Centre Number

First name(s)

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3300U10-1

GCSE

A19-3300U10-1

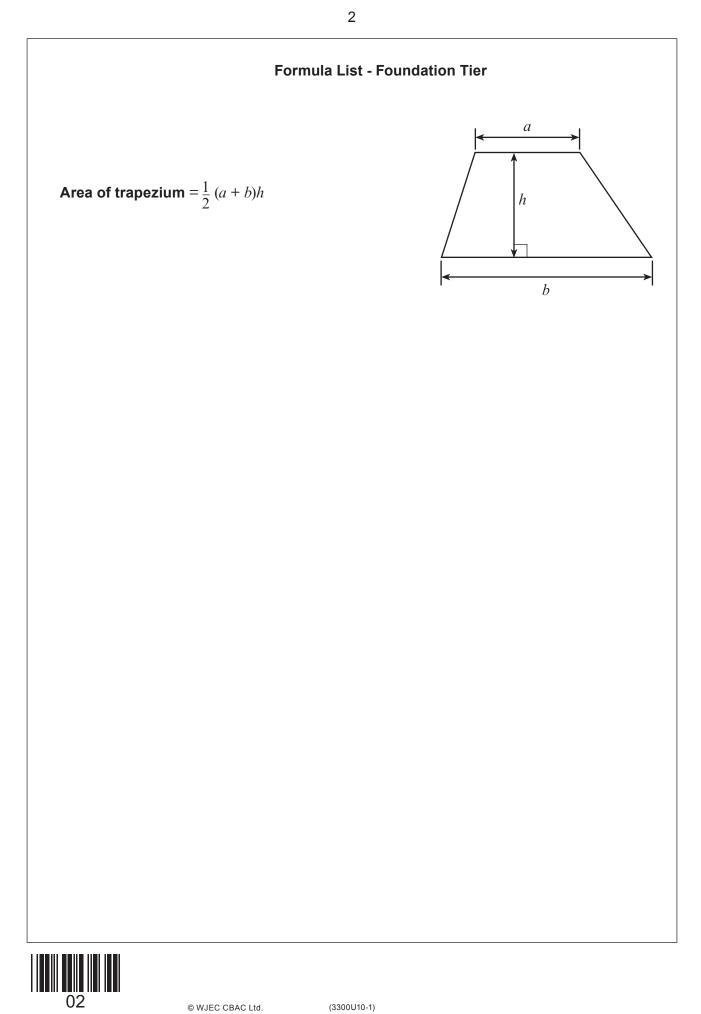
## **MONDAY, 11 NOVEMBER 2019 – AFTERNOON**

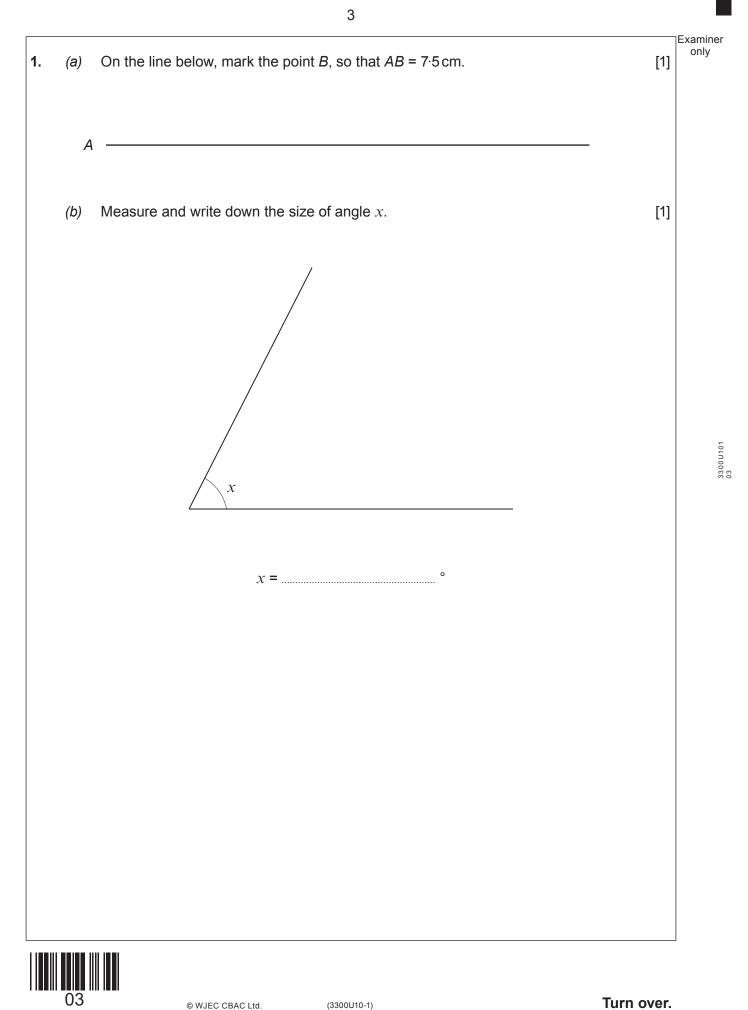
## **MATHEMATICS UNIT 1: NON-CALCULATOR** FOUNDATION TIER

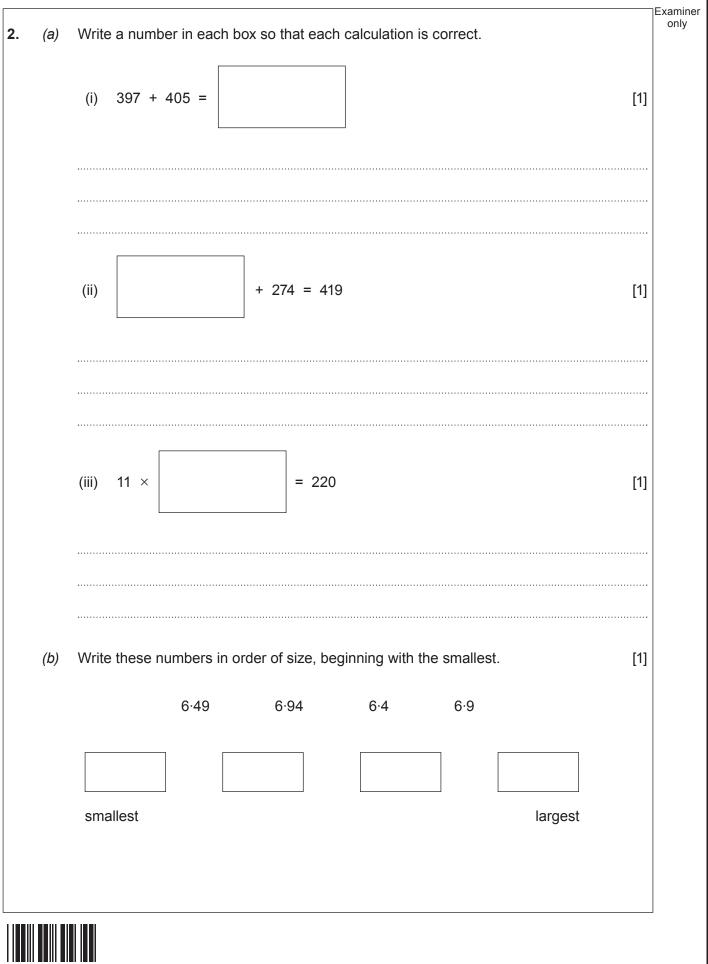
1 hour 30 minutes

	For Examiner's use only		
	Question	Maximum Mark	Mark Awarded
ADDITIONAL MATERIALS	1.	2	
The use of a calculator is not permitted in this examination.	2.	4	
A ruler, protractor and a pair of compasses may be required.	3.	3	
INSTRUCTIONS TO CANDIDATES	4.	2	
Use black ink or black ball-point pen. Do not use gel pen or correction fluid.	5.	2	
You may use a pencil for graphs and diagrams only.	6.	3	
Write your name, centre number and candidate number in	7.	4	
the spaces at the top of this page. Answer <b>all</b> the guestions in the spaces provided.	8.	4	
If you run out of space, use the additional page at the back	9.	5	
of the booklet. Question numbers must be given for all work written on the additional page.	10.	3	
Take $\pi$ as 3.14.	11.	3	
INFORMATION FOR CANDIDATES	12.	3	
You should give details of your method of solution when	13.	5	
appropriate.	14.	2	
