Centre Number

First name(s)

wjec cbac

GCSE

3300U10-1

TUESDAY, 24 MAY 2022 – MORNING

MATHEMATICS UNIT 1: NON-CALCULATOR FOUNDATION TIER

1 hour 25 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.

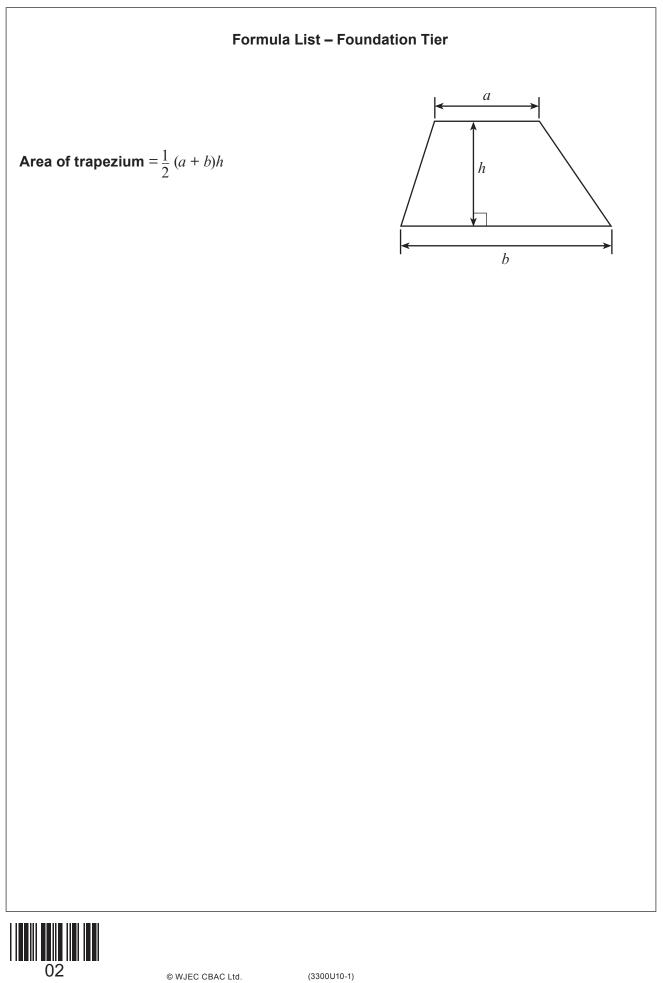
The number of marks is given in brackets at the end of each question or part-question.

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

In question **10**, the assessment will take into account the quality of your organisation and communication.



For Examiner's use only				
Question	Maximum Mark	Mark Awarded		
1.	5			
2.	2			
3.	1			
4.	2			
5.	2			
6.	3			
7.	4			
8.	3			
9.	2			
10.	5			
11.	3			
12.	4			
13.	3			
14.	4			
15.	4			
16.	3			
17.	3			
18.	4			
19.	3			
Total	60			



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Examiner only 1. Write 2376 correct to the nearest ten. (a) [1] (b) Add 643 and 8972. [1] Calculate one fifth of 335. (C) [1] Subtract 516 from 894. (d) [1] Using all of the following digits, write down the smallest possible 4-digit number. (e) [1] 7, 1, 5, 2

