Centre No.				Surname	Initial(s)
Candidate	e No.			Signature	

Paper Reference(s)	Exam	iner's use	e only
4400/1F			
London Examinations IGCSE	Team L	.eader's u	se only
Mathamatias			
Iviathematics			
Paper 1F		Page Number	Leave Blank
Foundation Tier		3	
Thursday 17 May 2007 – 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, 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 signature		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	
NO credit. If you need more space to complete your answer to any question, use additional answer sheets.		16	
		17	
The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2)	<u> </u>	18	
There are 19 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.			
		Total	
This publication may be reproduced only in accordance with Edexcel Limited copyright policy. ©2007 Edexcel Limited.		Turn	over







advancing learning, changing lives



Answer ALL NINETEEN questions		blan
Answer ALL MINE I EEN questions.		
Write your answers in the spaces provided.		
You must write down all stages in your working.		
1. (a) (i) Shade 40% of this shape.		
(ii) When 40% of the shape is shaded, what percentage is unshaded?		
	%	
	(2)	
(b) Write 40% as a decimal.		
	(1)	
(c) Write 40% as a fraction.		
Give your fraction in its simplest form.		
	(2)	Q1
(Total 5 m	narks)	

|____

|___

Turn over





Turn over

	1	7	13	19	25	
(a)	Write down the	next term in t	he sequence.			
						(1)
(b)	Explain how you	u worked out	your answer.			(-)
						(1)
(c)	Find the 11th ter	m of the sequ	ience.			(1)
						(1)
(d)	The 50th term of Work out the 49	f the sequence th term of the	e is 295 sequence.			
			1			(4)
Tan	nsin savs. "Anv ty	wo terms of th	nis sequence a	dd up to an ev	en number."	(1)
(e)	Explain why Tar	nsin is right.	nis sequence u	uu up to un ev		
						(1)
					(Tota	l 5 marks)

Here are 9 flags.			blan
Α	В	С	
	F		
D	E	F	
G	H		
(a) Write down the lette	r of the flag which has		
(i) exactly one line	of symmetry		
(ii) rotational symm	etry of order 4		
(iii) 2 lines of symm	etry and rotational symmetry of orc	der 2	
(iv) no lines of symr	netry and rotational symmetry of or	rder 2	
(iv) no lines of symr	netry and rotational symmetry of or	rder 2 (4)	
(iv) no lines of symmetry(b) Write down the letter	netry and rotational symmetry of or r of the flag which has a rhombus o	rder 2 	
(iv) no lines of symmetry(b) Write down the letter	netry and rotational symmetry of or r of the flag which has a rhombus o	rder 2 (4) on it. (1)	Q5

Number of peopl (million	e 900 100 100 100 100 100 100 100
(a) Writ	e down the number of people who speak Hindi.
	million (1)
(b) Writ	e down the number of people who speak Mandarin Chinese.
	million (1)
(c) Whi	ch language is spoken by 190 million people?
	(1)
125 milli	on people speak Japanese.
(d) Drav	v a bar on the bar chart to show this information. (1)
(e) Find spea Give	the ratio of the number of people who speak Hindi to the number of people who k Japanese. your ratio in its simplest form.
1	



