Surname

Centre Number

Number

Other Names



GCSE – NEW

3310U10-1

MATHEMATICS – NUMERACY **UNIT 1: NON-CALCULATOR** FOUNDATION TIER

THURSDAY, 25 MAY 2017 - MORNING

1 hour 30 minutes

ADDITIONAL MATERIALS

The use of a calculator is not permitted in 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 continuation page at the back of the booklet, taking care to number the question(s) correctly.

Take π as 3.14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

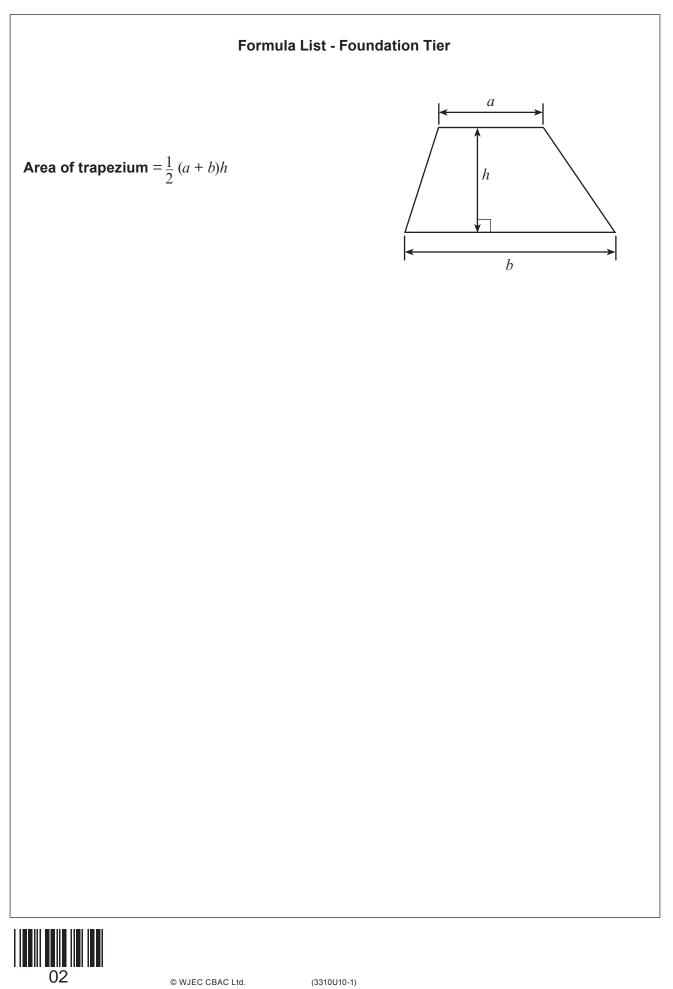
Scale drawing solutions will not be acceptable where you are asked to calculate.

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

In question 4(a), 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.	4					
2.	9					
3.	5					
4.	9					
5.	5					
6.	4					
7.	3					
8.	8					
9.	6					
10.	9					
11.	3					
Total	65					



1. Owen buys houses in Wales. He then rents them out to people. He uses a website to find the average price for a detached house in 6 different counties. Average House Prices (November 2015) County Average house price (£) Anglesey 171 684 Carmarthenshire 158 973 Powys 199 998 Cardiff 269 885 Neath Port Talbot 144 762 182 852 Ceredigion Calculate the difference between the average house price in the most expensive county (a) and least expensive county. Give your answer correct to the nearest £1000. [2] (b) Owen says, "The average house price in four of the counties is less than £180 000." Is Owen correct? Give a reason for your answer. [1] Which of the following is the best approximation for the average house price in Powys? (C) Circle your answer. [1] £199 990 £199 900 £199 000 £190 000 £200 000

