

GCSE

3300U10-1

TUESDAY, 23 MAY 2023 – 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, 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.

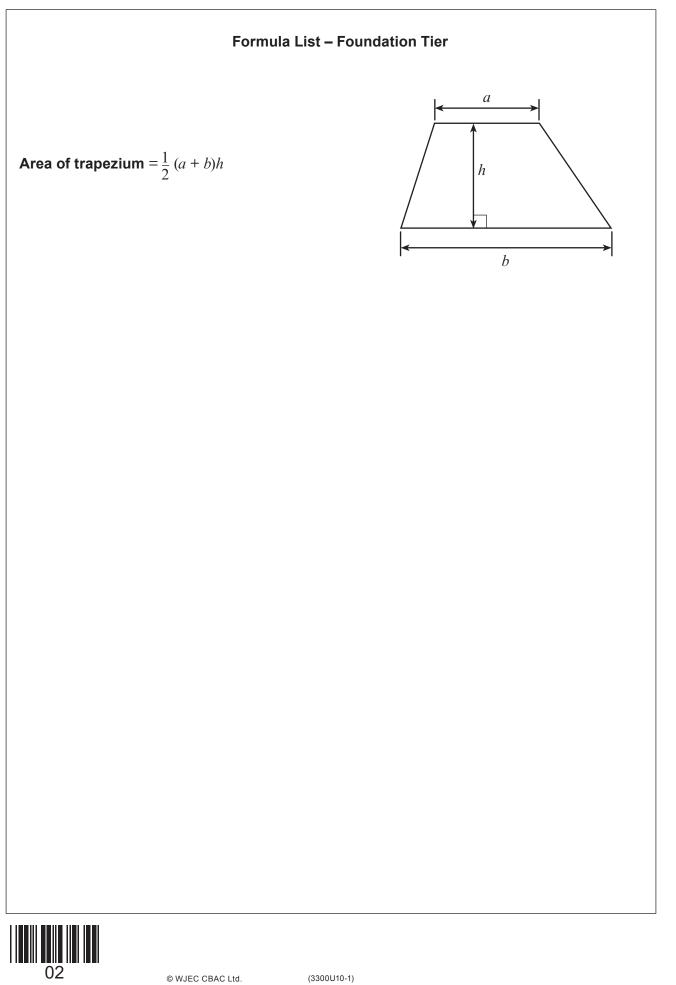
Scale drawing solutions will not be acceptable where you are asked to calculate.

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

In question **6**, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.



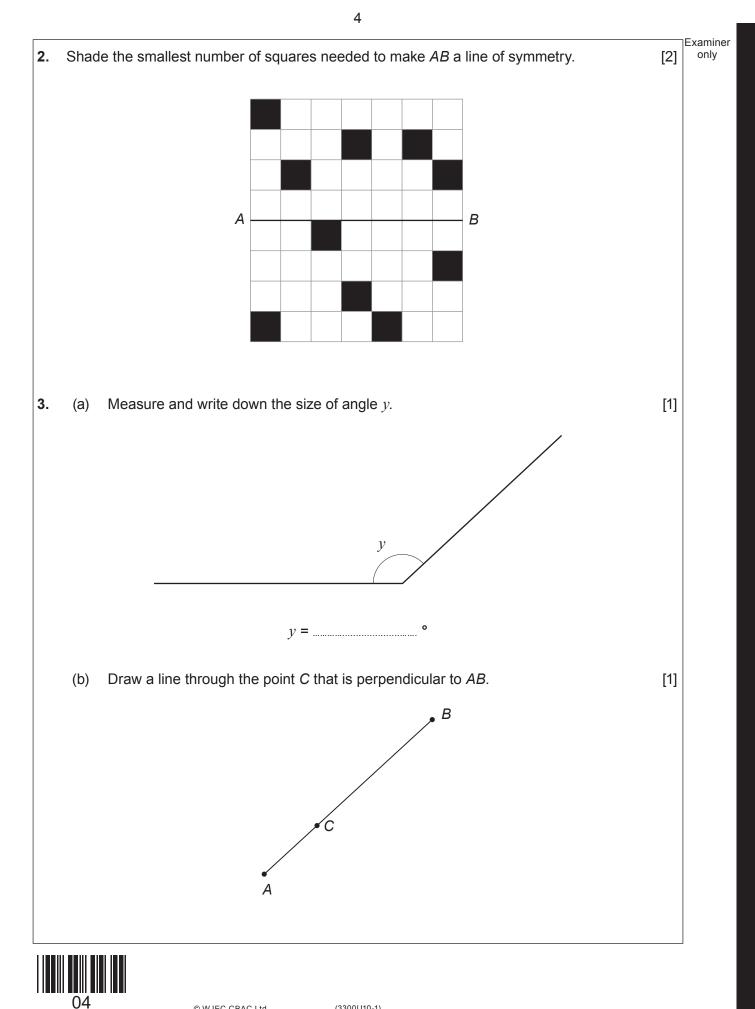
For Examiner's use only					
Question	Maximum Mark	Mark Awarded			
1.	5				
2.	2				
3.	2				
4.	4				
5.	2				
6.	6				
7.	2				
8.	2				
9.	2				
10.	5				
11.	3				
12.	2				
13.	4				
14.	2				
15.	3				
16.	3				
17.	3				
18.	5				
19.	6				
20.	2				
Total	65				



