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

Paper Reference(s) Examiner's use only 4400/2F**London Examinations IGCSE** Team Leader's use only **Mathematics** Paper 2F

Foundation Tier

Wednesday 7 November 2007 – Afternoon

Time: 2 hours

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 22 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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Answer ALL TWENTY TWO successors	bla
Answer ALL I WENTY I WO questions.	
You must write down all stages in your working.	
The diameter of the planet Mercury is 4878 km. The diameter of the planet Mars is 6794 km.	
(a) Write the number 4878 in words.	
(1)	
(b) Write down the value of the 7 in the number 6794	
(1)	
(c) Write the number 4878 correct to the nearest thousand.	
(1)	
On Mercury, the temperature is $350 ^{\circ}\text{C}$ during the day and $-170 ^{\circ}\text{C}$ at night.	
(d) Work out the difference in temperature between $350 ^{\circ}\text{C}$ and $-170 ^{\circ}\text{C}$.	
°C (1)	
The mass of Mars is 11% of the mass of Earth.	
(e) Write 11% as	
(i) a fraction,	
(ii) a decimal.	
(2)	Q1
(Total 6 marks)	

Turn over

N 2 8 9 6 2 A 0 3 2 0

Leave blank 2. The pictogram shows information about the numbers of planes in the fleets of five airlines in 2004. Virgin Atlantic \rightarrow \rightarrow \rightarrow \rightarrow Air India \rightarrow \rightarrow \rightarrow \rightarrow ► Royal Brunei Airlines \rightarrow $\mathbf{+}$ Pakistan International ┢ Airways LOT Poland Airlines \rightarrow ► (a) Which of the airlines had the greatest number of planes in its fleet? (1) Virgin Atlantic had 35 planes in its fleet. (b) (i) How many planes does \rightarrow represent? (ii) Write down the number of planes in Royal Brunei Airlines' fleet. (iii) Find the number of planes in Air India's fleet. (3) $\frac{3}{8}$ of Pakistan International Airways' fleet of 32 planes were Boeing 747s. (c) Work out $\frac{3}{8}$ of 32 (2)

14 out of Virgin Atlantic's fleet of 35 planes were Airbuses.	Lea bla
(d) Write 14 out of 35 as a fraction. Give your fraction in its simplest form.	
(2) The ratio of the number of planes in Air China's fleet to the number of planes in Malaysian Airlines' fleet was 6 : 7 There were 72 planes in Air China's fleet. (e) Work out the number of planes in Malaysian Airlines' fleet.	
(2) (Total 10 marks)	Q
3. Complete the following sentences by writing a sensible metric unit on each of the dotted lines	
(i) The length of AB is 67 B	
(ii) The weight of this examination paper is 55	
(iii) The height of the Eiffel Tower is 324	Q3
(Total 3 marks)	
	5



6 The first four terms of a number sequence are		Leave blank
2 4 8 16		
(a) Write down the next term of the sequence.		
	(1)	
(b) Explain how you found your answer.		
	(1)	
(c) The 13th term of the sequence is 8192		
Work out the 12th term of the sequence.		
(d) Explain why 513 cannot be a term of the sequence.		
	(4)	
	(1)	Q6
7 (a) Simplify $d + d$	(Total 4 marks)	
7. (a) Shipiny $u + u$		
	(1)	
(b) Simplify $p \times q \times 6$		
(c) Simplify $7x + 5y - 4x - 7y$		
	(2)	
(d) Simplify $2n \times 3n$	(2)	
(2, Simplify 2000)		
	(1)	Q7
	(Total 5 marks)	
		7



0. Her	re is a 3-sided spinner.			
The	e sides of the spinner are labelled 1, 2 and 3			
(a)	Nathan spins the spinner once.			
	Write down the probability that the spinner will land on a 4			
	(1)			
(b)	Daisy spins the spinner twice. One possible outcome is (1, 2). This means that the spinner lands on a 1 on the first spin and a 2 on the second spin. List all the possible outcomes.			
(c)	The spinner is fair. Daisy spins the spinner twice.			
	What is the probability that the two numbers it lands on are both odd?			
	(2)	Ç		
	(Total 5 marks)	+		

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