Unless stated, diagrams are not drawn to scale.	15.	3	
Scale drawing solutions will not be acceptable where you are asked to calculate.	16.	3	
The number of marks is given in brackets at the end of each question or part-question.	17.	3	
In question 9, the assessment will take into account the	18.	3	
quality of your linguistic and mathematical organisation,	19.	4	
communication and accuracy in writing.	20.	4	
	Total	65	











	5		Examine
3.	Draw all the lines of symmetry on each of the following shapes.	[3]	only
4.	Fill in the missing term in each of these number sequences.		
	<i>(a)</i> 100, 91,, 73, 64	[1]	100000
	<i>(b)</i> 4,, 18, 25, 32	[1]	



5.	<ul> <li>(a) Sara has 20 balls in a bag.</li> <li>There are 15 blue balls and 5 red balls.</li> <li>Sara chooses a ball at random from her bag.</li> </ul>						Examine
	Describe the chance that Sara chooses a red ball from her bag. Circle the correct expression from those given below.						
		impossible	unlikely	an even chance	likely	certain	
	(b)	Gareth has sor These are Gare		number written on each	one.		
		125	269	748		731	
		Gareth choose	s one of his car	ds at random.			
				eth chooses a card with a rom those given below.	an odd num	iber on it.	[1]
		impossible	unlikely	an even chance	likely	certain	