2

3300U101 03

[3	Examine
1.	(a)	Write the number sixty thousand and forty-three in figures.	[1] only
	(b)	Write down the value of the 7 in the number 137 520.	[1]
	(C)	Divide 504 by 8.	[1]
	(d)	Subtract 394 from 800.	[1]
	······		
	(e)	Multiply 93 by 7.	[1]
	03	© WJEC CBAC Ltd. (3300U10-1)	Turn over.



© WJEC CBAC Ltd.

3300U101 05

(a)	Billy thinks Billy halves His answer	of a number. his number. is 58.				E
	What numb	per did Billy think c	of?			[1]
(b)	Siân square Her answei	of a different num es her number. r is 9. per did Siân think o				[1]
(c)	Calculate 4	0% of 120.				[2]
······						
(a)	Circle the c	ne following is equa correct answer. 500 g		5 mg	50 g	[1]
(b)	50 mg Which of th Circle the c	ne following is equa	500 mg al to 700 cm?	Sing	50 y	[1]
	7 m	7 km	0.7 m	0·07 km	70 m	



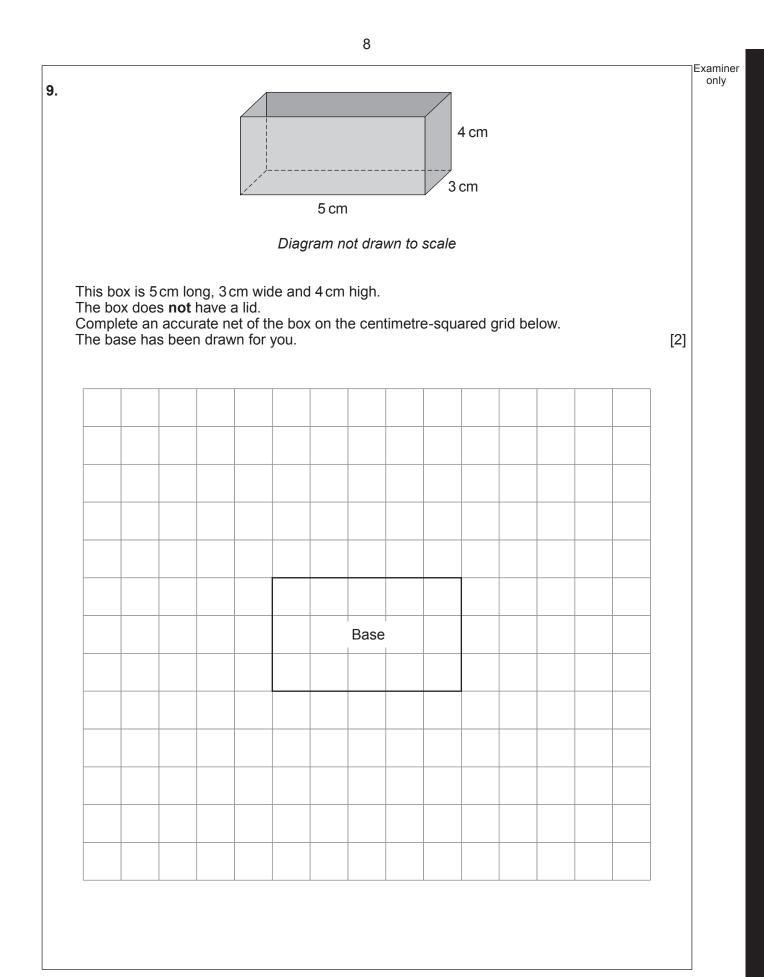
1	2	
٩		

		Examine
6.	In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.	only
