First name(s)

Centre Number

GCSE



3300U10-1

MONDAY, 14 NOVEMBER 2022 – MORNING

MATHEMATICS UNIT 1: NON-CALCULATOR FOUNDATION TIER

1 hour 30 minutes

ADDITIONAL MATERIALS

The use of a calculator is not permitted in this examination. A ruler, a protractor and a pair of compasses may be required.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions in the spaces provided.

If you run out of space, use the additional page at the back of the booklet. Question numbers must be given for all work written on the additional page.

Take π as 3.14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

The number of marks is given in brackets at the end of each question or part-question.

In question **4**, the assessment will take into account the quality of your organisation, communication and accuracy in writing.



For Examiner's use only				
Question	Maximum Mark	Mark Awarded		
1.	6			
2.	2			
3.	2			
4.	5			
5.	2			
6.	2			
7.	2			
8.	3			
9.	3			
10.	2			
11.	3			
12.	2			
13.	2			
14.	2			
15.	3			
16.	4			
17.	3			
18.	3			
19.	3			
20.	2			
21.	2			
22.	2			
23.	5			
Total	65			



2

Examiner only

1.	(a)	Write	the numbe	er sixty-th	ree thous	and and twenty-nine in figures.	[1]
	(b)	Write 2	2481 corre	ect to the	nearest 1	0.	[1]
	(C)	Multip	ly 291 by 7	7.			[1]
	(d)	Subtra	act 513 froi	m 842.			[1]
	·····						
	(e)	A num The ai What i	ber is mul nswer is 5 s the num	tiplied by 6. ber?	4 and the	en doubled.	[2]
				The r	number is		
2.	Write (a)	e down t 67,	he next nu 73,	umber in e 79,	each of th 85,	e following sequences.	[1]
	(b)	103,	92,	81,	70,		[1]

3



03

3300U101 03



3300U101 05

		∃Examin
1.	In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.	only
	A customer buys 7 identical small boxes and 3 identical large boxes from a shop. The total cost of these boxes is £59. Each small box costs £5.	
	How much does each large box cost?	
	You must show all your working. [3 + 2 OCW]	





3300U101 07







07

-		
c)	
	1	١
-	,	,

		7
Place	Time	_
Aber	13:30	
Berw	14:40	
Ceiro	16:30	
Dinas		



9 Examiner only 18 - p = 6(b) [1] **11.** Use a ruler and a protractor to make an accurate drawing of this triangle in the space below. [3] 67° 52° 8.4 cm 3300U101 09 Diagram not drawn to scale



		31	33	35	37	39	41	43	
fir	nd	-			-			-	
(;	a)	the multiple of	⁵ .5,						[1]
••••									
			The mu	ıltiple of 5∙	5 is				
(b)	the factor of 1	11.						[1]
••••									
			The fa	ctor of 111	is				
1 3. SI	hade he so	e the least num	The fa iber of squ	ctor of 111 uares so th	is	d has rotat quadrants.	ional sym	metry of orde	r 2.
 1 3. SI TI	hade he so	e the least num quares you sha	The fa ober of squ ade must l	ctor of 111 uares so th be in the lo	is nat the grid ower two o	d has rotat quadrants.	ional sym	metry of orde	r 2. [2]
 I 3. SI TI	hade he so	e the least num quares you sh	The fa	ctor of 111 uares so th be in the lo	nat the grid	d has rotat quadrants.	ional sym	metry of orde	r 2. [2]
 1 3. SI TI	hade he so	e the least num quares you sh	The fa	ctor of 111 uares so th be in the lo	nat the grid	d has rotat quadrants.	ional sym	metry of orde	r 2. [2]
 1 3. SI TI	hade he so	e the least num quares you sh	The fa	ctor of 111 uares so th be in the lo	at the grid	d has rotat quadrants.	ional sym	metry of orde	r 2. [2]
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 I 3. SI Tł	hade	e the least num quares you sh	The fa	ctor of 111 uares so th be in the lo	at the grid	d has rotat quadrants.	ional sym	metry of orde	r 2. [2]

			E
I. Two	friends, Geraint ar	nd Dyfrig, are having a discussion.	
(a)	Geraint says,		
		"All prime numbers are odd numbers."	
	Explain why Ger	aint is incorrect.	[1]
(b)	Dyfrig says,		
		"All cube numbers are odd numbers."	
	Explain why Dyf	rig is incorrect.	[1]
••••••			
•••••			
			Turn over
	© WJ	EC CBAC Ltd. (3300U10-1)	

5. Andı Andı Grac	rew and Grace each have some £10 notes and £5 notes. rew has 6 notes. The total value of Andrew's notes is £55. ce has 5 notes. The total value of Grace's notes is £35.	
How How	many £10 notes do they have in total? many £5 notes do they have in total?	[3]
······		
Total r	number of £10 notes = Total number of £5 notes =	
(a)	Solve the equation $7p - 3 = 60$.	[2]
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(a)	Solve the equation $7p - 3 = 60$.	[2]
. (a)	Solve the equation $7p - 3 = 60$.	[2]
. (a) (b)	Solve the equation $7p-3 = 60$. Simplify the expression $6a - 7b - 2a - 8b$.	[2]
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. (a)	Solve the equation $7p - 3 = 60$. Simplify the expression $6a - 7b - 2a - 8b$.	[2]



Examiner only

[3]

17. In a restaurant, as part of a Set Meal, customers must choose a starter, main course and dessert from the options below.

	Set Meal				
Starter	Main Course	Dessert			
Melon (M) or Soup (S)	Chicken (C) or Ham (H) or Pizza (P)	Fruit (F) or Yoghurt (Y)			

List all the possible different combinations of starters, main courses, and desserts that the restaurant offers.

One has been done for you.

	Set Meal	
Starter	Main Course	Dessert
Μ	С	F



18.	There are five numbers in a list. The mean of the five numbers is 7. Another number is added to the list.	Examine
	Find the value of the sixth number.	
19.	A sum of money is shared in the ratio 1:8. The larger share is £16.80. What is the total amount of money shared? You must show all your working. [3]	



20.	Estimate the value of $\frac{20 \cdot 4 \times 59 \cdot 1}{407}$.	Exami
	You must show all your working.	[2]
21.	The <i>n</i> th term of a sequence is given by $3n - 13$. Write down the value of	
	(a) the 10th term,	[1]
	(b) the 4th term.	[1]



Number shown on dice	1	2	3	4	5	6	
Frequency	65	40	52	10	23	110	
The relative frequency of thro	owing a 5 is	$\frac{23}{300}$.					
Sive your answer as a fractic	y of throwir on in its sim	ng a 2? Iplest form	1.				[2]

	_
- 1	7
- 1	1

23.	A rectangle and a square are shown below.	Examine
	9 cm	
	15 cm	
	Diagrams not drawn to scale	
	The total area of the two shapes is 184 cm ² . Find the perimeter of the square. [5]]
		•



END OF PAPER

Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examiner only
		1



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