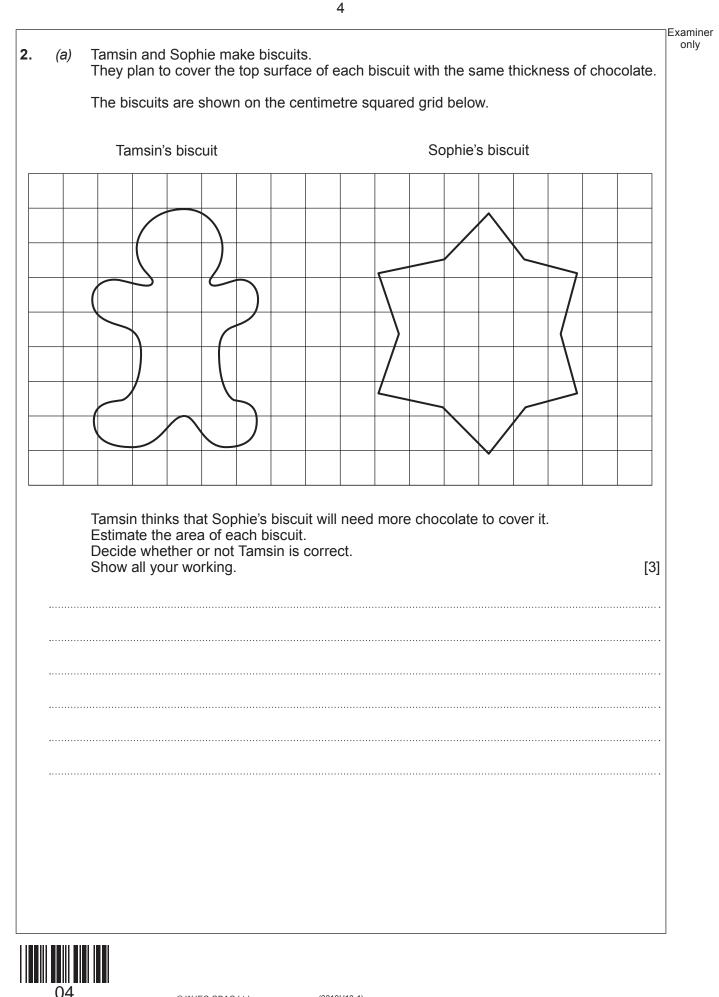
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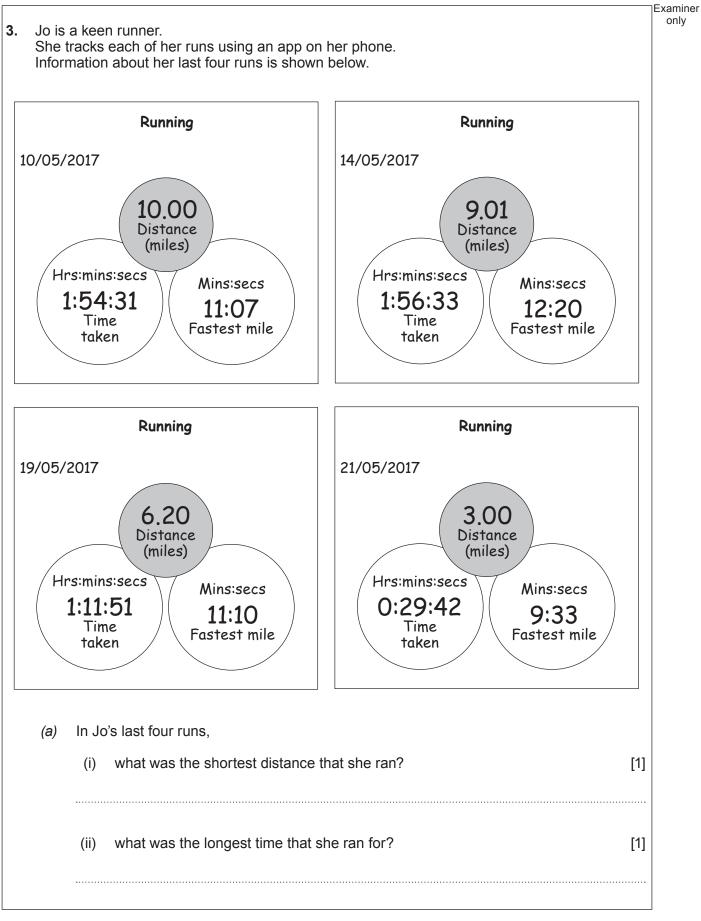
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> 3310U101 03



(1-)	Transis and Orabic house consistent and a find which birshift and the second constant	Examiner only
(b)	Tamsin and Sophie have carried out a survey to find which biscuits are the most popular. The four most popular biscuits are chocolate cookies, custard creams, jammy dodgers and digestives	
	and digestives. Design a tally chart that Tamsin and Sophie could have used to collect their data and show their results. [3]	
		3310U101
(C)	Tomas makes rectangular biscuits. The top of each biscuit has a surface area of 30 cm ² . Tomas covers the surface area of the top of each biscuit with chocolate. The chocolate costs 3 pence per 10 cm ² . Calculate the cost of covering 200 of these biscuits with chocolate. [3]	
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3310U101 05



Circle either TRUE or FALSE for each of the following statements about Jo's last 4 runs.

