

GCSE 3300U20-1

A22-33001/20-1

WEDNESDAY, 16 NOVEMBER 2022 - MORNING

MATHEMATICS UNIT 2: CALCULATOR-ALLOWED FOUNDATION TIER

1 hour 30 minutes

ADDITIONAL MATERIALS

A calculator will be required for 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 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.

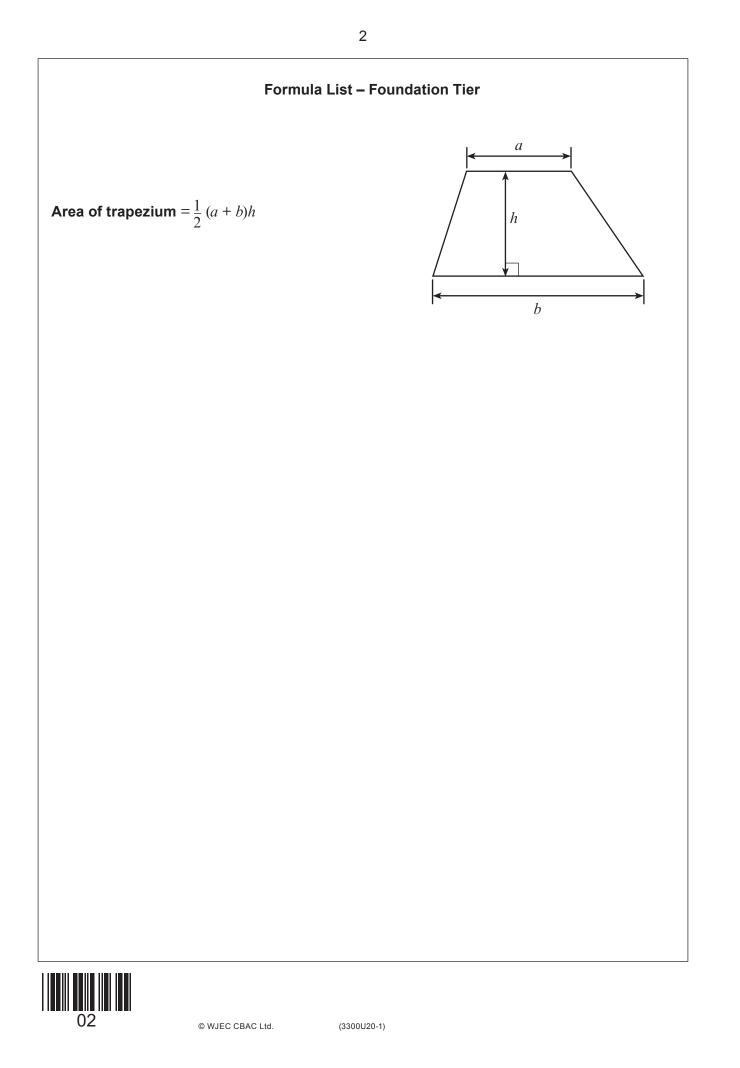
The number of marks is given in brackets at the end of each question or part-question.

In question **5**(c), the assessment will take into account the quality of your linguistic and mathematical accuracy in writing.

In question **12**, the assessment will take into account the quality of your organisation and communication.



