Centre No.			Surname	Initial(s)
Candidate N			Signature	



Foundation Tier

Monday 5 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 24 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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	Write	e your ans	wers in the	spaces provi	ided.		
	You mu	st write do	own all stage	es in your w	orking.		
	21	23	24	25	27		
Write down a	number fro	om the box	which is				
(a) an even i	number						
						(1)	
(b) a multipl	e of 9						
						(1)	
(c) a factor of	of 46						
						(1)	
(d) a square	number						
						(1)	
(e) a cube m	umber						
(f) a prime	number					(1)	
(r) a prime r							
							Q
						(Total 6 marks)	

Turn over







Turn over



(e)	China's percentage was 13%		blank
(0)	Draw a bar on the bar chart to show this in	nformation. (1)	
He	re are some forecasts for 2010.		
	The world's carbon dioxide emissions	30 000 million tonnes	
	Percentage for India	4.6%	
(f)	Work out 4.6% of 30 000 million tonnes.		
		.11.	
		million tonnes (2)	Q4
		(Total 8 marks)	

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7.	Her	e are the lengt	hs, in centin	netres of six	worms			Leave blank
	1101	4.7	4.7	5.7	6.3	8.0	9.6	
	(a)	Find the mod	e.					
								cm
	(b)	Find the med	ian					(1)
	(0)	1 1114 110 11104						
								cm
	(a)	One of the size	k worms is t	alson at rand	om			(2)
	(C)	Find the prob	ability that t	the length of	this worm i	S		
		(i) 5.7 cm,						
		(ii) more that	n 7 cm.					
								 (3) Q7
							(Total 6 mark	(5)
								0

8. (a) The rule for a s	equence is	
	Term = 2 × Term number + 5	5
(i) Work out the second	ne term when the term number is 10	
(ii) Find the ter	rm number when the term is 65	
		(3)
(b) Write down the	next two terms in this sequence.	
		(2)
		(Total 5 marks)

9. DVDs cost £16 each.	Leav blar
CDs cost £12 each.	
(a) Work out the total cost of 5 DVDs and 7 CDs.	
£	
(2)	
(b) Write down an expression for the total cost of x DVDs and y CDs.	
£	
(2)	Q9
(Total 4 marks)	
10. (a) (i) Find $\sqrt{5.5}$ Write down all the figures on your calculator display	
while down an the figures on your curculator display.	
(ii) Write your answer to part (a)(i) correct to 3 decimal places.	
(b) (i) Find $4 3^3$	
Write down all the figures on your calculator display.	
(ii) Write your answer to part (b)(i) correct to 2 significant figures.	
(2)	Q10
(Total 4 marks)	
	11
	Furn ov



12. Car	hire costs £45 for the first 200 km.		blan
For	distances over 200 km, there is an extra cost of f0.50 per km		
(a)	Ravi hired a car and drove 350 km. Calculate his total cost.		
		£(3)	
(b)	Cheryl hired a car. Her total cost was £140		
	Work out the distance Cheryl drove.		
		km (4)	Q12
		(Total 7 marks)	
			1





Turn over

	Score	Frequency	
	1	5	
	2	8	
	3	3	
	4	4	
Work out the mean score			
work out the mean score			
			(T-4-1 2
			 (Total 5 marks)

6. A triangle has two equal sides of length $2x$ cm and one side of length x	cm.	
$2x \operatorname{cm}$ $2x \operatorname{cm}$ $Diacaction action a$	agram NOT curately drawn	
(a) Write down the mathematical name of this triangle.		
	(1)	
(b) The perimeter of this triangle is 12 cm.		
(i) Use this information to write down an equation in x .		
(ii) Solve your equation to find the value of x .		
	<i>x</i> =	
	(3)	Q16
	(Total 4 marks)	

Turn over





Turn over



21. Jim fires an arrow at a target.



The table shows all the possible outcomes and the probabilities of three of these outcomes.

Result	Probability
Bull's Eye	
Inner Ring	0.3
Outer Ring	0.4
Miss	0.2

Work out the probability that Jim's arrow will hit either the Bull's Eye or the Inner Ring.



21

Q21

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(Total 3 marks)

Turn over

Leave blank





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