	Rod A and Rod B are drawn accurately below.	
	Rod A	
	Rod B	
	Three of Rod A and four of Rod B are placed end to end in one straight line. What is the total length of these rods? You must show all your working. [4 + 2 OCW]	1
	06 © WJEC CBAC Ltd. (3300U10-1)	

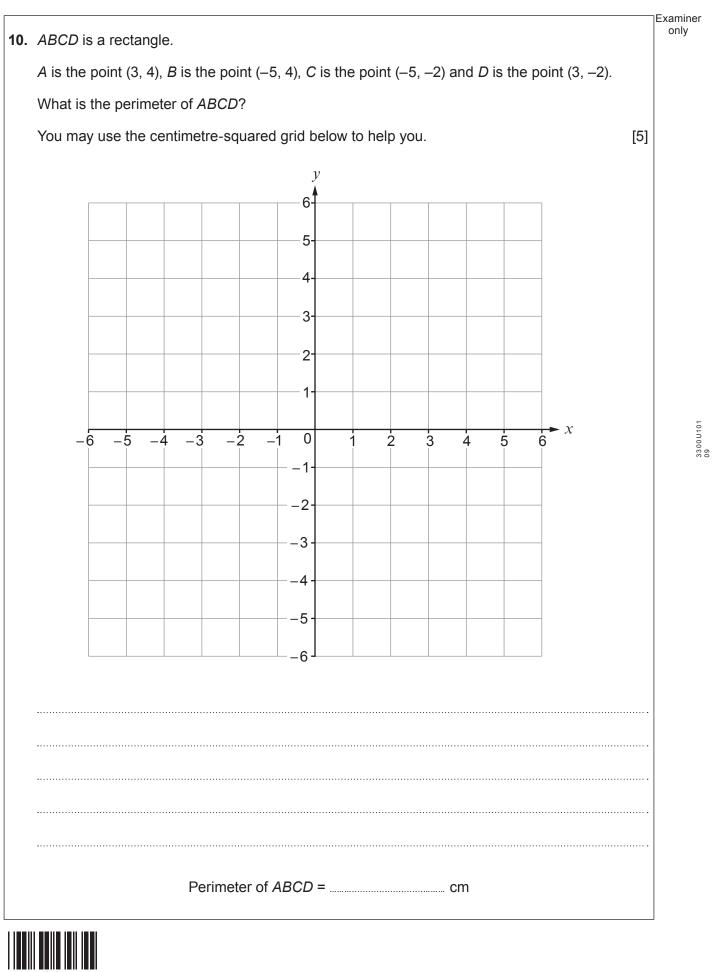
3300U101 07

7.	Catrin has a bag containing only apples, bananas and lemons. She has 20 pieces of fruit altogether in her bag. Catrin chooses one piece of fruit at random from her bag. The probability that she chooses each type of fruit is shown on the probability scale be where • A represents apple • B represents banana • L A B L A B	Examine only
	0 1 How many apples does Catrin have in her bag?	[2]
8.	 (a) The cost of one book is £<i>m</i>. What is the cost of 15 books in pounds (£)? 	[1]
	 (b) leuan has 20 oranges. He gives away k oranges. How many oranges does leuan have now? 	[1]

