Centre Number

First name(s)

GCSE



3300U20-1

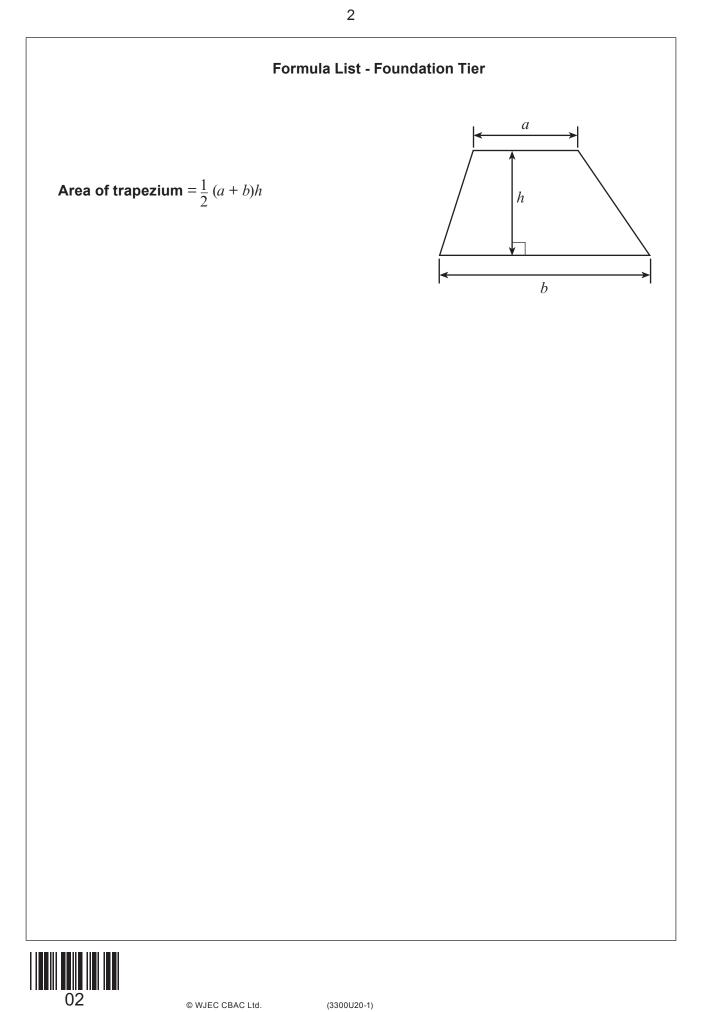
## WEDNESDAY, 13 NOVEMBER 2019 - MORNING

## MATHEMATICS UNIT 2: CALCULATOR-ALLOWED FOUNDATION TIER

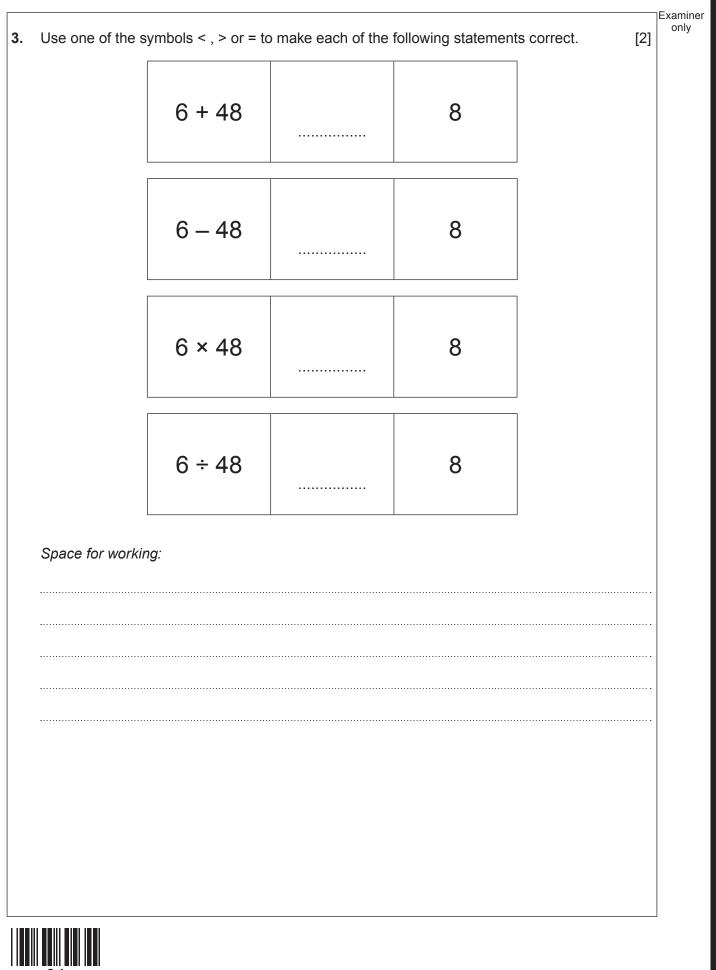
1 hour 30 minutes

	For Ex	aminer's us	e only
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	
INSTRUCTIONS TO CANDIDATES	3.	2	
	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 <b>all</b> the questions in the spaces provided.	8.	2	
If you run out of space, use the additional page at the back	9.	2	
of the booklet. Question numbers must be given for all work written on the additional page.	10.	6	
Take $\pi$ as 3.14 or use the $\pi$ 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 <b>4</b> , the assessment will take into account the quality of your linguistic and mathematical organisation,	Total	65	
