in your working. Q1 1. Use your calculator to work out the value of 9.5-3.7 / 1.3x 2.4 Write down all the figures on your calculator display. Q1 (Total 2 marks) 2. Solve 5(2x+3)=30 x=	3. (Total 2 marks) x = Q2 (Total 3 marks) 3
You must write down all stages in your working. 01 1. Use your calculator to work out the value of $\frac{9.5-3.7}{1.3\times2.4}$ 01 (Total 2 marks) 2. Solve $5(2x+3)=30$ x =	g Q1 (Total 2 marks) x = Q2 (Total 3 marks)
1. Use your calculator to work out the value of $\frac{9.5 - 3.7}{1.3 \times 2.4}$ Write down all the figures on your calculator display.	Q1 (Total 2 marks) x =Q2 (Total 3 marks)
Write down all the figures on your calculator display. Q1	Q1 (Total 2 marks)
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(Total 2 marks) 2. Solve 5(2x+3)=30 x =	(Total 2 marks)
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5.	The probability that a person chosen at random has brown eyes is 0.45 The probability that a person chosen at random has green eyes is 0.12	Leave blank
	(a) Work out the probability that a person chosen at random has either brown eyes or green eyes.	
	(2)	
	250 people are to be chosen at random.	
	(b) Work out an estimate for the number of people who will have green eyes.	
	(2)	Q5
	(Total 4 marks)	
6.	(a) Factorise $9p + 15$	
	(1)	
	(b) Factorise $q^2 - 4q$	
	(1)	
	(c) Factorise $x^2 - 3x - 10$	
	(2)	Q6
	(Total 4 marks)	





10. The table gives information about the ages, in years, of the 80 members of a sports club.

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12. The height of a hall is 12 m. A scale model is made of the hall.		
The height of the scale model of the hall is 30 cm.		
(a) Express the scale of the model in the form 1: <i>n</i>		
	(3)	
The length of the scale model of the hall is 95 cm.		
(b) Work out the real length of the hall. Give your answer in metres.		
	m (3)	Q
	(Total 6 marks)	
13. The size of each exterior angle of a regular polygon is 18°.		
(a) Work out how many sides the polygon has.		
(b) Work out the sum of the interior angles of the polygon	(2)	
() where a summer of the medice of the PolyBour		
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	(2)	Q
		1

19. The diagram shows six counters.	blank
B A N A N A	
Each counter has a letter on it.	
Bishen puts the six counters into a bag. He takes a counter at random from the bag. He records the letter which is on the counter and replaces the counter in the bag. He then takes a second counter at random and records the letter which is on the court	nter.
(a) Calculate the probability that the first letter will be A and the second letter will b	e N.
	(2)
(b) Calculate the probability that both letters will be the same.	
(Total 6 ma	(4) Q19

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	(b) By drawing a suitable straight line on the grid, find estimates of the solutions of the equation $x^3 - 6x - 2 = 0$. Give your answers correct to 1 decimal place.	Leave blank	ţ
	(3)	Q20	
	(Total 4 marks)		
		17	۲

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