Surname

Other Names

Centre Number Candidate Number

0

GCSE



3300U20-1

MATHEMATICS UNIT 2: CALCULATOR-ALLOWED FOUNDATION TIER

MONDAY, 13 NOVEMBER 2017 - MORNING

1 hour 30 minutes

ADDITIONAL MATERIALS

A calculator will be required for 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 continuation page at the back of the booklet. Question numbers must be given for all work written on the continuation page.

Take π as 3.14 or use the π button on your calculator.

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 **5**, 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.	8				
2.	2				
3.	2				
4.	2				
5.	5				
6.	3				
7.	6				
8.	2				
9.	2				
10.	8				
11.	4				
12.	5				
13.	3				
14.	5				
15.	3				
16.	5				
Total	65				

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1.	(a)	Write twenty million in figures.				[1]	Examiner only
	(b)	Write 2.46 in words.				[1]	
	(c)	Insert one pair of brackets into	the calculat	tion below	to make it correct.	[1]	
	(d)	5 × In each of the following quest numbers. (i) What is the largest numb	4 + 2 ions, use al per that can	2 = 30 I of the dig be made?	jits 5, 1, 3 and 6 to make	four-digit [1]	
		(ii) What is the largest numb	per that can	be made v	which is divisible by 2?	[1]	300U201
	(e)	Write down the remainder whe	n 488 is div	ided by 16		[1]	n
	(f)	Use either the symbol < or >	to make ea	ch stateme	nt true.	[2]	
		5		2			
		4.3	3	4·25			
		-8	3	. 4			
		-7		-6			



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5.	In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.	only
	A class has 32 pupils. 18 are boys. The others are girls.	
	12 pupils from this class went on a trip. One of these 12 pupils is chosen at random. There is an even chance that the chosen pupil is a girl.	
	How many girls stayed in class? [3 + 2 OCW]	
	The number of girls who stayed in class is	
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Turn over.

(a)	Kian thinks of a number. A quarter of his number is 37.	
	What is 10% of Kian's number? You must show all your working.	[3]
••••••		
•••••	10% of Kian's number is	
(b)	Sophie thinks of a number between 1 and 9. She multiplies her number by six and then adds 25. Her final answer can be divided exactly by 7.	
	What number did Sophie first think of?	[3]
••••••		
••••••		
••••••		
	Sophie's number is	



				9				
8.	Write	4·47367 correc	t to:				E	Examine only
	(a)	1 decimal plac	е				[1]	
	(b)	the nearest wh	ole number				[1]	
9.	Circle	the correct ans $x + x + x + x$	swer for each of $+2x$ can be s	the following stat	ements.		[1]	
	(4)	6 <i>x</i>	x^6	$2x^6$	6 ^{<i>x</i>}	5 <i>x</i>	[,]	
	(b)	When $t = 185$,	the value of $21t$	is			[1]	
		185 <i>t</i>	21 185	18 521	206	3885		





Examiner only Calculate 8% of £3.25. [3] **10**. *(a)* (b) Evaluate $0.65 \times 280 - \frac{2}{9}$ of 513. [3] -----(c) Calculate $3.5^2 - \sqrt{8.6}$. Give your answer correct to 2 decimal places. [2]

(a)	What is the difference between the following times?	i Exa o
	'07:30 on 1st November 2017' and '13:20 on 3rd November 2017'	
	Give your answer in days, hours and minutes.	[2]
	days hours minutes	
(b)	Divide 16 hours 20 minutes by 5.	101
•••••		
	hours	
	nours minutes	
	(b)	(a) What is the difference between the following times? '07:30 on 1st November 2017' and '13:20 on 3rd November 2017' Give your answer in days, hours and minutes.



		[]	[]	[]	[]	
11	23	5	9	18	20	
	A number is to b	oe written on th	he blank card.			
	The mode and t	he median of a	all seven num	pers are both th	e same.	
	Find one possib	le number that	t can be writte	n on the blank o	card.	[1]
		Number	on card			
(b)	One extra numb	per is added to	the following	list of three num	ibers.	
(b)	One extra numb	per is added to	the following 6 8	list of three nurr 13	ibers.	
(b)	One extra numb	per is added to e new list of fo	the following 6 8 our numbers i	list of three num 13 s 1 less than th	ibers. he mean of the o	riginal three
(b)	One extra numb The mean of th numbers. What number w	per is added to e new list of fo as added to th	the following 6 8 our numbers i ne list?	list of three num 13 s 1 less than th	ibers. ie mean of the o	riginal three [4]
(b)	One extra numb The mean of th numbers. What number w	per is added to e new list of fo as added to th	the following 6 8 our numbers i ne list?	list of three num 13 s 1 less than th	ibers. ie mean of the o	riginal three [4]
(b)	One extra numb The mean of th numbers. What number w	per is added to e new list of fo as added to th	the following 6 8 our numbers i ne list?	list of three num 13 s 1 less than th	ibers. ie mean of the o	riginal three [4]
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(b)	One extra numb The mean of th numbers. What number w	er is added to e new list of fo as added to th	the following 6 8 our numbers i he list?	list of three num 13 s 1 less than th	ibers. ie mean of the o	riginal three [4]
(b)	One extra numb The mean of th numbers. What number w	e new list of fo	the following 6 8 our numbers i ne list?	list of three num 13 s 1 less than th	ibers. he mean of the o	riginal three [4]
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(b)	One extra numb The mean of th numbers. What number w	e new list of fo as added to th Number	the following 6 8 our numbers i he list?	list of three num 13 s 1 less than th	ibers. ie mean of the o	riginal three [4]
(b)	One extra numb The mean of th numbers. What number w	e new list of fo as added to th	the following 6 8 our numbers i he list?	list of three num 13 s 1 less than th	ibers.	riginal three [4]



14.	(a)	Express 54 as a percentage of 129. Give your answer to the nearest whole number. [3]	Examiner only
	•••••		
	••••••		
	•••••		
	(b)	Share 25.8 kg in the ratio 5 : 1. [2]	
	•••••		
		kg and kg	

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Y S T R A D G Y N L A I S	
]
In an experiment, the cards are turned face down and rearranged. A card is selected at random and the letter on the card is recorded.	
The experiment is carried out 325 times. How many times would you expect the letter Y to be recorded? [3	3]



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



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