Leave blank

	City	Time difference from London (hours)	
	Cairo	+2	
	Montreal	-5	_
	Bangkok	+7	_
	Rio de Janeiro	-3	
	Los Angeles	-8	
	Mexico City		
(i) Bangkok,			
 (i) Bangkok, (ii) Los Ange b) The time in M Complete the a) Write down the 	les. lexico City is 2 hours al table to show the time of	head of the time in Los difference of Mexico C	(2) Angeles. ity from London. (1)
 (i) Bangkok, (ii) Los Ange (b) The time in M Complete the (c) Write down the 	les. lexico City is 2 hours al table to show the time of the name of the city in w	head of the time in Los difference of Mexico C hich the time is 10 hou	(2) Angeles. ity from London. (1) rs behind Bangkok.
 (i) Bangkok, (ii) Los Ange (ii) The time in M Complete the (c) Write down the 	les. lexico City is 2 hours al table to show the time of the name of the city in w	head of the time in Los difference of Mexico C hich the time is 10 hou	(2) Angeles. ity from London. (1) rs behind Bangkok. (1)
 (i) Bangkok, (ii) Los Ange (b) The time in M Complete the (c) Write down the (d) Work out the formula to the fo	les. Iexico City is 2 hours al table to show the time of the name of the city in w	head of the time in Los difference of Mexico C hich the time is 10 hou	(2) Angeles. ity from London. (1) rs behind Bangkok. (1)
 (i) Bangkok, (ii) Los Ange (b) The time in M Complete the (c) Write down the (d) Work out the f (i) Cairo and 	les. Iexico City is 2 hours al table to show the time of the name of the city in w time difference betweer Montreal,	head of the time in Los difference of Mexico C hich the time is 10 hou	(2) Angeles. ity from London. (1) rs behind Bangkok. (1)
 (i) Bangkok, (ii) Los Ange (ii) Los Ange (i) The time in M Complete the (c) Write down the (d) Work out the formation (i) Cairo and 	les. Iexico City is 2 hours al table to show the time of the name of the city in w time difference betweer Montreal,	head of the time in Los difference of Mexico C hich the time is 10 hou	(2) Angeles. ity from London. (1) rs behind Bangkok. (1) (1)

9. (a) Find the value of $4 \times (8 - 3)$		blank
	(1)	
(b) Put brackets in the expression below so that the answer is 19		
$7 + 4 \times 5 - 2$		
	(1)	
(c) Find 3.8^3		
(d) Find $\sqrt{6.76}$	(1)	
(d) Find $\sqrt{6.76}$		
	(1)	Q9
	(Total 4 marks)	

|____

1

Turn over



12. Here are five shapes.		Leav blan
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. Alec takes at random a shape from the bag.		
(a) Find the probability that he will take the black square.		
	(1)	
(b) Find the probability that he will take a white square.		
	(2)	
Jasmine takes a shape at random from the bag 150 times. She replaces the shape each time.		
(c) Work out an estimate for the number of times she will take a white square.		
	(2)	012
	narks)	
(Total 5 n		

|____

13. A basketball court is a rectangle 28 m long and 15 m wide.		b
(a) Work out the area of the rectangle.		
	m ²	
(b) In the space below make an accurate scale drawing of the rectangle	(2)	
Use a scale of 1 cm to 5 m.		
	(2)	P
(Total 4 ma	arks)	
(Total 4 ma 14. (a) Work out the value of $x^2 - 5x$ when $x = -3$	arks)	
(Total 4 ma 14. (a) Work out the value of $x^2 - 5x$ when $x = -3$	arks)	
(Total 4 ma 14. (a) Work out the value of $x^2 - 5x$ when $x = -3$	arks)	
14. (a) Work out the value of $x^2 - 5x$ when $x = -3$	arks) 	
14. (a) Work out the value of $x^2 - 5x$ when $x = -3$ (b) Factorise $x^2 - 5x$	urks) 	
14. (a) Work out the value of $x^2 - 5x$ when $x = -3$ (b) Factorise $x^2 - 5x$	<u>urks)</u> (2)	
(Total 4 ma 14. (a) Work out the value of $x^2 - 5x$ when $x = -3$ (b) Factorise $x^2 - 5x$	<u>arks)</u> (2)	

	Number of sweets	Frequency		
	46	3	—	
	47	6		
	48	3		
	49	5		
	50	2		
	51	1		
(b) Work out the s(c) Work out the s	range of the number of swee	ets. ne 20 packets.	(1)	
			(3) (Total 6 marks)	Q15





19. At	unnel is 38.5 km long.	
(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.	
	km/h (3)	
(b)	To make the tunnel, a cylindrical hole 38.5 km long was drilled. The radius of the cylindrical hole was 4.19 m.	
	Work out the volume of earth, in m ³ , which was removed to make the hole. Give your answer correct to 3 significant figures.	
		Q
	(Total 6 marks)	
	TOTAL FOR PAPER: 100 MARKS	
	END	



BLANK PAGE

|____



BLANK PAGE