Centre Number

First name(s)

wjec

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  $\pi$  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 Ex	aminer's us	e 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	



1.	(a)	Write the number sixty thousand and forty-three in figures.	[1]	Examiner only
	(b)	Write down the value of the 7 in the number 137 520.	[1]	
	(c)	Divide 504 by 8.	[1]	
		Subtract 394 from 800.	[1]	5
	(e)	Multiply 93 by 7.	[1]	3300U1
	03	© WJEC CBAC Ltd. (3300U10-1)	Turn over.	



4.	(a)	Billy thinks	of a number				E	xaminer only
	(0)	Billy halves His answer	his number. is 58.					
		What numb	er did Billy think o	of?			[1]	
	(b)	Siân thinks Siân square Her answer What numb	of a different num es her number. r is 9. per did Siân think o	nber. of?			[1]	
	(c)	Calculate 4	0% of 120.				[2]	
	······							3300U101
5.	(a)	Which of th Circle the c	e following is equ orrect answer.	al to 0·5kg?			[1]	
		50 mg	500 g	500 mg	5 mg	50 g		
	(b)	Which of th Circle the c	e following is equ orrect answer.	al to 700 cm?			[1]	
		7 m	7 km	0·7 m	0·07 km	70 m		

05

Turn over.

<ul> <li>In this question, you will be assessed on the quality of your or accuracy in writing.</li> </ul>	rganisation, communication and
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 on What is the total length of these rods? You must show all your working.	e straight line. [4 + 2 OCW]













1. Write $\frac{2}{5}$ , 9%	and 0.3 in ascending order.	
You must sho	ow all your working.	[3]
·····		
	Smallest value Greatest value	
2. The area of a	a rectangle is 80 cm <sup>2</sup> .	
	$\Lambda reg = 00 \text{ sm}^2$	
	Area = 80 cm <sup>2</sup>	
	Diagram not drawn to scale	
The length of	f the rectangle is 5 times its width.	
Calculate the	e length and width of the rectangle.	[2]
·····		
•••••		



(a)	Solve the equ	uation $3x - 10 =$	17.			[2]
(b)	Simplify 6f -	-4g+2f-9g.				[2]
(a)	Which of the Circle the cor 7 lb	following is nea rrect answer. 11 lb	rest in mass to 5 kg 15 lb	ј? 191b	23lb	[1]
(b) 100 p	Which of the Circle the con	following is nea rrect answer. 125 pints	rest in volume to 10 150 pints	00 litres? 175 pints	200 pin	[1] ts
	(a) (b) (a) (b) 100 p	<ul> <li>(a) Solve the equation of the control of t</li></ul>	(a) Solve the equation $3x-10 =$ (b) Simplify $6f - 4g + 2f - 9g$ . (a) Which of the following is near Circle the correct answer. 7 lb 11 lb (b) Which of the following is near Circle the correct answer. 100 pints 125 pints	(a) Solve the equation $3x - 10 = 17$ .         (b) Simplify $6f - 4g + 2f - 9g$ .         (a) Which of the following is nearest in mass to 5 kg Circle the correct answer.         7 lb       11 lb         11 lb       15 lb         (b) Which of the following is nearest in volume to 11 Circle the correct answer.         100 pints       125 pints	(a) Solve the equation $3x - 10 = 17$ .         (b) Simplify $6f - 4g + 2f - 9g$ .         (a) Which of the following is nearest in mass to 5 kg? Circle the correct answer.         7 lb       11 lb       15 lb       19 lb         (b) Which of the following is nearest in volume to 100 litres? Circle the correct answer.         100 pints       125 pints       150 pints       175 pints	(a) Solve the equation $3x - 10 = 17$ .         (b) Simplify $6f - 4g + 2f - 9g$ .         (a) Which of the following is nearest in mass to 5kg?         Circle the correct answer.         7 lb       11 lb         15 lb       19 lb         (b) Which of the following is nearest in volume to 100 litres?         Circle the correct answer.         100 pints       125 pints         150 pints       175 pints         200 pin



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





		2 1	
	Spinner A	Spinner B	
In a game, ti In the diagra	he numbers shown by the two am, the score gained would be	pointers are added together. 2 + 3 = 5.	
A winning so	core is 6 or more.		
How many v You must sh	vinning scores would you expension all your working.	ect when the game is played 60 times?	[5]
·····			
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		

9			
<b>)</b> .	(a)	Express 48 as a percentage of 400.	[2]
	•••••		
	•••••		
	•••••		
	(b)	Share £45 in the ratio 8 : 1.	[2]
	•••••		
	•••••		
	•••••		
		f and f	
		1	
	(C)	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 =	



estion nber	Additional page, if required. Write the question number(s) in the left-hand margin.	Examin only
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