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

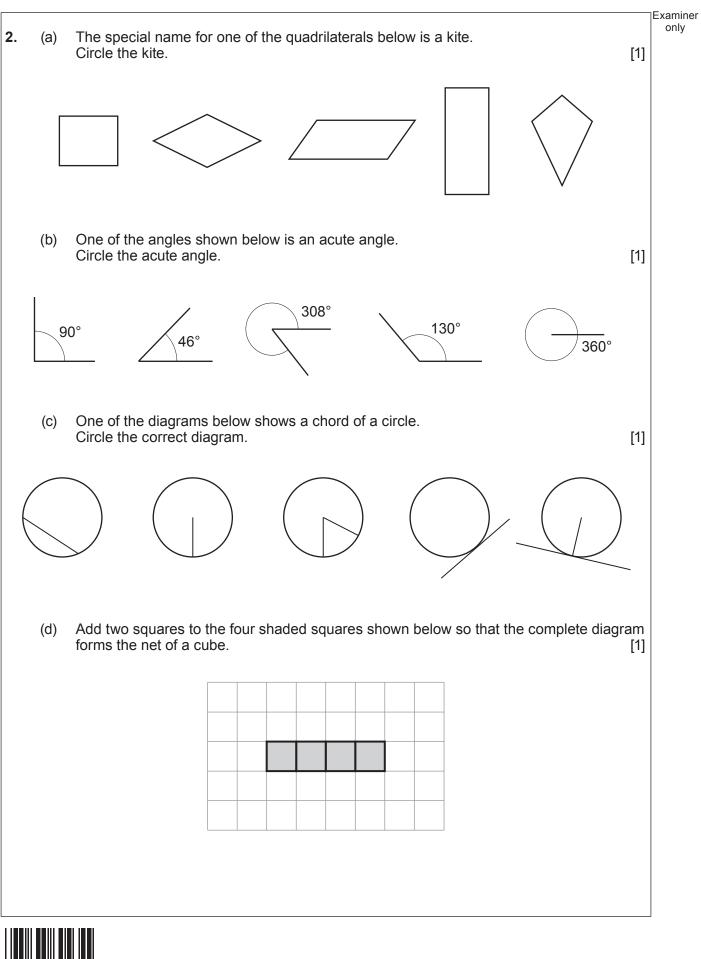


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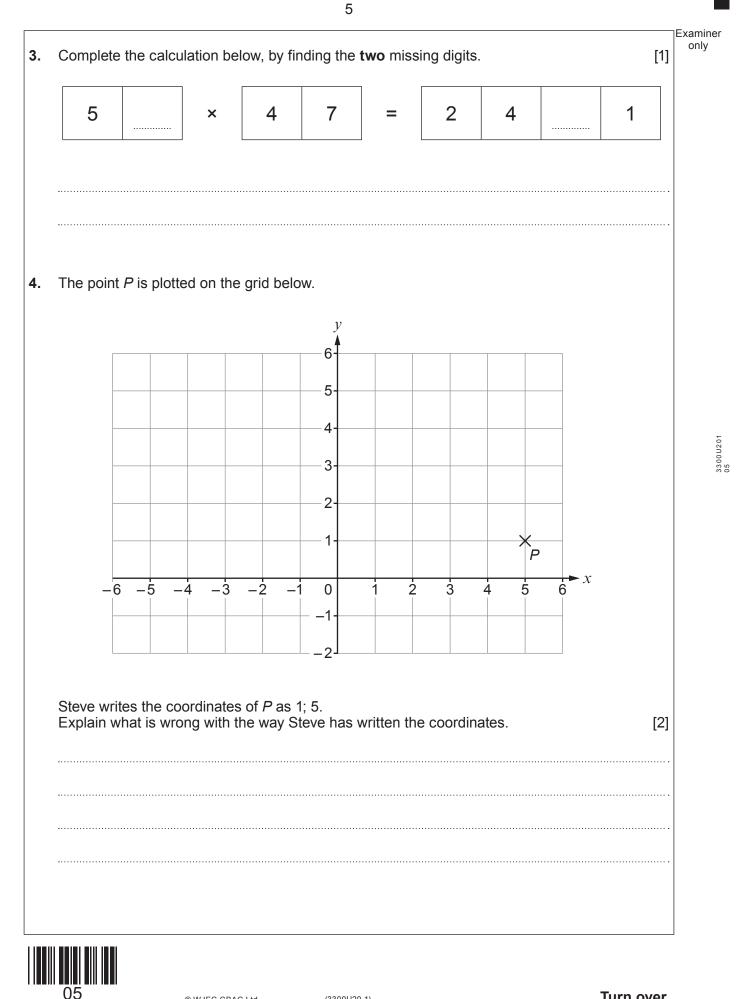
(a)	One of the calculations belo Circle the incorrect calculat				[1]
	78 + 9952 = 10030	875 ÷ 35 = 25	i	3685 – 2852 = 833	
	452×63 = 2	8466 8	9775÷45 =	= 1995	
(b)	One of the numbers below Circle the multiple of 38.	is a multiple of 38			[1]
	2 19	338	388	3838	
(C)	Computers cost £432 each. How many can be bought w	, /ith £9876?			[1]
•••••					
•••••					