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[2]

	-	
Jo always ran for more than half an hour	TRUE	FALSE
Jo ran a total of more than 25 miles	TRUE	FALSE
Jo's fastest mile run was under 10 minutes	TRUE	FALSE
Jo's furthest run took the longest time	TRUE	FALSE

(c) On the **10th May 2017**, Jo set a target time of 1 hour 45 minutes to complete her run. By how many minutes and seconds did Jo miss her target? [1]





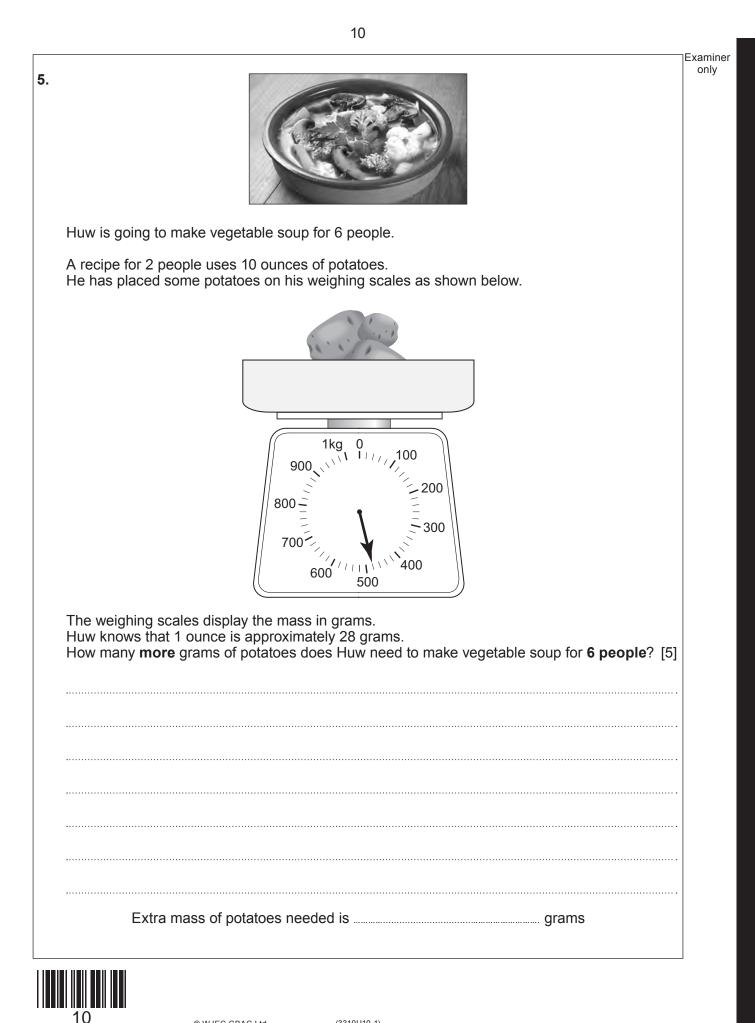
(b)

Mrs Henry works part	time in a factory.	verked last week is abou	up in the table	
The amount of time to		orked last week is show	<i>in in the table.</i>	
	Day	Hours worked		
	Tuesday	$3\frac{1}{2}$		
	Wednesday	4		
	Thursday	4 ¹ / ₂		
	Friday	5		
	Saturday	3		
	L			
Mrs Henry's pay is cal	Iculated using the foll	owing:		
Tuesday to Friday:		r the first 15 hours r any extra hours		
	•			
(a) In this part of a	the question, you wil	ual rate of £8 per hour I be assessed on the	quality of your org	ganisation,
communication Work out Mrs H		l be assessed on the ng.		ganisation, + 2 OCW]
(a) In this part of a communication Work out Mrs H	the question, you wil and accuracy in writi lenry's total pay for la	l be assessed on the ng.		
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On anoth	ner week Mrs Henry	was paid £188.			
She puts	20% of her weekly	wage into a saving	s account.		
How muc Circle vo	ch did Mrs Henry pu ur answer.	ut into her savings a	ccount that week?	•	[1]
£9.40	£18.80	£34.20	£37.60	£150.40	r.1
20110	210100	2020	201100	2100110	