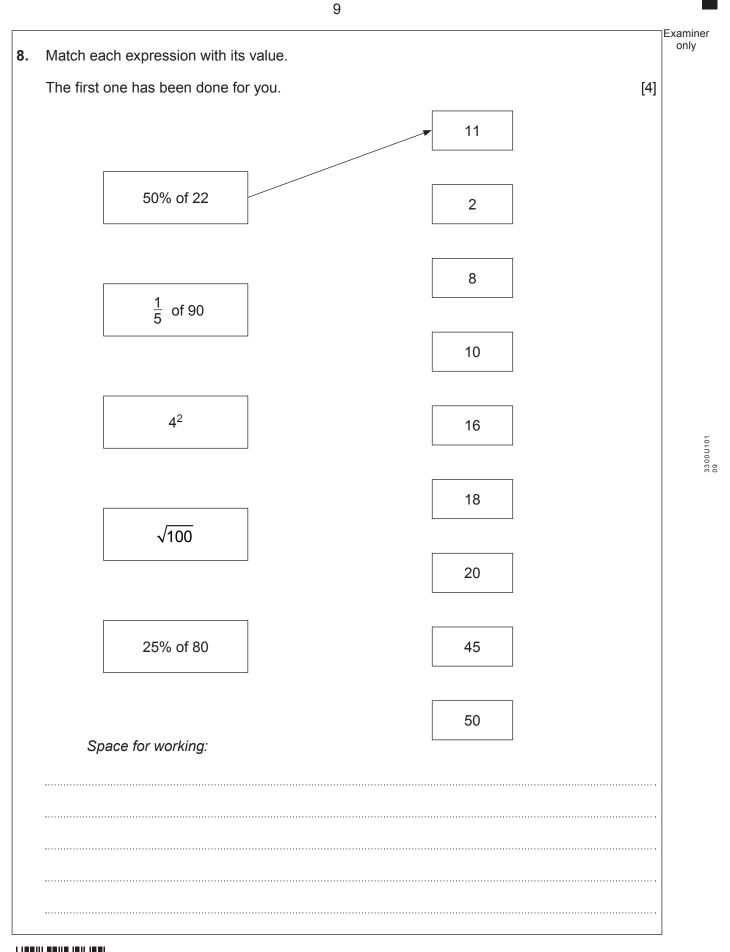
			Examiner
6.	(a)	Write one of the numbers 3, 5, 7, 9 in each box.	only
		Each number may be used only once. The sum of the numbers in the column must equal the sum of the numbers in the row.	
		[1]	
		10	
		Space for working:	
	•••••		
	•••••		
			5
	•••••		3300U101 07
	(b)	Write a <b>different multiple of 4</b> in each box to make this sum correct. [2]	33
	(~)		
		+ + = 40	
		Space for working:	
		opace for working.	
	••••••		
	•••••		
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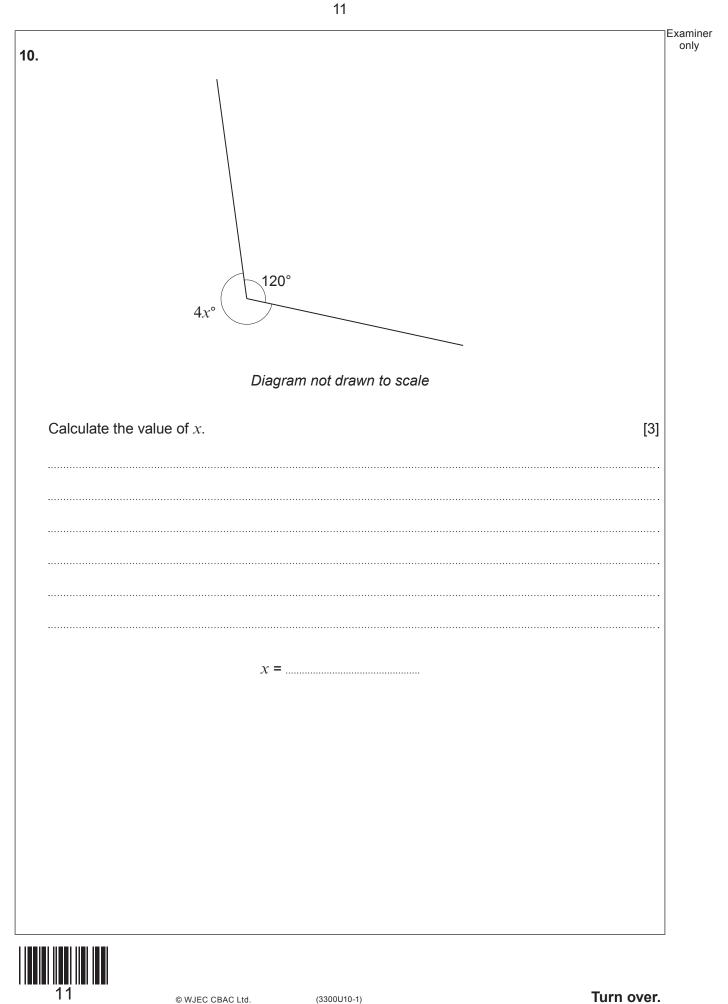
(a)	Solv	e these equations.	
	(i)	7x = 56	[1]
	(ii) 	23 - x = 9	[1]
(b)	(i)	Sian has <i>n</i> boxes. Each box contains 8 pens. How many pens does Sian have altogether?	[1]
	(ii)	Number of pens is	
		He gave 3 CDs to a friend. How many CDs does Meic have now?	[1]
		Number of CDs is	





In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.					
	Id another rod is $1\frac{1}{2}$ yards long.				
	of these rods in inches?	[3 + 2 OCW]			
	You are given that: 1 yard = 3 feet 1 foot = 12 inches				