communication and accuracy in writing.			





			3			Exam
. Con	nplete the calculations belo	OW.				[4]
	975	×	74	=		
	834	×		=	43 368	
		÷	43	=	1376	
	5056	÷		=	32	
Spa	ce for working:					
•••••						
2. (a)	Write down the first 5 m	ultiples	s of 44.			[1]
(b)	A number has <b>exactly</b> f Its factors are 1, 3, 11 a What is the number?	our fac nd the	tors. number itself.			[1]
03	© WJEC CBAC L	td.	(3300U20-1)		Turn	over.

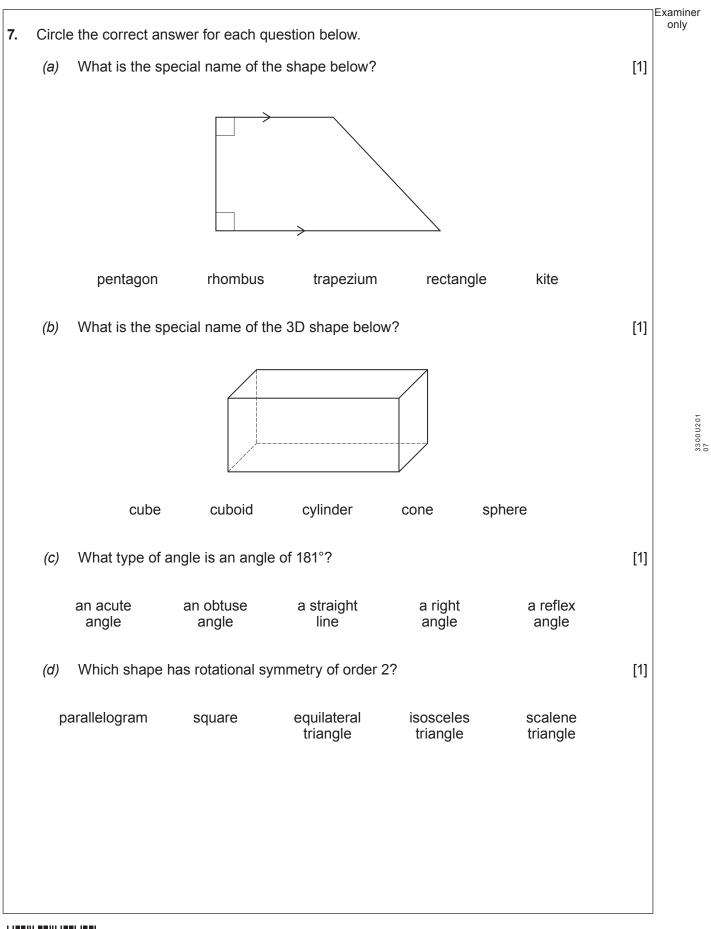




	Exa
In this question, you will be assessed on the quality of your organisation, commu accuracy in writing.	unication and
An equilateral triangle and a square are shown below.	
14 cm Diagram not drawn to scale	
The perimeter of the equilateral triangle is <b>equal to</b> the perimeter of the square.	
Calculate the length of a side of the square. You must show all your working.	[3 + 2 OCW]
	Turn over.

