Centre Number

First name(s)

wjec

GCSE 3300U10-1

A21-3300U10-1

### **MONDAY, 8 NOVEMBER 2021 – 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  $\pi$  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 **9**, 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.	6					
2.	2					
3.	3					
4.	2					
5.	4					
6.	2					
7.	2					
8.	3					
9.	6					
10.	5					
11.	3					
12.	3					
13.	2					
14.	3					
15.	5					
16.	3					
17.	3					
18.	3					
Total	60					



Examiner only Write 95048 in words. 1. (a) [1] (b) Find the sum of 872 and 59. [1] ..... (C) Multiply 250 by 5. [1] ..... (*d*) Work out  $\frac{1}{3}$  of 624. [1] (e) Write down all the factors of 18. [2] ..... The factors of 18 are





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Turn over.

5	(2)	The mass of 1 litre of water is 1 kg		Examiner only
5.	( <i>a)</i>	What is the mass of 4.3 litres of water? Write your answer in grams.		[2]
	•••••			
	•••••			
		Mass =	g	
	(b)	A rope is 3 m long. It is cut into 6 equal pieces.		
		What is the length of each piece of rope? Write your answer in centimetres.		[2]
	••••••			
	••••••			
		Length =	cm	
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6	<ul> <li>Meic has a bag of 20 coloured balls.</li> <li>14 of the balls are yellow, 4 are blue and the rest are red.</li> <li>Meic chooses a ball at random from his bag.</li> <li>On the probability scale below, mark the points A and B where:</li> <li>A is the probability of Meic choosing a yellow ball,</li> </ul>					
	B is the probability of Meic choosing a green ball.					
		3300U101 07				





A square has the same perimeter as this rectangle.	
Calculate the length of a side of the square. You must show all your working.	[4 + 2 OCW]







A cuboid measures 5 cm by 3 cm by 2 cm.	on
Calculate the volume of the cuboid. Give your answer in cm <sup>3</sup> . [2	2]
Volumo – am <sup>3</sup>	
A number <i>n</i> is added to the square root of 81. The answer is equal to 7 squared.	
What is the value of n?   [3]	3]
<i>n</i> =	
	A cuboid measures 5 cm by 3 cm by 2 cm. Calculate the volume of the cuboid. Give your answer in cm <sup>3</sup> . Volume = cm <sup>3</sup> A number <i>n</i> is added to the square root of 81. The answer is equal to 7 squared. What is the value of <i>n</i> ?

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Six cards si	s are made	name BAI	NGOR.	illes e.y. o.				
	В	A	Ν	G	0	F	२	
In a game, f One card is The letter o	the six card chosen at n the card i	ls are plac random. is noted ar	ed in a ba	g. d is returned	to the bag	g.		
If the card h A card with	nas a letter any other t	on it that i ype of lett	s made us er gains ne	sing only stra o points.	aight lines,	the playe	er gains 10	points.
Leah plays	the game 2	4 times.						
Do you exp You must sl	ect Leah to how all you	score a to r working.	otal of 100	points?				[5]
		i working.						[0]
								······
								······
								······







Examiner only **18.** A car travels 100 miles in 2 hours and 30 minutes. Calculate its average speed in miles per hour. [3] ..... ..... **END OF PAPER** 16

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



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