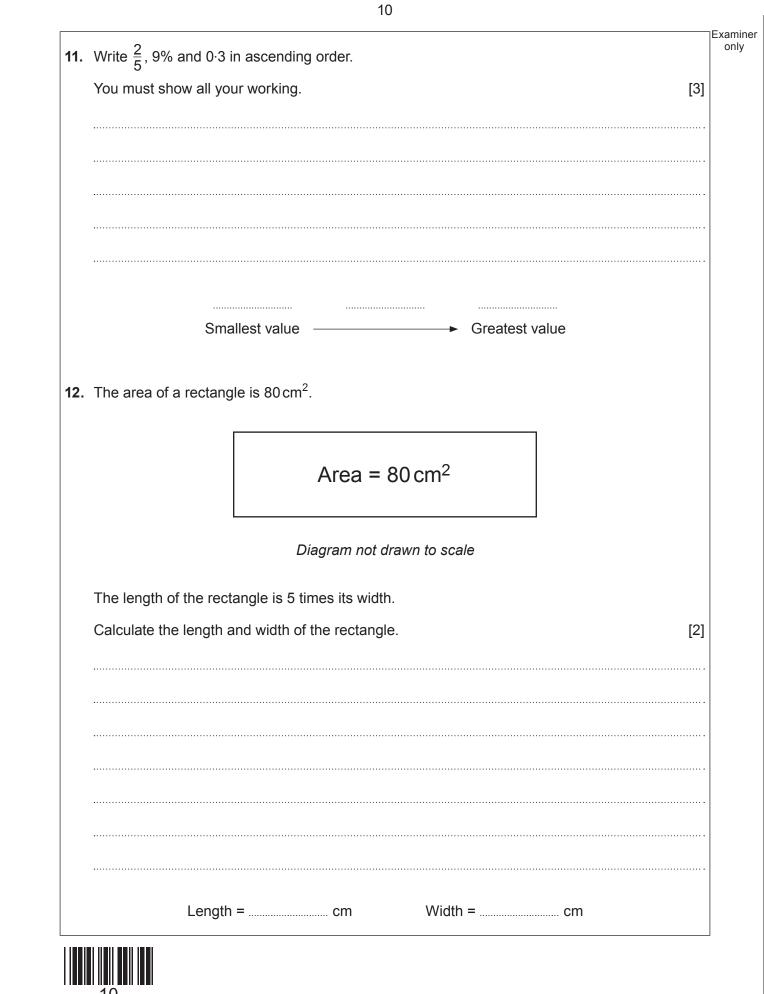








09



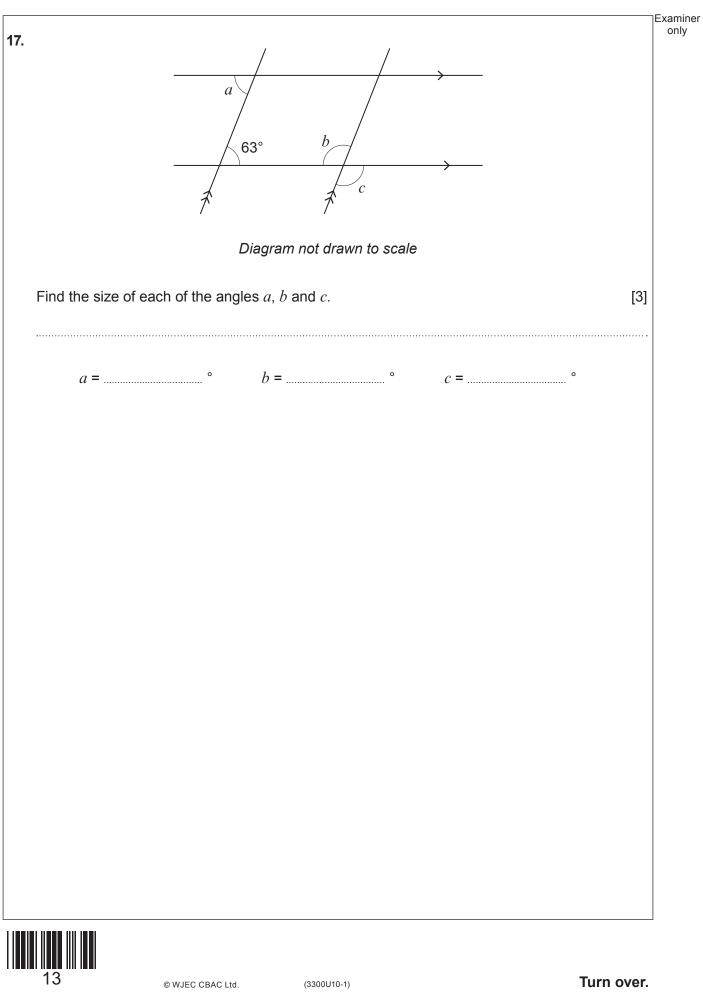
13.	(a)	Solve the ec	quation $3x - 10 =$	17.			[2]
	(b)	Simplify 6 <i>f</i>	f - 4g + 2f - 9g.				[2]
14.	(a)	Which of the Circle the co 7 lb	e following is near prrect answer. 11 lb	rest in mass to 51 151b	‹g? 191b	23 lb	[1]
	(b) 100 p	Circle the co	e following is near prrect answer. 125 pints	rest in volume to 150 pints	100 litres? 175 pints	200 pi	[1] nts