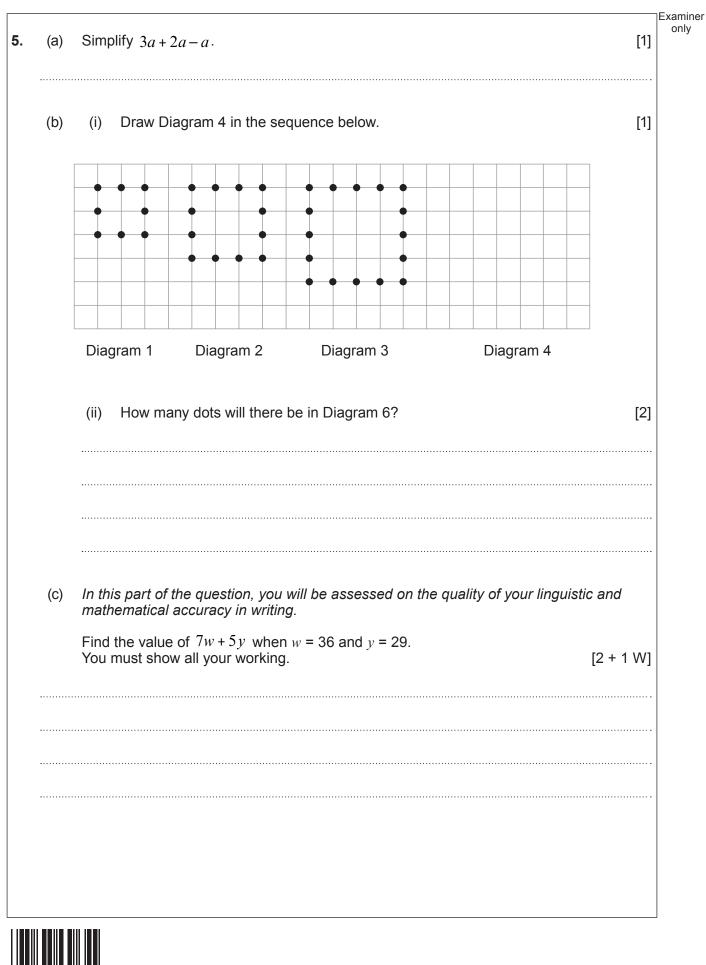




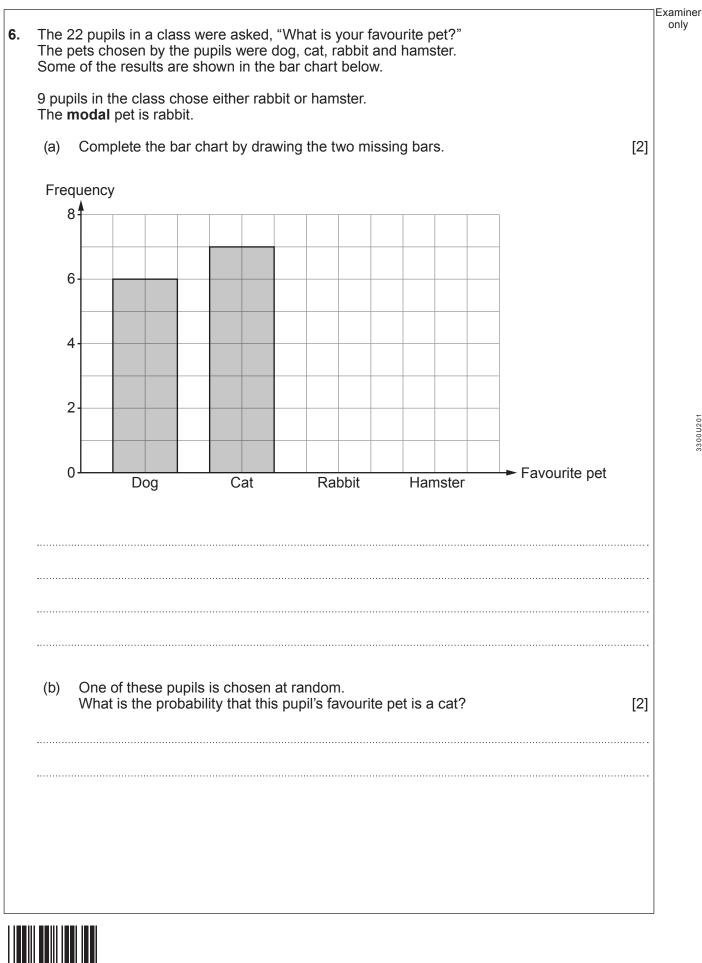
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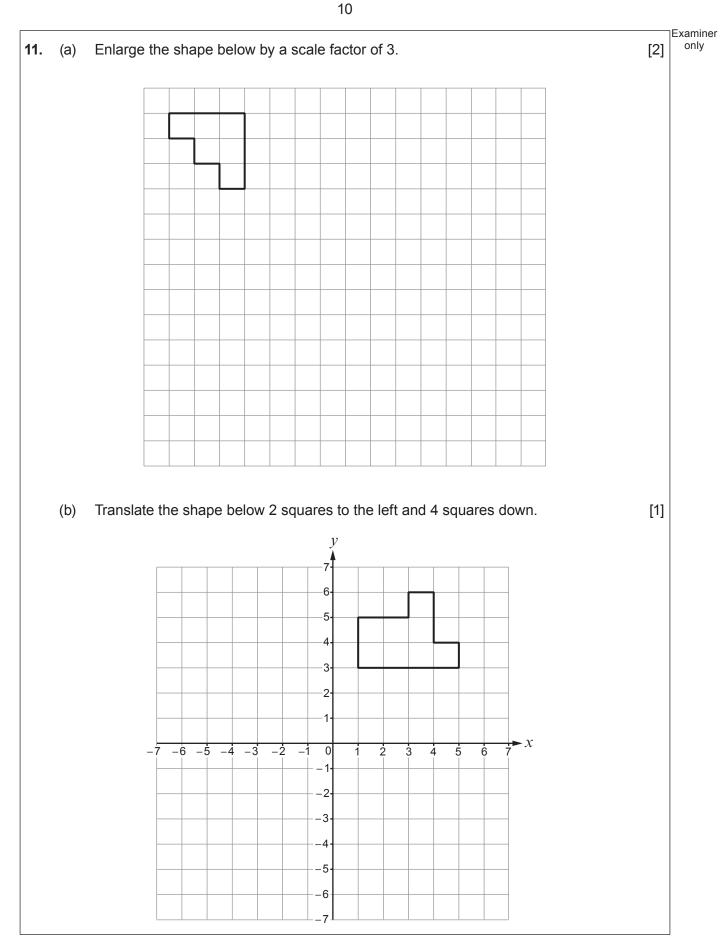
	E
is two factors: 1 and 7.	
e down all the factors of this number.	101
must snow all your working.	[2]
The number is	
The factors of this number are	
culate each of the following.	
2·7 squared	[1]
the square root of 11.56	[1]
60% of 28	
	The factors of this number are



