

GCSE 3300U20-1

WEDNESDAY, 13 NOVEMBER 2019 - MORNING

MATHEMATICS UNIT 2: CALCULATOR-ALLOWED FOUNDATION TIER

1 hour 30 minutes

ADDITIONAL MATERIALS	Question	Maximum Mark	Mark Awarded		
A calculator will be required for this examination.	1.	4			
A ruler, protractor and a pair of compasses may be required.	2.	2			
	3.	2			
INSTRUCTIONS TO CANDIDATES	4.	5			
Use black ink or black ball-point pen. Do not use gel pen or correction fluid.	5.	4			
You may use a pencil for graphs and diagrams only.	6.	2			
Write your name, centre number and candidate number in the spaces at the top of this page.	7.	4			
Answer all the questions in the spaces provided.	8.	2			
If you run out of space, use the additional page at the back	9.	2			
written on the additional page.	10.	6			
Take π as 3·14 or use the π button on your calculator.	11.	4			
	12.	3			
INFORMATION FOR CANDIDATES	13.	3			
You should give details of your method of solution when appropriate.	14.	3			
Unless stated, diagrams are not drawn to scale.	15.	5			
Scale drawing solutions will not be acceptable where you are asked to calculate.	16.	5			
The number of marks is given in brackets at the end of each	17.	6			
question or part-question.	18.	3			
In question 4 , the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing	Total	65			
communication and accuracy in writing.					



For Ex	aminer's us	e only
Question	Maximum Mark	Mark Awarded
1.	4	
2.	2	
3.	2	
4.	5	
5.	4	
6.	2	
7.	4	
8.	2	
9.	2	
10.	6	
11.	4	
12.	3	
13.	3	
14.	3	
15.	5	
16.	5	
17.	6	
18.	3	
Total	65	



1. Co	omplete the calculations belo)W.				[4]
	975	×	74	=		
	834	×		=	43 368	
		÷	43	=	1376	
	5056	÷		=	32	
Sį	bace for working:					
·····						
. (i	a) Write down the first 5 m	ultiples	s of 44.			[1]
	 A number has exactly for Its factors are 1, 3, 11 are What is the number? 	our fac nd the	tors. number itself.			[1]









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		⊐Evaminer
4.	In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.	only
	An equilateral triangle and a square are shown below.	
	14 cm Diagram not drawn to scale	
	The perimeter of the equilateral triangle is equal to the perimeter of the square.	
	You must show all your working. [3 + 2 OCW]	
		1201
	05 © WJEC CBAC Ltd. (3300U20-1) Turn over.	



	Fraction	Decimal	Percentage	
	<u>1</u> 2	0.5	50 %	
	1 10		%	
	25		8%	
<i>(a)</i> C	alculate 3 + 5·4 ² .			[1]
(b) C	Calculate $\frac{\sqrt{2.56}}{4}$.			[1]

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10.	(a)	Fatima writes down three square numbers. The total of the square numbers is 30.	E	only
		Which square numbers did Fatima write down?	[3]	
		The numbers which Fatima wrote are, ,, and		
	(b)	Cadfan writes down four positive odd numbers.		
		The median of his numbers is 6.		
		Which odd numbers could Cadfan have written down?	[3]	
		i ne numbers Cadtan could nave written are		



11.	(a)	Calculate $12\frac{1}{2}\%$ of 1176.	[2]	Examiner only
	······			
	(b)	Evaluate $\frac{4\cdot 3 \times 8\cdot 6}{9\cdot 3 - 1\cdot 4}$. Give your answer correct to 1 decimal place.	[2]	
	·····			
	10 10	© WJEC CBAC Ltd. (3300U20-1)		







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14.	(a)	A person is chos Which is the bes March? Circle the correc	en at random. st estimate for t answer.	the probability th	nat this person wa	as born in the m	only
		$\frac{1}{30}$	<u>1</u> 31	<u>12</u> 365	<u>1</u> 12	<u>12</u> 31	
	(b)	A box contains fo One card is blue A card is drawn f	our coloured ca , one is red, or from the box at	ards. le is green and c random.	one is white.		
		Which letter, A , E Circle the correc	3 , C , D or E , re t letter on the μ	presents the proprobability scale	bability that the ca below.	ard drawn is not	blue? [1]
		▲ ∟ 0	B	C	D	E 1	







15.	A task takes 6 hours 15 minutes to complete.	Examin only
	$\frac{2}{5}$ of this time is spent on planning.	
	How long was spent on the rest of the task ? Give your answer in hours and minutes.	
	You must show all your working. [5]	



	Passengers 60 years old		Aberystwyth	_
	Passengers 60 years old			
	and over	323	217	
	Passengers under 60 years old	122	58	
Pass	sengers 60 years old =	and over : passe	ngers under 60 ye	ears old
	ese passengers was	selected at rando	om.	



-			Examiner only
17.	(a)	Solve the following equation. [3]	
		4(3x+2) = 12	
	•••••		
	•••••		
	•••••		
	•••••		
	(b)	Write down an expression for the total cost of 3 bananas at x pence each, and 5 apples	
		at $2x$ pence each.	
	•••••		
	·····		



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

