

General Certificate of Secondary Education 2011

# **Mathematics**



Module N5 Paper 1 (Non-calculator) Foundation Tier

[GMN51]

MONDAY 6 JUNE 1.30 pm – 2.30 pm



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Marks

Ouestion

Number 1 2

3

4

6

7

8

9

10

11

 $\frac{12}{13}$ 

14

15

16

Total Marks

### TIME

1 hour.

### **INSTRUCTIONS TO CANDIDATES**

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper. Answer **all sixteen** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions. You **must not** use a calculator for this paper.

#### INFORMATION FOR CANDIDATES

The total mark for this paper is 56. Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. You should have a ruler, compasses, set-square and protractor. The Formula Sheet is on page 2.

6393

Examiner Number









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2	Choose from		Examiner Only Marks Remark			
	Impossible Certain Likely Unlikely					
	Very unlikely Evens Very likely					
	to describe the probability of each of the following. Explain your	answers.				
	(a) An ordinary dice will land on an odd number.					
	Answer because					
		[2]				
	( <b>b</b> ) You will sleep some time this week					
	Answer because					
		[2]	TutilO utin 2			
		L J	Total Question 2			
3	TV DEAL					
	A B Pay £120 deposit Pay nothing now					
	and £20 per monthOne payment of £400for 12 monthsin six months time					
	Which is the cheaper way to pay for a TV and by how much?					
			Total Question 3			
	Answer by £	[4]				
6393	3					



4	(a)	<b>Estimate</b> the total length of 82 cars whose average length is 3.8 metres.	Examine Marks	r Only Remark
		Answer m [2]		
	(b)	<b>Estimate</b> the area of a rectangular pond with length 19.6 metres and breadth 7.8 metres.		
		Answer m <sup>2</sup> [2]		
	(c)	Estimate $\sqrt{79}$		
		Answer [1]		
	(d)	Estimate how many toys costing £5.95 each could be bought for £55.		
		Answer toys [2]		
		Allsweitoys [2]		
			Total Que	stion 4
6393			[Turn	ı over

5



5	(a)	Write the word <b>more</b> or <b>less</b> in the blank space to complete this sentence.		Examin Marks	er Only Remark
		A gallon is than a litre.	[1]		
	(b)	The formula			
		Number of gallons = (Number of litres $\times$ two) $\div$ nine			
		gives an approximation for converting between litres and gallons.			
		(i) Use the formula to convert 36 litres to gallons.			
		Answer gallons	[2]		
		<ul><li>(ii) If G is the number of gallons and L is the number of litres write a formula, in its simplest form, for G in terms of L.</li></ul>	e		
		Answer	[3]	Total Qu	lestion 5
6	Wh pot	ich is heavier, a 5 kilogram bag of potatoes or a 10 pound bag of atoes?			
	Exp	olain your answer.			
	An	swer because			
			[2]		
				Total Qu	estion 6
6393					









9

(b)				1	Examir Marks	ner Only Remark
3.7 cm	Q 6 cm		R			
			18 cm	]		
<ul><li>The diagram shows two rectangles. (Not drawn accurately)</li><li>Rectangle R is an enlargement of rectangle Q.</li><li>(i) What is the scale factor of the enlargement?</li></ul>						
			Answer	[1]		
(ii	ı of					
			Answer	[2]	Total Qu	uestion 8
9 Rewri Write	te $c - 2 = 10 - b$ your answer in its s	to make <i>b</i> the simplest form.	subject. Answer <i>b</i> =	[2]	Total Qu	uestion 9



10	<b>(a)</b>	Write down the reciprocal of 3			Examin Marks	er Only Remark
			Answer	[1]		
	(b)	Calculate				
		$(-45) \div (-9)$				
			Answer	[1]		
	(c)	Given that $84 \times 356 = 29904$ , find $\frac{29904}{8.4}$				
			Answer	[1]		
					Total Qu	estion 10
6393						















13

F		14			-	-
⊦	15	Jack divided marbles between himself and Jill in the ratio 4:3		Examiner (	Only	-
F		Jack then had 84 marbles.		Marks Re	emark –	┥
⊦		How many marbles were there in total?			-	-
F					-	-
F					-	-
┝		Answer	[2]	<b>T</b> + 10		-
F			LJ	Total Quest		-
+						-
	16	Use ruler and compasses to construct the bisector of the angle ABC.				-
		You must show all construction lines.				-
		A				
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۔ ۲						י –
'  -		В			-	י –ו
-					-    -	-
F					-	-
⊦		C	[2]		-	┥
⊦			[2]		-	┥
⊦			-		-	┥
⊦		THIS IS THE END OF THE QUESTION PAPER	_		-    -	┥
⊦				Total Ouest	ion 16	-
⊦					-	┥
F	639	93			-	-
F						+
F					-	-
⊢					-	-
┝		www.StudentBounty.com			-	-

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