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9.	Shelley thinks of a number.	ľ	Examiner only
	$\frac{1}{5}$ of her number is 46.		
	5 What is Shelley's number?	[2]	
10.	Mark is making an 8-sided spinner. All of the sections on his spinner are identical. Mark is going to label each of the sections with one of three colours: blue (B),		
	yellow (Y) or red (R).		
	 Label the spinner below so that when the spinner is spun: landing on red and landing on blue are equally likely AND 		<u>.</u>
	 it is likely that the spinner lands on yellow. 	[2]	3300U201
	09 © WJEC CBAC Ltd. (3300U20-1)	Turn over.	





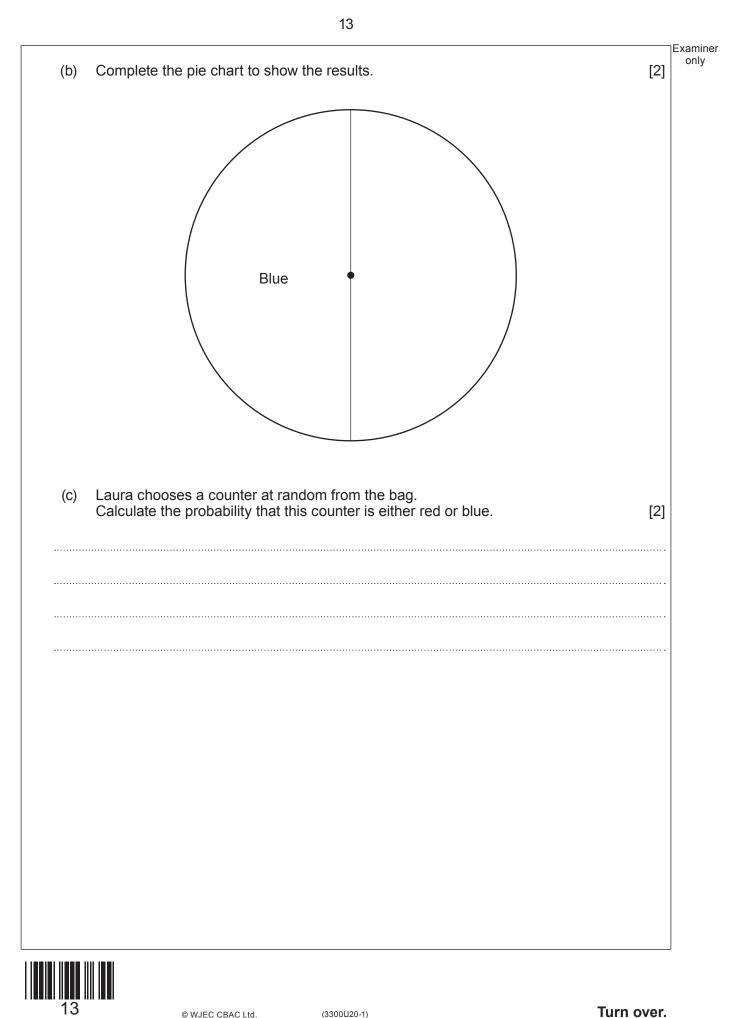


		Examiner
12.	In this question, you will be assessed on the quality of your organisation and communication.	only
	In the diagram below, <i>AF</i> is a straight line.	
	A = B D	
	Diagram not drawn to scale	
	Calculate the size of angle <i>x</i> . You must show all your working. [4 + 1 OC]	
		•
		•
		•
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ne ta	able below show			
		Number of counters	Pie chart angle	
	Red	25		
	Blue		180°	
	Yellow			
		Total = 90		

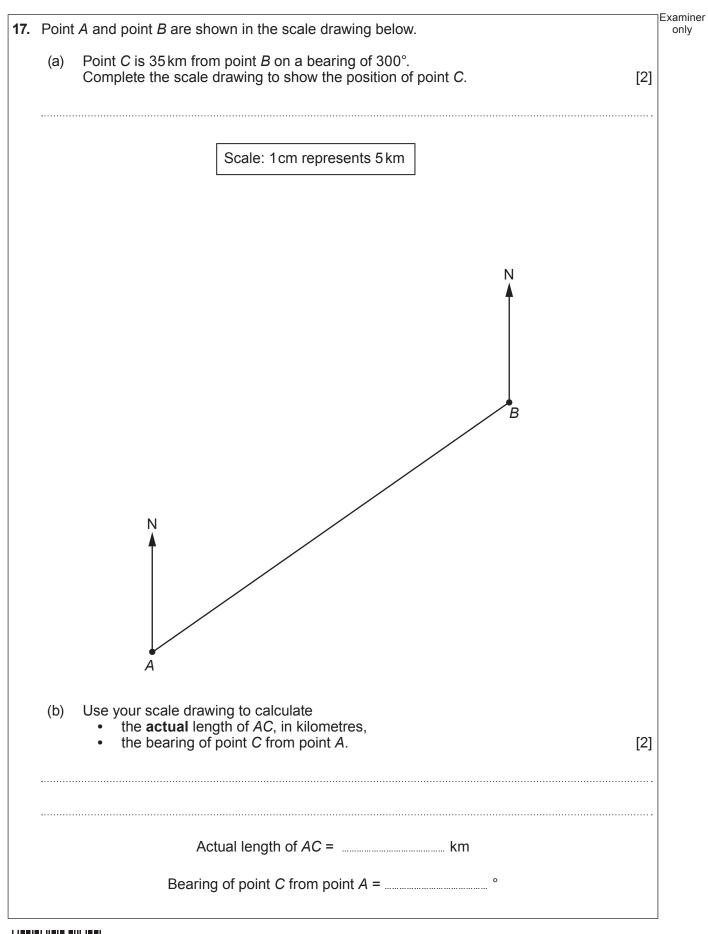




. F	 ind the whole number that satisfies all of the following conditions: It is a whole number between 15 and 35 inclusive. The number is a multiple of 2 but not a multiple of 4. 3 is a factor of this number, but 9 is not a factor of this number. 	Ex
	• 3 is a factor of this number, but 9 is not a factor of this number.	[2]
	The whole number is	
C	Calculate $\frac{15 \cdot 4^2}{14 \cdot 59 - 7 \cdot 67}$, correct to 1 decimal place.	[2]

(a)	One of the pup	oils is chosen at ra	indom.				
Complete the table below to find the probability that the pupil chosen went to Ysgol Bryn.							
		Ysgol Aber	Ysgol Bryn	Ysgol Castell	Ysgol Dewi		
	Probability	0.08		0.2	0.28		
b)	How many of t	the 125 pupils wen	t to Ysgol Dewi?		[2		







		17	
18.	(a)	Express 21.76 as a percentage of 32.	[2]
	•••••		
	•••••		
	(b)	Solve $5t + 3 = 3t + 14$.	[3]
	•••••		
		END OF PAPER	
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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examine only



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