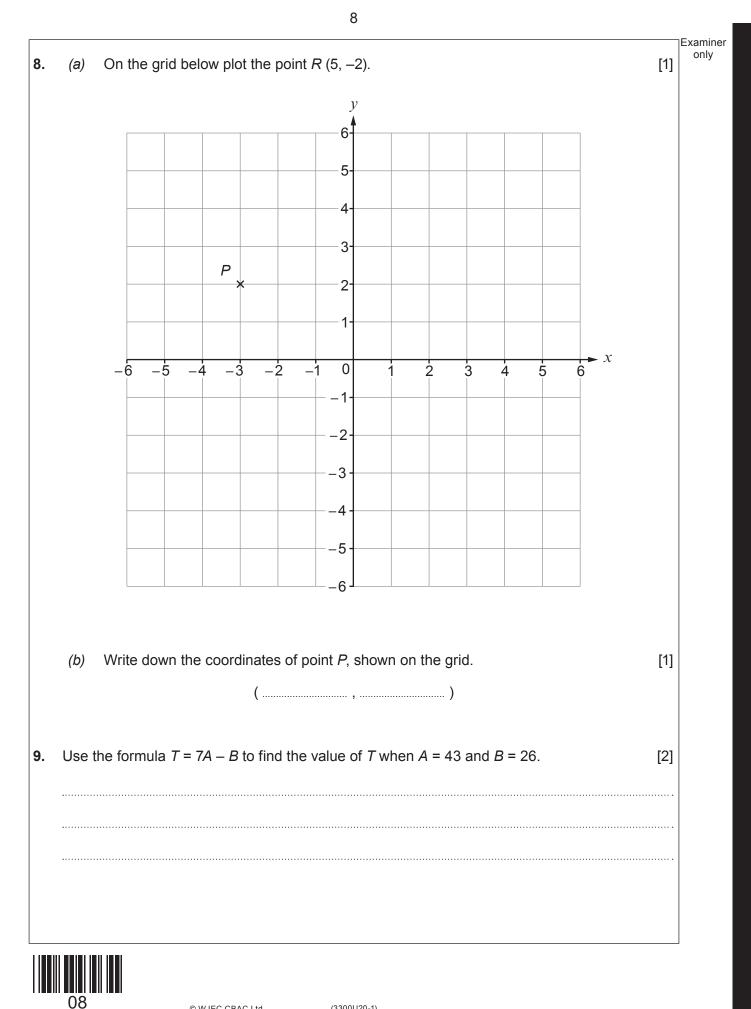
	Fraction	Decimal	Percentage	
	$\frac{1}{2}$	0.5	50%	
	<u>1</u> 10		%	
-	25		8%	







Turn over.