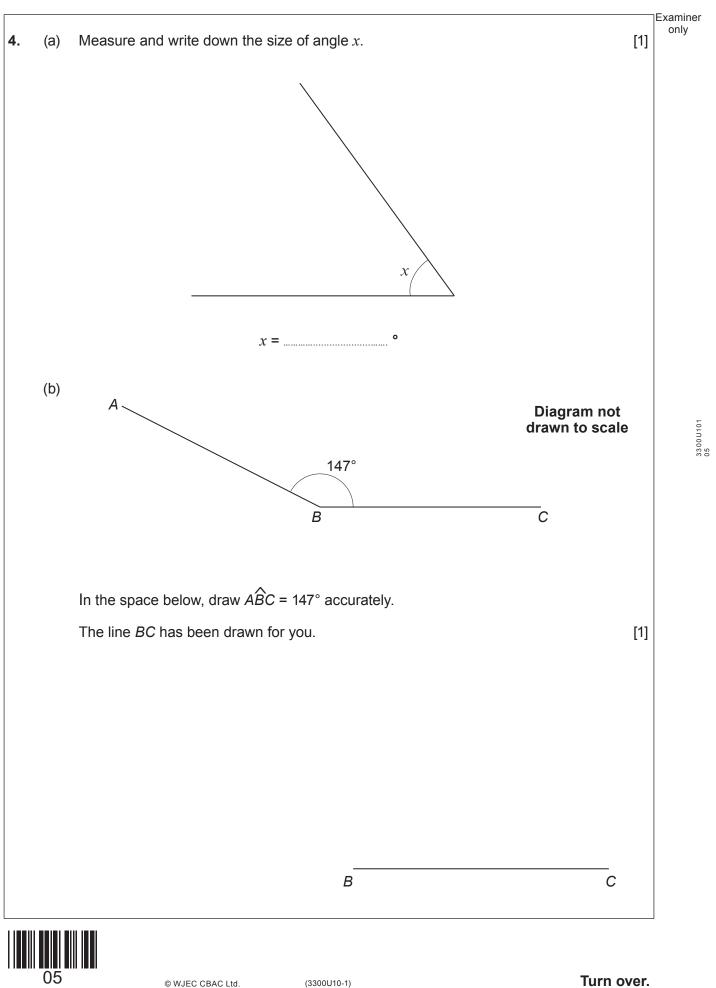
3



3300U101 03

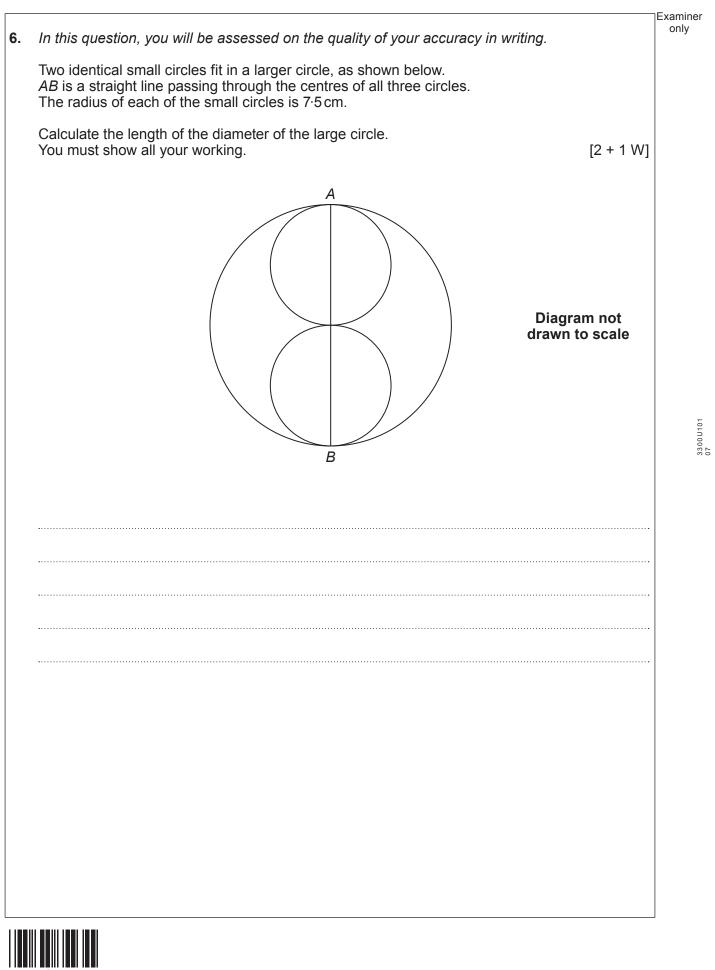
 Describe the ch Circle the corre impossible Megan choose Describe the ch 	nance that Tim ect expression f unlikely s one letter at r nance that Meg ect expression f unlikely	dom from the word TON chooses the letter T. from those given below. an even chance random from the word E gan chooses the letter A from those given below. an even chance res to make <i>MN</i> a line o	likely BANANA.	certain	[1]
Circle the correct impossible Megan choose Describe the ch Circle the correct impossible	ect expression f unlikely s one letter at r nance that Meg ect expression f unlikely	from those given below. an even chance random from the word E gan chooses the letter A from those given below. an even chance	likely SANANA.		
) Megan choose Describe the ch Circle the corre impossible	s one letter at r nance that Meg ect expression f unlikely	random from the word E gan chooses the letter A from those given below. an even chance	SANANA.		[1]
Describe the ch Circle the corre impossible	nance that Meg ect expression f unlikely	an chooses the letter A from those given below. an even chance		certain	[1]
Circle the corre	ect expression f unlikely	rom those given below. an even chance		certain	[1]
			likely	certain	
ade the smallest n	umber of squar	es to make <i>MN</i> a line o			
ade the smallest m	umber of squar	es lo make <i>win</i> à line o	fourmetry		[4]
			i symmetry.		[1]
		М			
			-		
		Ν			