15.	Rhian is <i>n</i> years old.	Exami
	Samir is 7 years younger than Rhian. Nigel is twice as old as Samir.	
	Write down an expression, in terms of <i>n</i> , for Nigel's age.	[3]
	Nigel's age	
16.	The mean of four numbers is 7.	
	(a) What is the total of the four numbers?	[1]
	(b) Find a set of four numbers such that:	
	 their mean is 7 their range is 6. 	
	Write your four numbers in the boxes below.	[2]







Two fair spinners are shown below.		
	2 1 3 4	
Spinner A	Spinner B	
In a game, the numbers shown by the two pointers In the diagram, the score gained would be 2 + 3 = 5 A winning score is 6 or more.	5.	
How many winning scores would you expect when t You must show all your working.	the game is played 60 times?	[5]

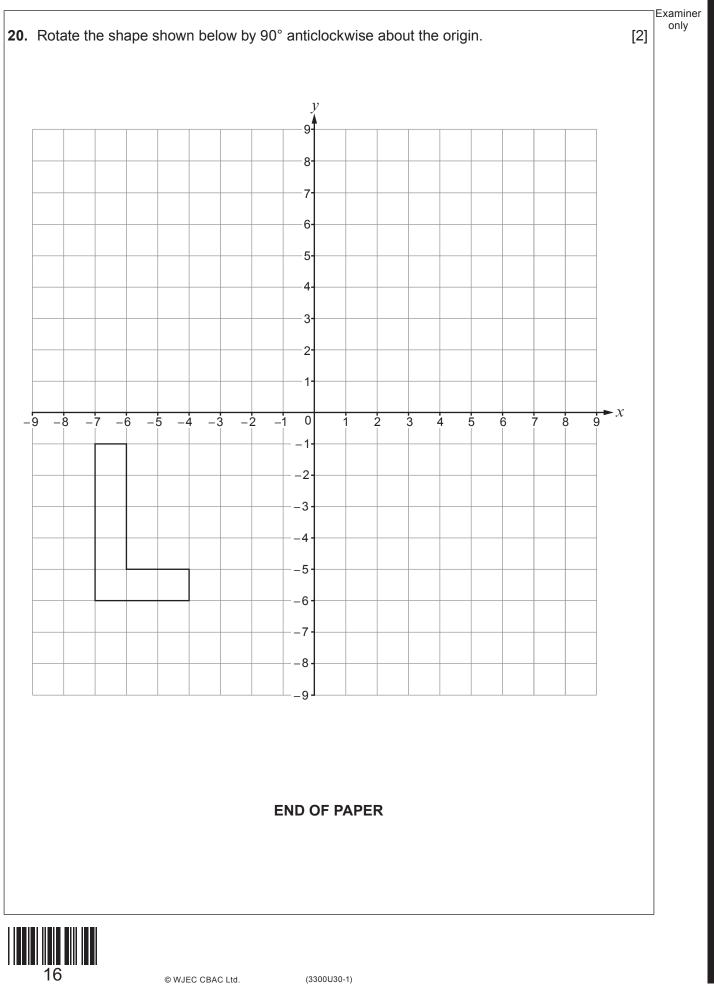


15

19.	(a)	Express 48 as a percentage of 400. [2	Examined only
	(b)	Share £45 in the ratio 8 : 1. [2]
	(c)	£ and £ Express $1 - \frac{1}{2^3}$ as a single fraction in the form $\frac{a}{b}$, where <i>a</i> and <i>b</i> are integers. [2]]
	······	Answer =	
	15	© WJEC CBAC Ltd. (3300U10-1) Turn ove	 r.







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



BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE



BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE



BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE