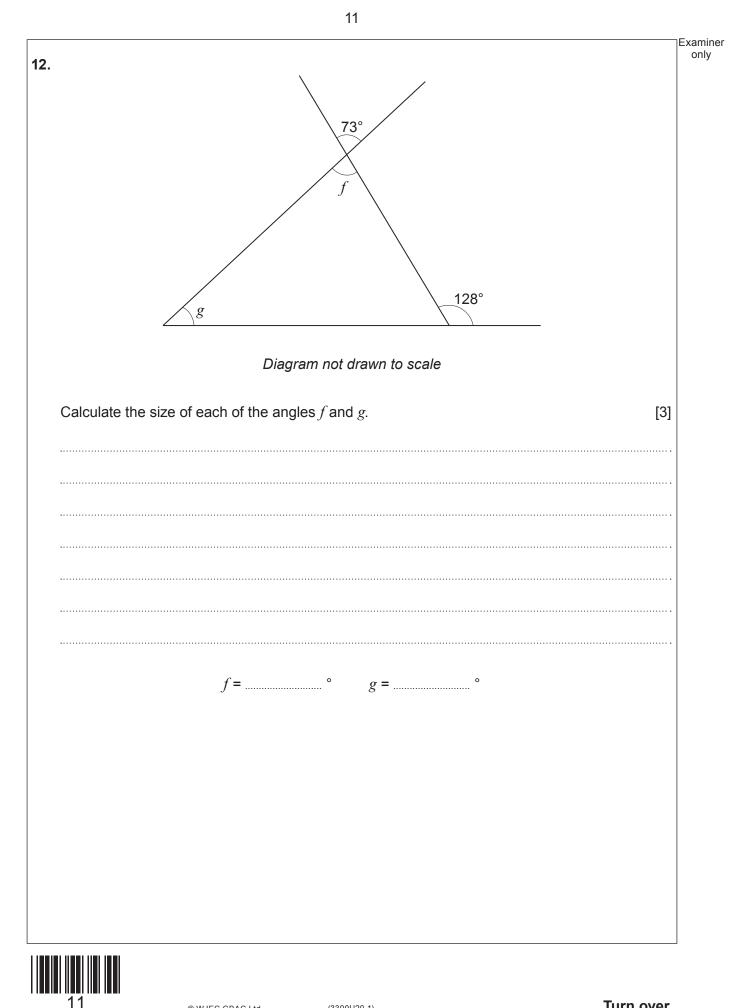


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0.	(a)	Fatima writes down three <b>square</b> numbers. The total of the square numbers is 30.	Examine
		Which square numbers did Fatima write down? [3]	]
	••••••		
		The numbers which Fatima wrote are, ,, and	
	(b)	Cadfan writes down four <b>positive odd</b> numbers.	
		The mode of his numbers is 7. The median of his numbers is 6.	
		Which odd numbers could Cadfan have written down?  [3]	]
	••••••		
	•••••		
			•
	•••••	The numbers Cadfan could have written are,,	



<b>1.</b>		Calculate $12\frac{1}{2}\%$ of 1176.	[2]
		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		



<b>13.</b> Fill in the boxes so that the following addition is correct.	[3]	Examiner only
1     9       7     8     +		
4 1		
Space for working:		
12 © WJEC CBAC Ltd (3300U20-1)		

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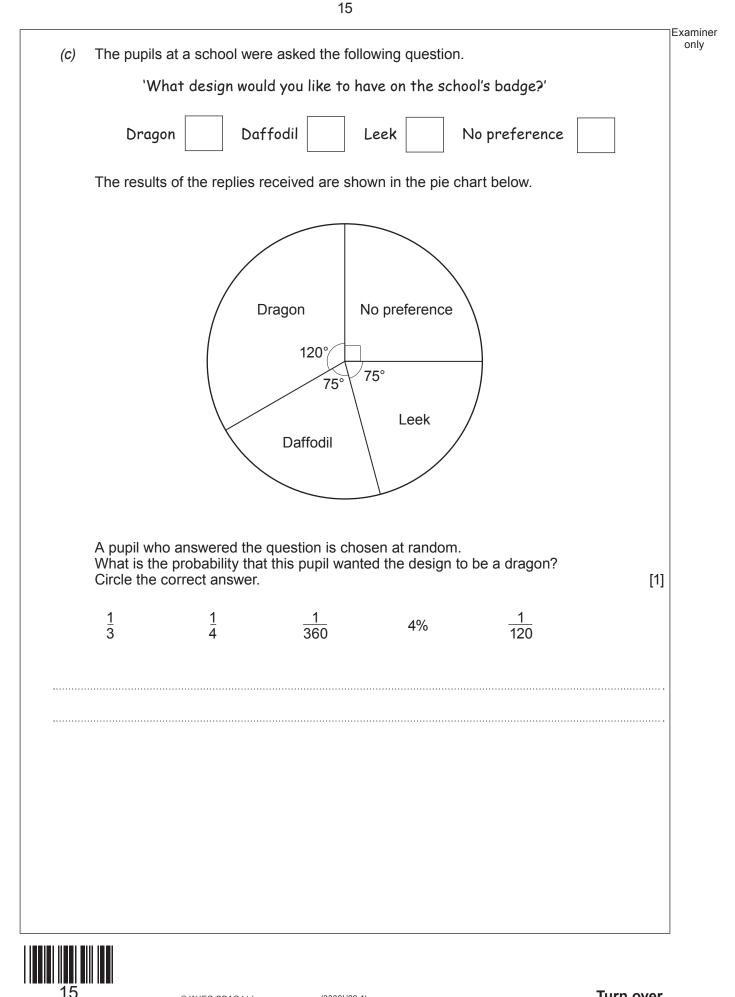
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## PLEASE DO NOT WRITE ON THIS PAGE