Examiner only How much time has passed between 8:30 a.m. and 2:15 p.m. on the same day? 5. [1] (a) (b) Shade $\frac{2}{3}$ of the shape below. [1]



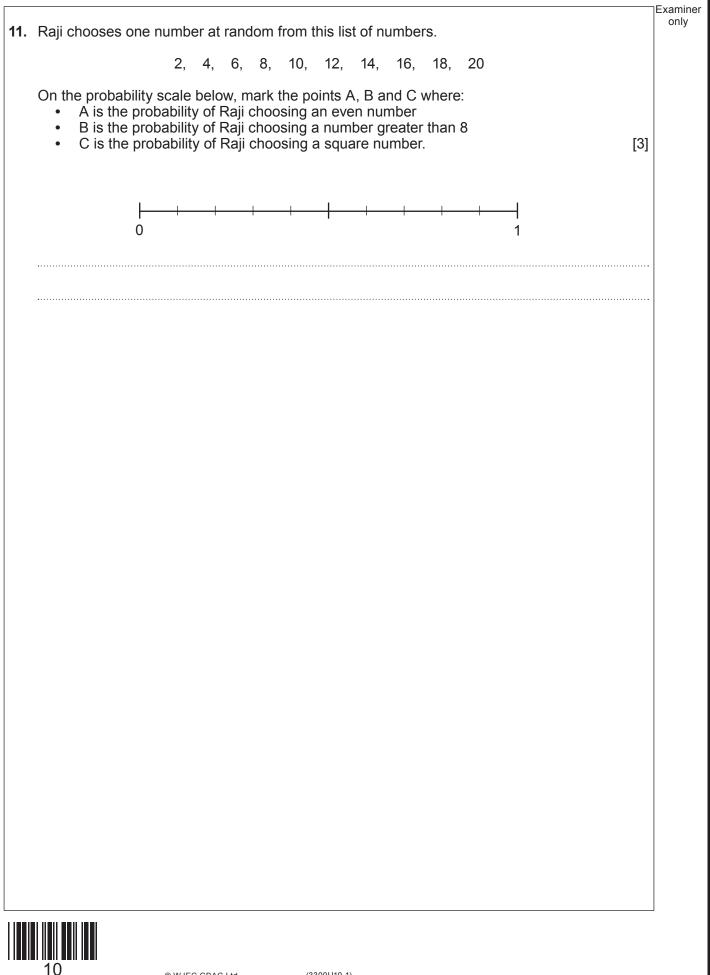


7.	(a)	Simplify $12a - 19a + 10a$.	[1]	Examine only
	(b)	Solve the following equations. (i) $3y = 189$	[1]	
		(ii) $27 - x = 15$	[1]	
	(c)	Write down the value of $\sqrt{36}$.	[1]	
8.	A see A thin Calco	ck contains 5·4 kg of potatoes. cond sack contains 3·08 kg of potatoes. rd sack contains 2·2 lb (pounds) of potatoes. ulate the total mass of these potatoes. your answer in kilograms .	[3]	