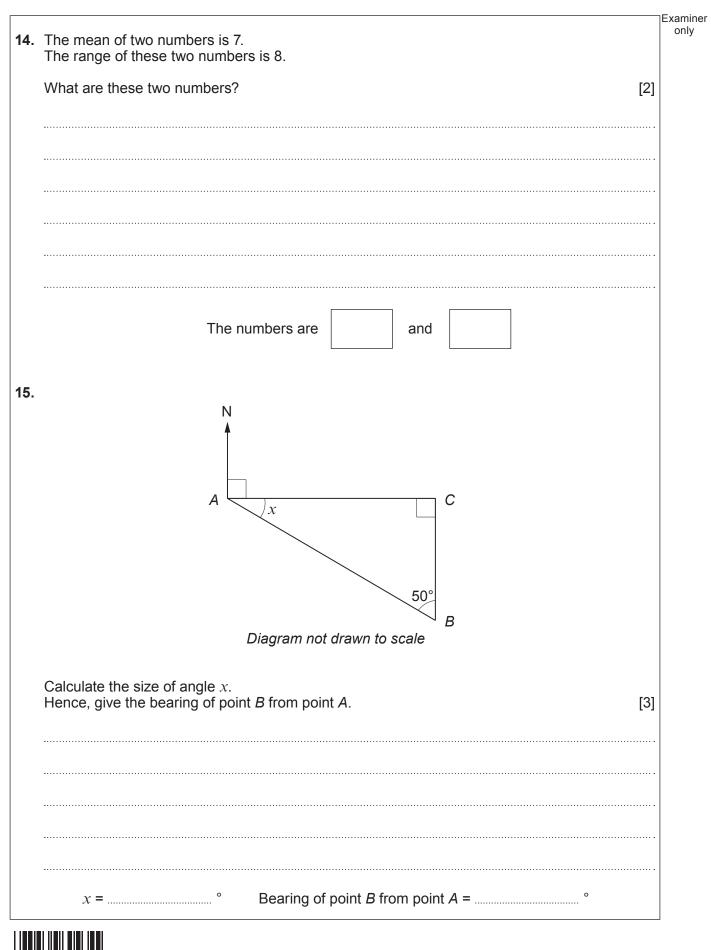


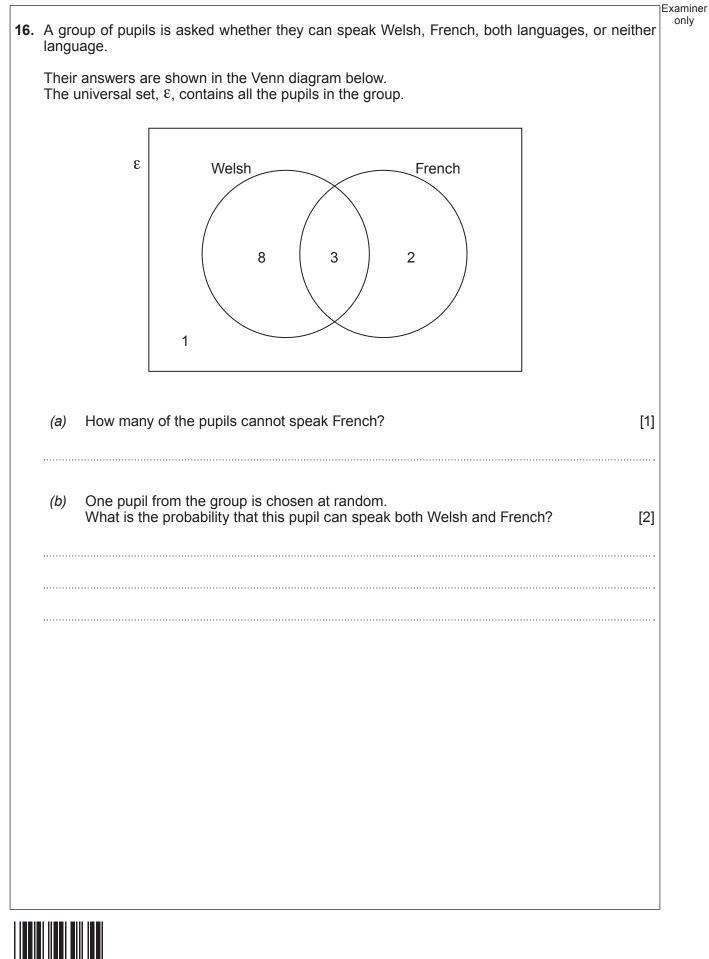
11.	. Complete each row of the following table. The first row has been completed for you. [3]						
	Place	Temperature at 10 a.m.	Change	Temperature at 6 p.m.			
	Cwmbran	2°C	Down 4°C	-2°C			
	Llanelli	−3°C	Down 1°C				
	Llanidloes	−4°C		−1°C			
	Porthmadog		Up 4°C	3°C			
		st value	Greatest				



