Surname

First name(s)

Centre Number Candidate Number

0

GCSE WJEC Cbac 3310U10-1

TUESDAY, 8 NOVEMBER 2022 – MORNING

MATHEMATICS – NUMERACY 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 the 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.

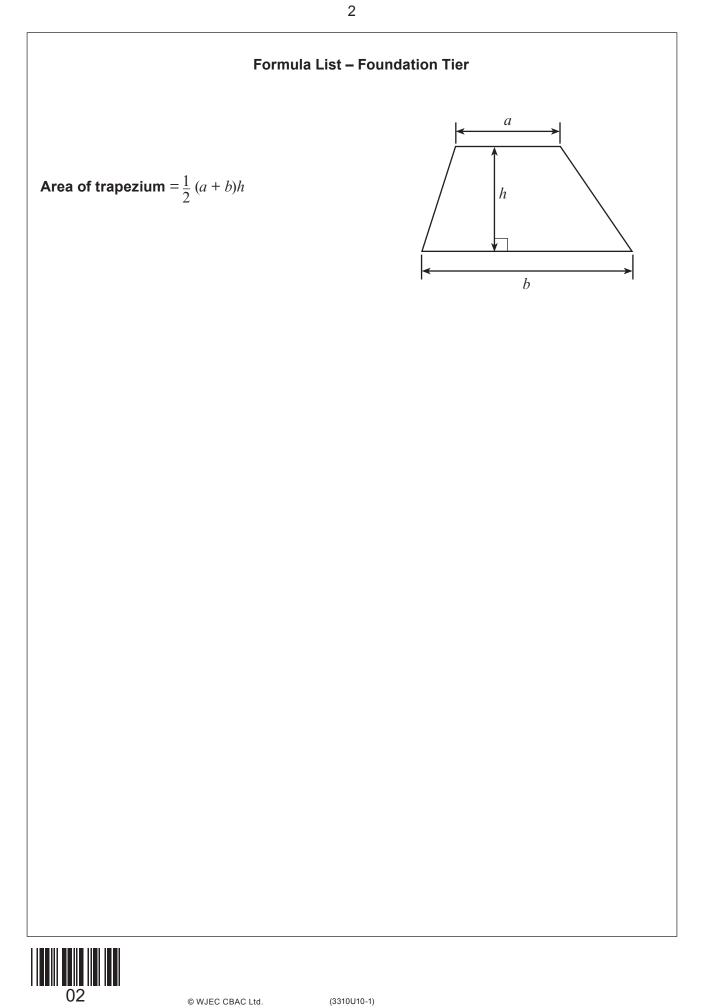
Scale drawing solutions will not be acceptable where you are asked to calculate.

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

In question **5**, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.



For Ex	aminer's us	e only
Question	Maximum Mark	Mark Awarded
1.	3	
2.	10	
3.	4	
4.	7	
5.	9	
6.	4	
7.	9	
8.	3	
9.	11	
10.	5	
Total	65	



Examiner only Jayne and Llinos go shopping for their end of year prom. Jayne bought the following items. 1. Cost Item Dress £199.85 Shoes £38.75 Bag £27.98 Jewellery £18.99 Llinos says, I think you have spent over £300 in total. By approximating the cost of each item, show that Llinos is not correct. You must show all your working. 3310U101 03 [3] _____



Examiner only



The table below shows the number of visitors to some of the top attractions in Wales in 2017 and 2018.

The table also shows the percentage change in the number of visitors from 2017 to 2018.

Attraction	Number of visitors 2017	Number of visitors 2018	Percentage change
Folly Farm	480000	455428	-5·1%
Cardiff Castle	319 131	452007	+41.6%
Bodnant Garden	255949	260 153	+1.6%
Caernarfon Castle	204675	205009	+0·2%
Conwy Castle	221652	201961	-8.9%
Zip World Slate Caverns	190 000	195000	+2.6%

Use the information in the table above to answer the following questions.

(a)	Zip World Slate Caverns had 195000 visitors in 2018. Write this number in words.	[1]
(b)	Which attraction had the smallest percentage change from 2017 to 2018?	[1]
······		
(C)	Calculate the total number of visitors to Bodnant Garden in 2017 and 2018.	[2]
		······



2.