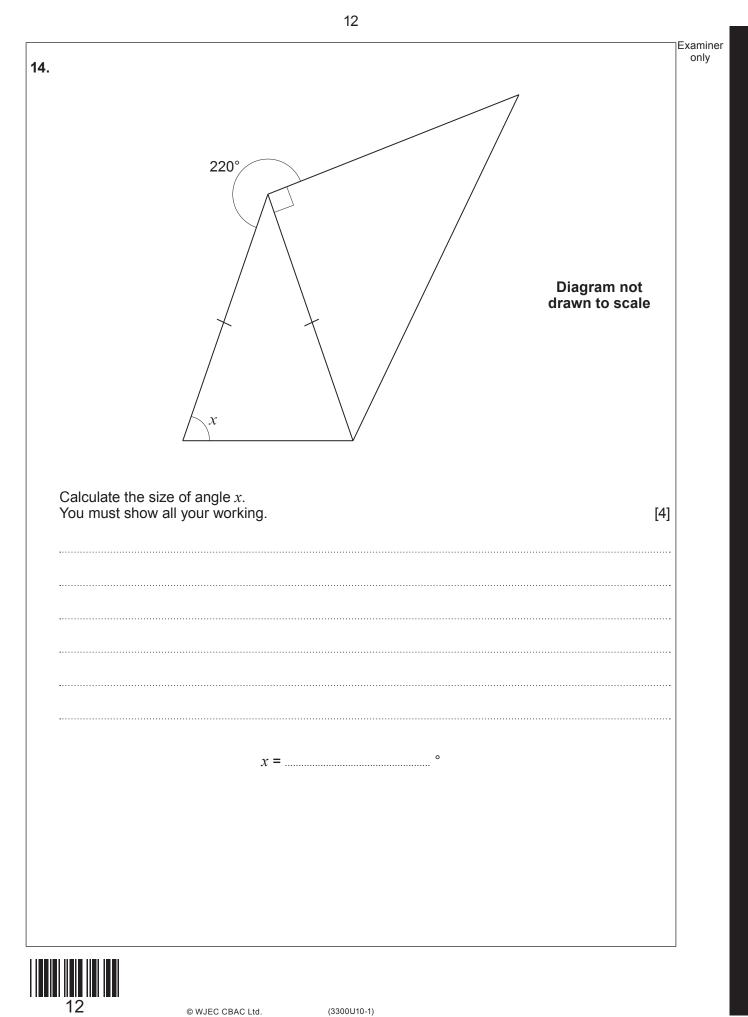


9.	Complete the diagram so that the grid has rotational symmetry of order 4 about the centre, •. [2]	Examiner only
10.	In this question, you will be assessed on the quality of your organisation and communication. A bucket can hold 4000 ml of water. A jug can hold 2.5 litres of water. An empty tank has a capacity of 17 litres. The tank is filled to the top using a combination of full buckets and full jugs of water. How many full buckets and full jugs must be used to fill the tank exactly? You must show all your working. [4 + 1 OC]	3300U101 09
	Number of full buckets Number of full jugs	