		March? Circle the corre	ect answer.				[1]
		<u>1</u> 30	<u>1</u> 31	<u>12</u> 365	<u>1</u> 12	<u>12</u> 31	
(b	<u>́</u> (	One card is blu	four coloured ca le, one is red, or n from the box a	ne is green and	one is white.		
	\ (	Which letter, <b>A</b> Circle the corre	, <b>B</b> , <b>C</b> , <b>D</b> or <b>E</b> , re ect letter on the p	epresents the pr probability scale	obability that the below.	e card drawn is <b>no</b> t	t blue? [1]
		<b>A</b>	B	C	D	E	
		0				1	
•••••							
•••••							••••••





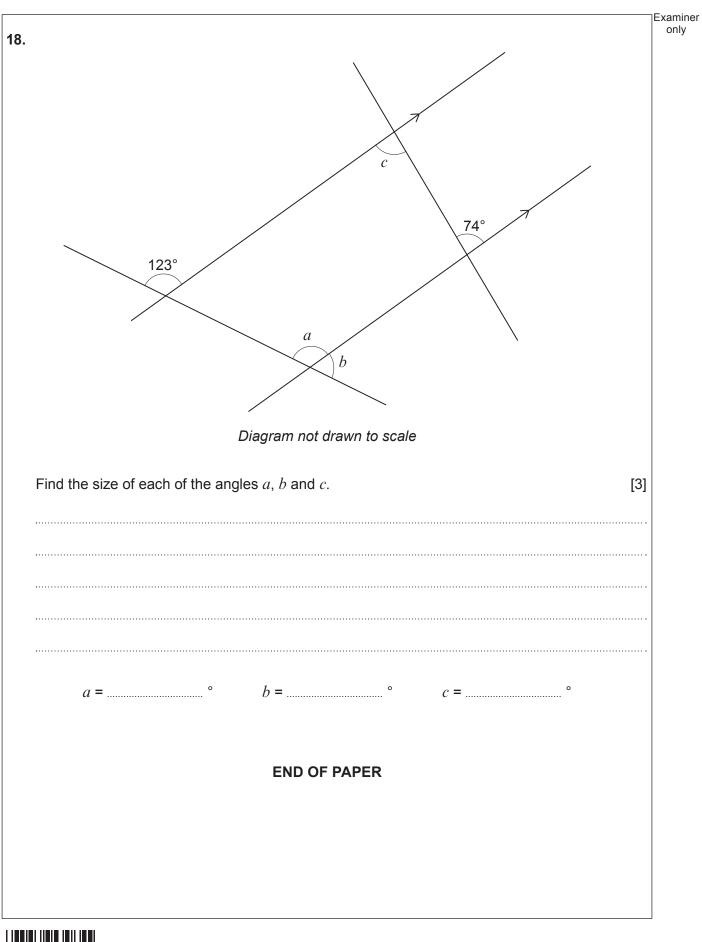
A task takes 6 hours 15 minutes to complete.	E
$\frac{2}{5}$ of this time is spent on planning.	
How long was spent on the <b>rest of the task</b> ? Give your answer in hours and minutes.	
You must show all your working.	[5]



The table belov Tuesday.	v shows the number	of passengers wh	o went to Llandud	no or Aberystwyth last
		Llandudno	Aberystwyth	
	Passengers 60 years old and over	323	217	
	Passengers under	122	58	-
old?	60 years old s the ratio of passer r answer in its simple			engers under 60 years [3]
old?	s the ratio of passer			
old? Give you	s the ratio of passer r answer in its simple sengers 60 years old	est form.	and over to pass	[3]
old? Give you Pas	s the ratio of passer r answer in its simple sengers 60 years old	and over : passe	and over to pass ngers under 60 ye	[3] ars old



(a)	Solve the following equation. [3]	Exa
	4(3x + 2) = 12	
(b)	Write down an expression for the <b>total</b> cost of 3 bananas at $x$ pence each, and 5 apples	;
	Write down an expression for the <b>total</b> cost of 3 bananas at $x$ pence each, and 5 apples at $2x$ pence each. Simplify your answer. [3]	



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

