

General Certificate of Secondary Education January 2011

Mathematics



Module N1 Paper 2 (With calculator) Foundation Tier

[GMN12]

TUESDAY 11 JANUARY 10.30 am – 11.15 am



TIME

45 minutes.

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 thirteen** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 44.

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 calculator, ruler, compasses, set-square and protractor.



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Candidate Nun

For Exa use	miner's only
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
Total Marks	



3 Forty pupils were asked to write down an odd number less than 10

Here	are	the	results

1	5	9	3	1	7	9	5	5	5
3	3	9	7	7	7	5	1	3	7
9	5	1	1	3	7	9	5	3	9
3	3	7	7	1	1	9	3	5	7

(a) Complete the following frequency table.

Odd Number	Tally (if required)	Frequency
1		
5		
9		

(b) Draw a clearly labelled bar chart to show this information on the grid below.



[Turn over

Examiner Only Marks

[2]

[3]

Ren



6	(a)	The display on a frid compartment as follo	ge/freezer shows	the temperature in each	Examiner Only Marks Remark
		FRIDGE:	5°C	-18°C: FREEZER	!
		(i) How much colde	er is the freezer th	an the fridge?	
				Answer	°C [1]
		(ii) The door of the temperature in the	freezer was not cl ne freezer rose by	osed properly and as a rest 5°C.	ult the
		What temperatur freezer?	e should now be	showing on the display for	r the
				Answer	°C [1]
	(b)			12 cm	
			18 cm		
		Linda has 80 one-cer 18 cm by 12 cm tray	ntimetre square til to form a rectangl	es. She places all of them e.	on an
		This can be done in t rectangles.	wo different ways	s to produce two different-	sized
		For each one state the	e length and bread	dth of the rectangle.	
		length =cm	, breadth =	cm	[1]
		length =cm	, breadth =	cm	[1]

[Turn over

7	Cor	nplete each of the following:		Examine Marks	er Only Remark
	(a)	A man was facing North.			
		He turned 135° anticlockwise.			
		He then faced	[1]		
	(b)	A man now faces West.			
		He originally faced North West.			
		He turned° clockwise.	[1]		
8	The	ages of 10 people leaving a chemist shop were recorded 57 61 28 33 48 19 48 35 12			
	(a)	Calculate the mean age.			
		Answer	[3]		
	(b)	Find the median age.			
		Answer	[2]		

9	(a)	A teacher has 16 boxes of sweets.		Examiner Only Marks Remark
		Each box contains 25 sweets.		
		The teacher shares as many sweets as pos 23 pupils.	ssible equally among	
		(i) How many sweets does each pupil re	eceive?	
		(ii) How many sweets are left over?	Answer sweets [1]	
			Answer sweets [1]	
	(b)	VANZ-TO-GO Van hire charges £52 per day plus 19p per mile Bob hires a van for two days. When he returns it the total hire charge is How many miles did he drive it for?	£137.06	
			Answer miles [3]	

[Turn over



12 (a) A right-angled triangle has sides of 3 cm, 4 cm and 5 cm.



On the grid below show how two of these triangles can be put together to make a parallelogram.



(b) Calculate angle *t* in the triangle below.



Answer	 ° [2]	

[Turn over

Examiner Only Marks Remark

13 The stem and leaf diagram shows a list of temperatures.

The stem and leaf diagram shows a list of temperatures.	Examiner Only
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Marks Remark
Key $4 \mid 1 = 41 ^{\circ}\text{C}$	
Write down	
(a) the range,	
Answer°C	[1]
(b) the median.	
Answer°C	[1]
THIS IS THE END OF THE QUESTION PAPER	

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