(d)	Calculate the difference between the number of visitors to Cardiff Castle in 2017 and the number of visitors to Cardiff Castle in 2018. [2]	Examiner only
	number of visitors to Cardiff Castle in 2018. [2]	
••••••		
(e)	lan looks at the data and says,	
(0)	"In 2018, Folly Farm had about half a million visitors."	
	Is lan correct? Give a reason for your answer. [1]	
	Yes No	
		5
		1010



3310U101 05

The tail is drawn on the continuetre aquere grid below
The tail is drawn on the centimetre square grid below. Each square on the grid represents an area of 4 cm ² .
Tailanin is planning to make flyers to advertise the attraction
Tailspin is planning to make flyers to advertise the attraction. To print the flyers, the area of the tail must be less than 48 cm ² .
The manager of Tailspin thinks that the area of the tail is greater than 48 cm ² .
Decide whether or not the manager is correct. You must show all your working. [3]
The manager is:
Correct Not correct

7	
Rhodri has a 6-digit code for his internet bank account.	Examinonly
He remembers the code as three lots of two-digit numbers.	
The first two-digit number is a prime number between 25 and 30. The second two-digit number is a square number between 10 and 20. The third two-digit number is an odd number that is a multiple of 7 between 20 and 40.	
All 6 digits of Rhodri's code are different . What is Rhodri's 6-digit code?	[4]
	رت]
Rhodri's 6-digit code is:	



	e designs follow a simple p rst three designs are show n 1 consists of 3 pieces of	n below.		
resig				
	Design 1	Design 2	Design 3	
(a)	How many pieces of meta	al will be used to make the	e brooch in Design 5?	[1]
(b)	Which design uses 11 pie	ces of metal?		[1]
(C)	A customer says,			
(c)	To find how many piece	s of metal are used in ev 3, because Design 1 has		
(c)	To find how many piece the design number by	3, because Design 1 has		
(c)	To find how many piece	3, because Design 1 has		
(c)	To find how many piece the design number by	3, because Design 1 has		
(c)	To find how many piece the design number by Is the customer correct fo	3, because Design 1 has		[1]
(c)	To find how many piece the design number by Is the customer correct for Yes	3, because Design 1 has		[1]



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	(d)	One customer decides to order a special brooch with a horizontal bar at the top.	Examiner only
		The designer knows two of the angles. These are shown in the diagram below.	
		55° × x	
		/ Diagram not drawn to scale	
			[2]
		<i>x</i> =°	
	(e)	The designer uses the following formula to calculate how much he will charge for a brooch.	3310U101 09
		Charge for a brooch (in £) = $2 \times \text{cost}$ of materials + 14	
		A customer spends £30 on a brooch for a friend.	
		Calculate the cost of the materials for this brooch.	[2]
		Cost of materials is £	
1 I III I	09	© WJEC CBAC Ltd. (3310U10-1) Turn ov	ver.

In this question, you will be assessed on your organisation, communication and a	the quality of ccuracy in writing.	
Gerry plays the piano in a band. He wants to buy a new digital piano. The total cost of the piano is £800.		
Gerry has already saved $\frac{3}{10}$ of the cost	of the piano.	
The manager of the band gives him 25% piano.		
Gerry decides to save £80 per week.		
How many weeks will it take Gerry to sav You must show all your working.	ve enough money to buy the piano?	[7 + 2 OCW]



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aminer only

• (n timetable from Kemp Station to Rowe Place ns leave the station: every 12 minutes from 8 a.m. until 10 a.m. every 20 minutes from 10 a.m. until late. akes 22 minutes from Kemp Station to Rowe Place.	
(a)	At what time does the first tram after 20:30 leave Kemp Station? Circle your answer.	1]
	20:50 20:40 21:00 20:36 20:42	
(b)	Nesta looks at the timetable shown above. She decides to take the latest possible tram from Kemp Station to be at Rowe Place by 10:15 a.m. At what time will Nesta's tram arrive at Rowe Place? You must show all your working.	, (3]

