

Student Bounty.com

General Certificate of Secondary Education January 2012

Mathematics



Module N1 Paper 2 (With calculator) Foundation Tier

[GMN12]

WEDNESDAY 11 JANUARY $10.30 \, \text{am} - 11.15 \, \text{am}$



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 twelve 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.

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

Total	
Marks	

1 Write down the next term of the sequence	1	Write down	the next term	of the sequence
--	---	------------	---------------	-----------------

13.	7.	
	13,	13, 7,

Answer	[1]

Examiner Only

2 Tim Jackson visited a shop called "Music Mania."

He bought 3 CDs at £7.99 each and 2 DVDs at £8.50 each.

(a) Calculate his total bill.

(b) Tim paid by cheque.

Complete the cheque below.

₩ STA	R Bank	•			25-08-92
Town Square, Leylar			1 1		Date04/01/12
Pay			0		£
Amount			C Payee		~
			À		<u>Tim Jackson</u>
₩ Bank plc 10JUL00					Mr Tim Jackson
	Cheque No. 000121	Branch No. 29II0892	Account No. 0403392	Trans. Code 01	

[2]

3	Thirteen students had the following number of books in their bags.

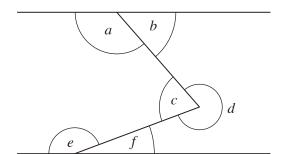
3	8	4	3	6,	5	9	3	7	4	3	5	í
Э,	0,	4,	Э,	υ,	Ι,	9,	3,	7,	4,	3,	Ι,	(

	(a)	What is	the	median	number	of l	books	1
--	---	----	---------	-----	--------	--------	------	-------	---

Answer	books	[2]

Examiner Only

4 (a)



Examiner Only

Marks Remark

From the diagram, write down a letter for an angle which is

(i) acute,

Answer _____ [1]

(ii) obtuse,

Answer _____ [1]

(iii) reflex.

- Answer _____ [1]
- **(b) (i)** Using the point marked "C" as the centre, draw a circle with a radius of 3.5 cm.

 $^{\text{C}}$.

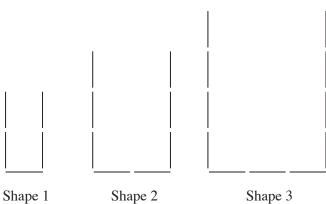
[1]

[1]

- (ii) Draw a diameter on this circle.
- (iii) Draw any chord parallel to your diameter. [1]

5	Some	"U"	shapes	drawn	below	are	made	with	matches.
	Donic	\circ	SHapes	arawii	OCIOW	arc	maac	VV I LII	matches.

Examiner Only							
Marks Remark							



1

pe 3	Shape 4

Shape Number	1	2	3	4	5
Number of Matches	5	8	11		

(b) Complete the table for Shapes 4 and 5.

- [1]
- (c) What pattern do you notice in the "Number of Matches" row?

Answer	[1]

(d) Find the number of matches in Shape 10.

Answer	[2]
I III W CI	

6 (a) There are 10 students on a school bus.

Their ages in years are 12, 15, 13, 17, 10, 14, 16, 15, 16, 11

What is the mean age of the 10 students?

Answer	years	га-
Answer	years)

Examiner Only

(b)

Ayr

90	Carlisle	Mileages							
73	96	Edinburgh							
132	196	144	Fort William						
33	96	44	160	Glasgow					
94	136	45	105	61	Perth				
51	101	124	184	84	144	Stranraer			

(i) John travels from Carlisle to Perth. What distance does he travel?

Answer _____ miles [1]

(ii) Mark travels from Carlisle to Glasgow and then on to Perth.

How many more miles does Mark travel than John?

Answer _____ miles [2]



TE 4 3 TG	1	0.00	T	DD.	~-
JEANS	- ÷	ひとと	1ACi	PKI	CE.

SHIRTS – 15% OFF TAG PRICE

Examiner Only				
Marks	Remai			

Jim buys jeans and a shirt in the sale.

The price tag on the jeans is £54.

The price tag on the shirt is £28.

What is the total cost of his items in the sale?

Answer £	Г4
Allowel L	17

8 The shoe sizes for 18 pupils in a class are recorded in the frequency table below.

Shoe size	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9
Number of pupils	1	0	5	4	4	2	1	0	1	0

(a) Write down the modal shoe size.

Answer _____ [1]

(b) Work out the range of these pupils' shoe sizes.

Answer _____ [1]

9 Each student in Year 10 studies one language (French, Spanish or German).

Examiner Only				
Marks	Remark			

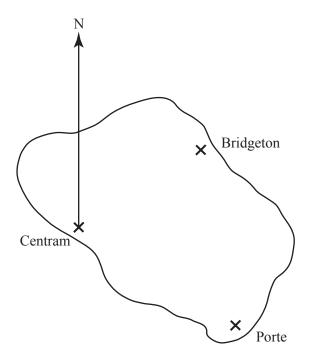
There are 135 students in Year 10.

Two-fifths study French, one-third study Spanish and the rest study German.

How many students study German?

Answer [4]

10



(a) Write down the bearing of Bridgeton from Centram.

Answer _____ °[1]

(b) Write down the bearing of Porte from Centram.

Answer _____ °[1]

11	The	volum	nes of this	cube and	this cuboi	d are the same.		Examiner Only Marks Remark
	Wh	at is the missing length marked ℓ on the cuboid?						
			6cm	6cm		4cm 6cm		
						Answer	_ [3]	
12	(a)	Calcul	late					
		$\frac{1}{2.5^2}$						
		Give y	our answ	er as a de	cimal.			
						Answer	_ [2]	
	(b)	Which of the following fractions is nearest in size to $\frac{3}{5}$? Show your working.						
		7 10	$\frac{11}{20}$	$\frac{17}{30}$	$\frac{1}{2}$			
						Answer	_ [2]	
							-	

THIS IS THE END OF THE QUESTION PAPER





Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA will be happy to rectify any omissions of acknowledgement in future if notified.