Centre	Surname In	iitial(s)	
Candidate No.	Signature		
Paper Reference(s) 4400/3H		Examiner's use	only
Londo	n Examinations IGCSI	Team Leader's us	se only
Mather	natics		
Paper 3F	I		Leave Blank
*		3	
0	er Tier	4	
Thursday	12 May 2005 – Morning	5	
Time: 2 h	ours	6	
		7	
Materials requir Ruler graduated i	ed for examination n centimetres andItems included with question pape Nil	ers 8	
millimetres, protr	actor, compasses,	9	
pen, HB pencil, eraser, calculator. Tracing paper may be used.		10	
		11	
nstructions to Candidates		12	
In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature.		13	
	o of this page. Check that you have the correct question	n paper. 14	
Show all the steps in any calculations.	es provided in uns question paper.	15	
information for Candidates		16	
	her. All blank pages are indicated.	ckets: 17	
e.g. (2). You may use a calculator.		18	
Advice to Candidates		19	
Write your answers neatly and in good	English.		
his publication may be reproduced only in accordance with dexcel Limited copyright policy.		Total Turn	



Answer ALL TWENTY TWO questions.	Leave blank
Write your answers in the spaces provided.	
You must write down all stages in your working.	
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.	
	01
· (Total)	2 marks)
(Total 2	
2. Solve $5(2x+3) = 30$	
	02
	Q2 3 marks)
	Q2 3 marks)



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)	
		5

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8.	In a sale at <i>Bargain Buys</i> , all the normal prices are reduced by 15%. The normal price of a printer is $\pounds 240$	blan
	(a) Work out the sale price of the printer.	
	£	
	(3) In the same sale, the sale price of a laptop computer is £663	
	(b) Work out the normal price of the laptop computer.	
	£	
	(3) (Total 6 marks)	Q8
9.	(a) Solve the inequality $2x - 3 < 5$	
	(2)	
	(b) <i>n</i> is a positive integer.	
	Write down all the values of <i>n</i> which satisfy the inequality $2n - 3 < 5$	
	(2)	Q9
	(Total 4 marks)	

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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.		bla
(a) Express the scale of the model in the form $1:n$		
	(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) (Total 6 marks)	Q12
13. The size of each exterior angle of a regular polygon is 18°.		
(a) Work out how many sides the polygon has.		
	(2)	
(b) Work out the sum of the interior angles of the polygon.		
	ο	
	(2)	Q1.

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19. The diagram shows six counters.	Leave blank
$(\mathbf{P}) (\mathbf{A}) (\mathbf{N}) (\mathbf{A}) (\mathbf{N}) (\mathbf{A})$	
$(\mathbf{B}) (\mathbf{A}) (\mathbf{N}) (\mathbf{A}) (\mathbf{N}) (\mathbf{A})$	
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 counter.	
(a) Calculate the probability that the first letter will be A and the second letter will be N.	
(2)	
(b) Calculate the probability that both letters will be the same.	
(4)	Q19
(Total 6 marks)	
	1

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4 # 7	 (b) By drawing a suitable straight line on the grid, find estimates of the solutions of the equation x³-6x-2=0. Give your answers correct to 1 decimal place. 	Leave blank	
	(3)	Q20	
	(Total 4 marks)		-
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	$\begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	17	
	N 2 2 1 2 7 A 0 1 7 2 0 —	urn ovei	



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