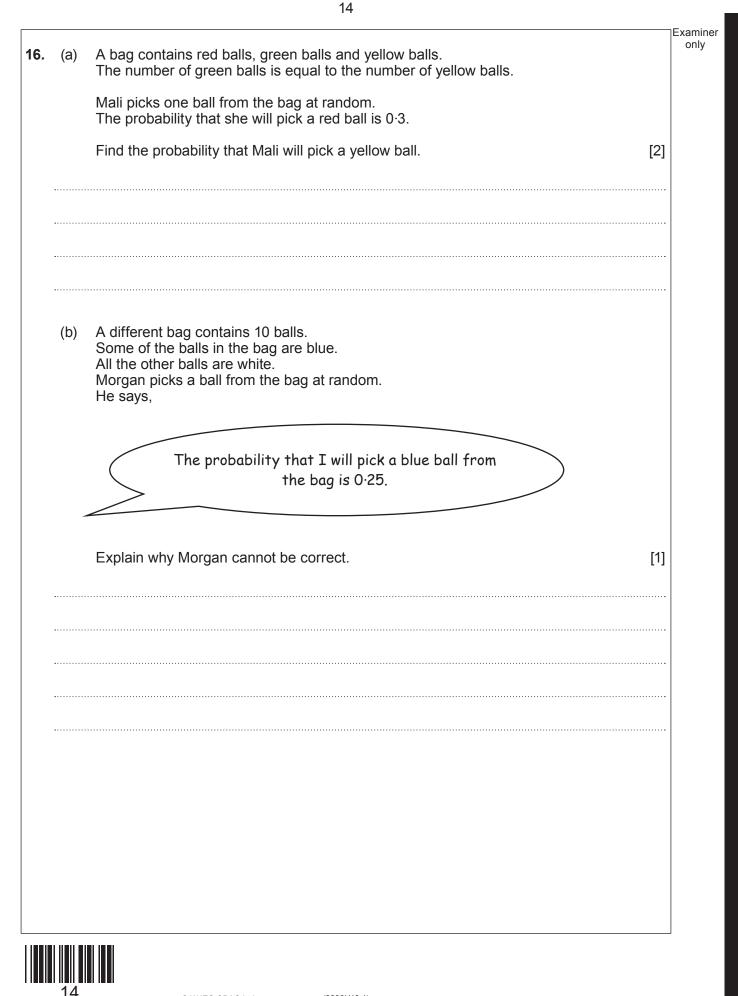


I 2 . Ca	alculate each o	f the following.		Ex
(a	a) $3^2 \times 2^3$			[2]
·····				
(b)) −124÷4			[1]
(C	c) 15% of 28	0		[1]
••••••				
3. Wr	rite 0·3, <mark>8</mark> and	d 31% in ascending order.		
Yo	ou must show a	all your working.		[3]
•••••	·····			
	Smalles	t value	Greatest value	

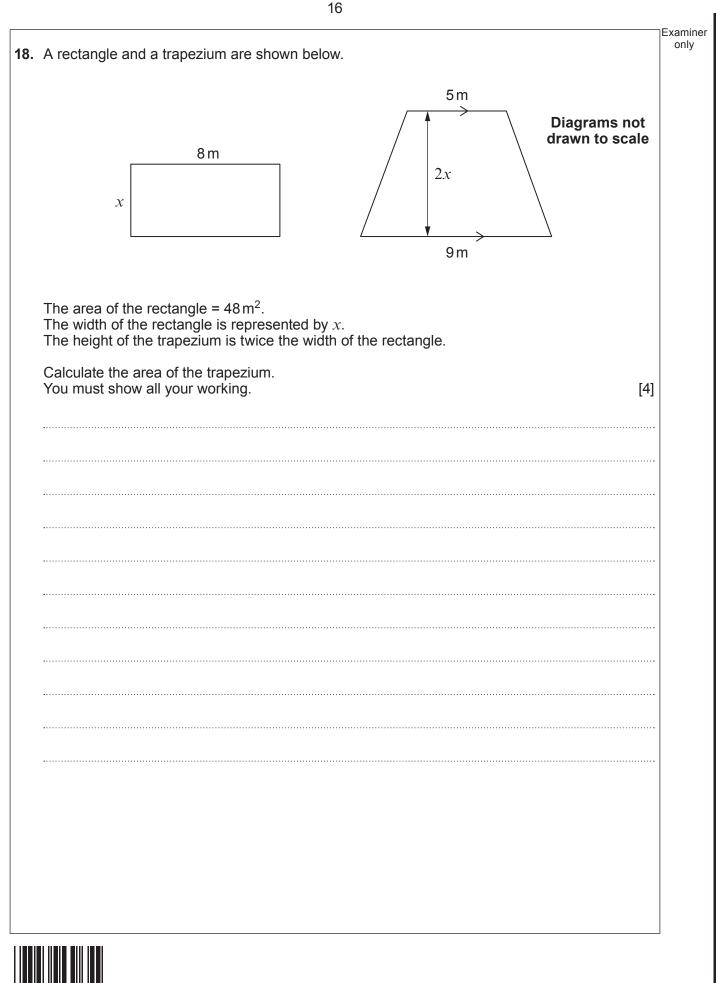


Examiner only Find a whole number value of *n*, so that 7n-9 is a multiple of 4. 15. (a) You must show all your working. [2] When $n = \dots, 7n-9$ is a multiple of 4. Find a whole number value of *n*, so that 3n-5 is a prime number. (b) You must show all your working. [2] When $n = \dots, 3n-5$ is a prime number.

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		Examin
Solve the following equation.	[3]	only
$8x - 38 = 1^{2}$	7 - 3x	
15 © WJEC CBAC Ltd. (3300U10-1	Turn over.	
	8x-38 = 1	8x-38=17-3x



9.	 Write down four whole numbers so that: they are all between 1 and 15 inclusive they have a mode of 7 they have a median value of 8.5 their mean is 9. 	Exa
	Write your numbers in the boxes below.	[3]
	END OF PAPER	



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