Centre No.			Surname	Initial(s)
Candidate No			Signature	

Paper Reference(s)	Examir	ner's use	only
4400/3H			
London Examinations IGCSE	Team Le	ader's u	se only
Mathamatias			
Iviatiematics	Г		
Paper 3H	ז	Page Number	Leave Blank
<b>Higher Tier</b>	-	3	
Thursday 17 May 2007 – Morning	-	5	
Time: 2 hours		6	
		7	
Materials required for examinationItems included with question papersRuler graduated in centimetres andNil		8	
millimetres, protractor, compasses, pen, HB pencil, eraser, calculator,		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	
Check that you have the correct question paper.		14	
Answer ALL the questions 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	n 📘	15	
<b>NO credit.</b> If you need more space to complete your answer to any question, use additional answer sheets.		16	
		17	
Information for Candidates The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2).	_	18	
There are 19 questions in this question paper. The total mark for this paper is 100.		19	
You may use a calculator.		20	
Advice to Candidates			
Write your answers neatly and in good English.	- [		
		Total	
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Number of sweets	Frequency		
46	3		
47	6		
48	3		
49	5		
50	2		
51	1		
			Q
			Q
			Q
		 (Total 3 marks)	Q
		(Total 3 marks)	Q
		(Total 3 marks)	Q
		(Total 3 marks)	Q
		(Total 3 marks)	Q
		(Total 3 marks)	Q



N 2 5 7 9 9 A 0 5 2 0



7. At	unnel is 38.5 km long.	Leav
(a)	A train travels the 38.5 km in 21 minutes.	
	Work out the average speed of the train. Give your answer in km/h.	
(b)		
		Q7

|\_\_\_\_

\_\_\_\_

8.	(a)	Shri invested 4500 dollars. After one year, he received 270 dollars interest. Work out 270 as a percentage of 4500	
		9⁄0	
		(2)	
	(b)	Kareena invested an amount of money at an interest rate of 4.5% per year. After one year, she received 117 dollars interest. Work out the amount of money Kareena invested.	
		dollars (2)	
	(c)	Ravi invested an amount of money at an interest rate of 4% per year. At the end of one year, interest was added to his account and the total amount in his account was then 3328 dollars. Work out the amount of money Ravi invested.	
		dollars	
		(3)	Q
		(Total 7 marks)	

## N 2 5 7 9 9 A 0 8 2 0



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<b>10.</b> Here are five shapes.	Lea   bla
Four of the shapes are squares and one of the shapes is a circle. One square is black. Three squares are white. The circle is black. The five shapes are put in a bag.	
<ul><li>(a) Jasmine takes a shape at random from the bag 150 times.</li><li>She replaces the shape each time.</li></ul>	
Work out an estimate for the number of times she will take a white square.	
(3)	
<ul><li>(b) Alec takes a shape at random from the bag and does <b>not</b> replace it.</li><li>Bashir then takes a shape at random from the bag.</li></ul>	
Work out the probability that	
(i) they both take a square,	
(ii) they take shapes of the same colour.	
(5)	Q1(





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## 12. The grouped frequency table gives information about the weights of 60 cows.

Frequency
10
16
15
9
6
4

(a) Complete the cumulative frequency table.

Weight (w kg)	Cumulative frequency
$100 < w \leqslant 200$	
$100 < w \leqslant 300$	
$100 < w \leqslant 400$	
$100 < w \leqslant 500$	
$100 < w \leqslant 600$	
$100 < w \leqslant 700$	

(1)







	Make r the subject of the formula $A = \pi r^2$ , where r is positive.	blan
	5 7 1	
	$r = \dots $	
The a	rea of a circle is 14 cm <sup>2</sup> , correct to 2 significant figures.	
(b) (i	i) Work out the lower bound for the radius of the circle. Write down all the figures on your calculator display.	
	cm	
(i	ii) Give the radius of the circle to an appropriate degree of accuracy.	
	You must show working to explain how you obtained your answer.	
	cm (4)	014
	cm (4) (Total 6 marks)	Q14
	cm (4) (Total 6 marks)	Q14
		Q14
		Q14
	cm (4) (Total 6 marks)	Q14
		Q14
		Q14

|\_\_\_\_

|\_\_\_

Turn over

N 2 5 7 9 9 A 0 1 5 2 0





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17. A curve has equation $y = x^2 + \frac{16}{x}$	
The curve has one turning point.	
Find $\frac{dy}{dx}$ and use your answer to find the coordinates of this turning point.	
	Q17
(Total 4 mar	ks)
10	





N 2 5 7 9 9 A 0 2 0 2 0