		∃Exar
7.	Rosie is printing two different rectangular pictures of her dog. The small picture has a height of 10 cm and a width of 5 cm. The large picture has a height of 40 cm and a width of 15 cm.	or
	Pictures not to scale	
	 (a) The small picture costs £2 to print. Each 1 cm² of the small picture costs the same to print as each 1 cm² of the large picture. 	
	Calculate the cost of printing the large picture. You must show all your working. [6]
		•
		•
		•
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•••••		
(b)	To make a frame, it costs 40p for each centimetre of the total distance around the outside of the picture.	
	Diagram not drawn to scale	
	Calculate the cost of making a frame for the small picture.	[3]
•••••		
•••••		
	Cost of making a frame for the small picture is	

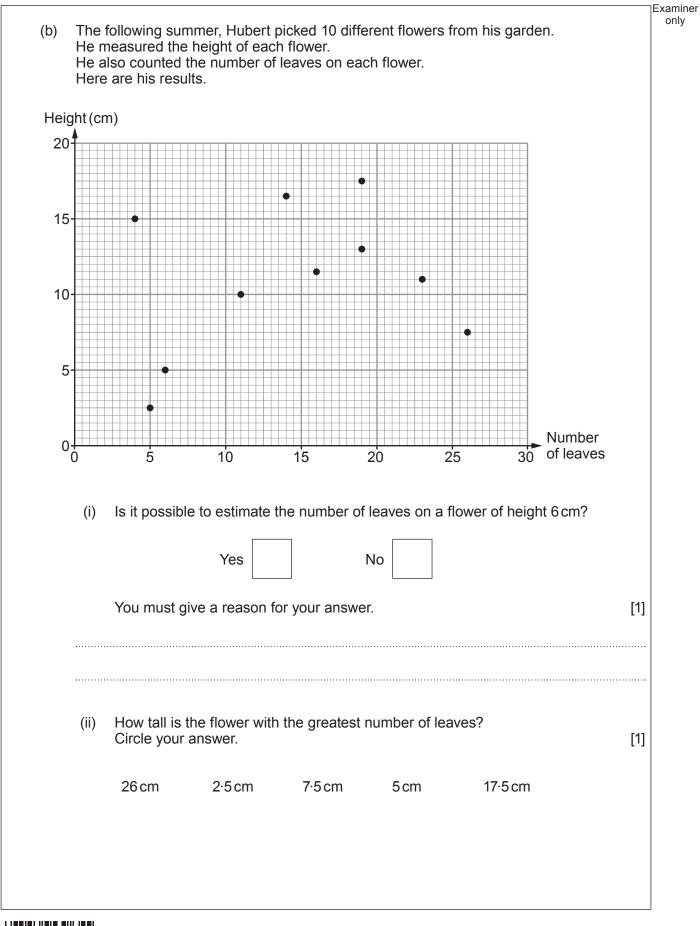


Martina is going to buy some			
Mada .	Male	Mille	
Small 500 ml for 40p	Medium 1200 ml for £1.20	Large 2000ml for £2.50	
Which size carton of milk off You must show all your work	ers the best value for money ing.	?	[3]



				E	xaminer
9.	(a)	(i)	Hubert has a quote from a gardener to landscape his garden. The gardener will charge a total of £175, excluding VAT. This total charge includes £55 for plants. The remainder of the charge is for labour.		only
			The gardener says it will take 8 hours to landscape Hubert's garden.		
			Calculate how much per hour the gardener is charging for labour.	[2]	
		•••••			
		•••••			
		•••••			
		(")			
		(ii)	VAT at 20% is payable on the charge of £175. Calculate the total charge of the landscaping, including the VAT.	[3]	
		•••••			
		•••••			
		•••••			







		IE	xamine
(iii)	There are two flowers that each have 19 leaves. Calculate the difference in the heights of these two flowers. You must show all your working.	[2]	only
	Difference in the heights is cm		
(iv)	Calculate the percentage of the flowers that have fewer than 23 leaves.	[2]	
17	© WJEC CBAC Ltd. (3310U10-1)	urn over.	

Examiner **10.** Malik has some cherry trees. Malik makes cherry jam using some of the fruit from his trees. He makes and sells 200 jars of cherry jam. It costs him £94 for all the ingredients to make the jam. Malik pays 23p for each jam jar he uses. He sells each jar of jam for £1.60. Calculate the profit Malik makes from selling his 200 jars of jam. [5] **END OF PAPER**

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only

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



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