		13	Exa
3.	(a)	Calculate the value of $3x + 4y$ when $x = -6$ and $y = 5$ .	[2] °
	(b)	Simplify the expression $9g - 4f - 3g - 5f$ .	[2]
	(C)	Expand $4(3x - 5)$ .	[1]





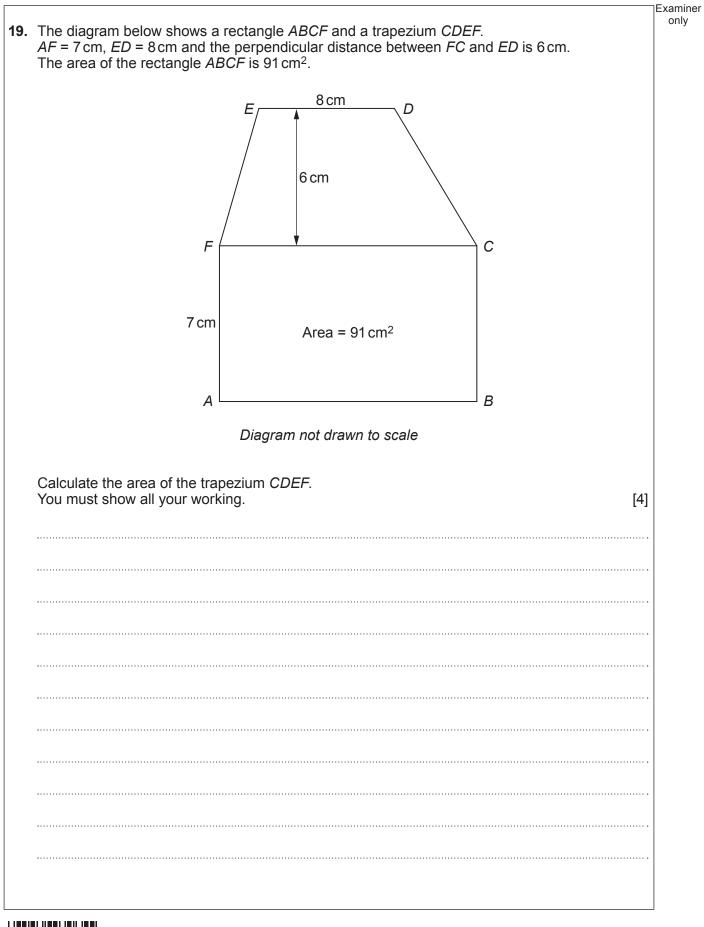




	16	
17.	Find the whole number which satisfies all of the following conditions:	Examiner only
	<ul> <li>It is a whole number between 1 and 40 inclusive.</li> </ul>	
	• The number is a multiple of 4 but not a multiple of 8.	
	<ul> <li>3 is a factor of this number.</li> </ul>	
		[3]
		[0]
	The whole number is	



18.	(a)	What is the to Circle the cor	otal mass when struct answer.	534g is added to	3·5 kg?		[1]
		4∙034 g	4·034 kg	537·5g	537·5 kg	884 g	
	(b)	What is the to	otal length when	35 cm is added to	o 7∙8 m?		
		Circle the cor 113 cm	rect answer. 42∙8 m	42·8 cm	815 cm	815 m	[1]
	(c)	How many m Circle the cor 0·4 mm <sup>3</sup>	m <sup>3</sup> are there in 4 rect answer. 4 mm <sup>3</sup>	4 cm <sup>3</sup> ? 40 mm <sup>3</sup>	400 mm <sup>3</sup>	4000 mm <sup>3</sup>	[1]
							······
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Examiner only 20. 200 young people are taking part in a conference held at Aberystwyth. One of the young people is chosen at random to be the chairperson. (a) Complete the table below to find the probability that the person chosen lives outside the United Kingdom (UK). [2] Mid South Elsewhere Outside North Wales Wales the UK Wales in the UK Probability 0.2 0.3 0.25 0.15 How many of the 200 young people live in Mid Wales? [2] (b) **END OF PAPER** 



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