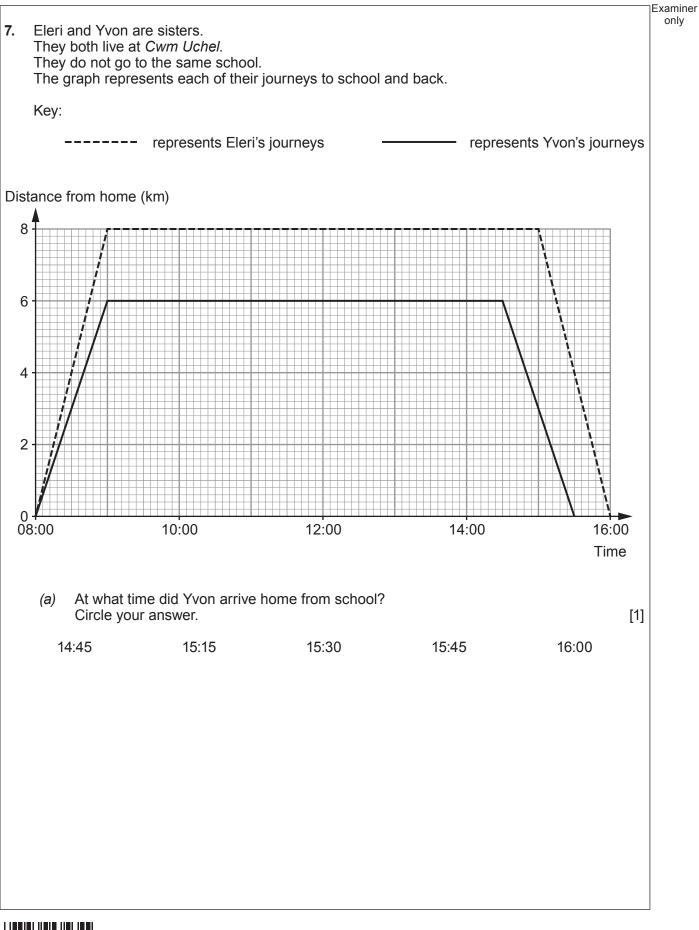




6.	Siân wrote the following:	Examiner only
	'For the last 7 days I have recorded the number of cars parked in my local car park at 10 a.m. each day. This is what I found.	
	 The car park always had some cars parked in it. The greatest number of cars was 11. The range was 8 cars. The median was 9 cars. The mode was 10 cars. On one day, there were 6 cars in the car park. On another day, there were 7 cars in the car park.' 	
	Gareth asked, 'What was the mean number of cars in the car park at 10 a.m. for these 7 days?'	
	Complete Siân's reply to Gareth's question. You must list the 7 numbers Siân recorded and show all your working.	
	'The mean number of cars in the car park at 10 a.m. for these 7 days was	
	cars.' [4]	
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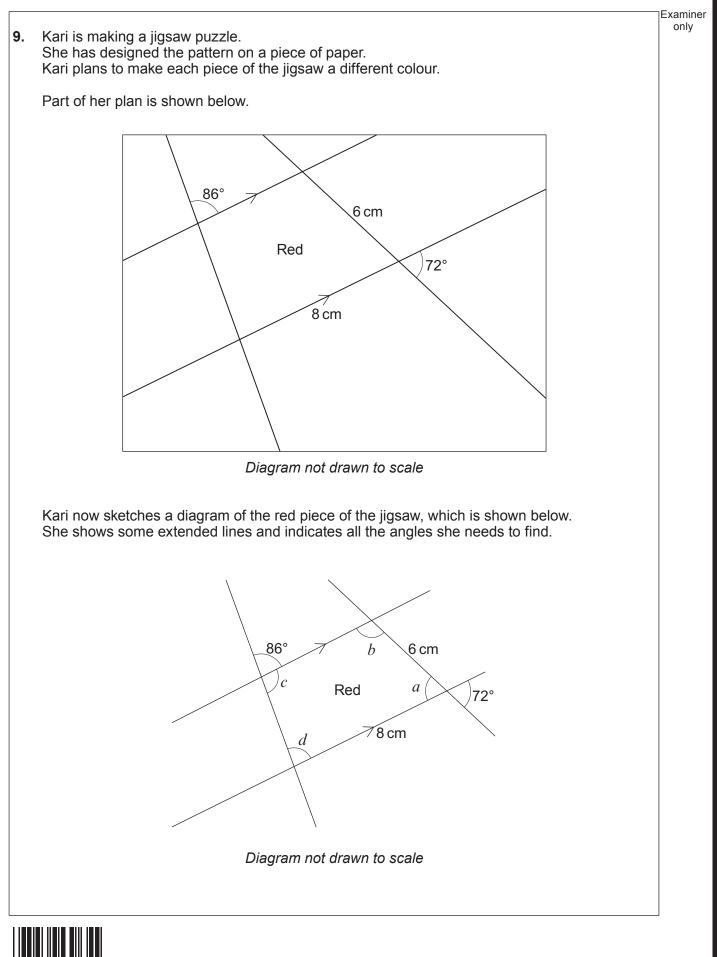
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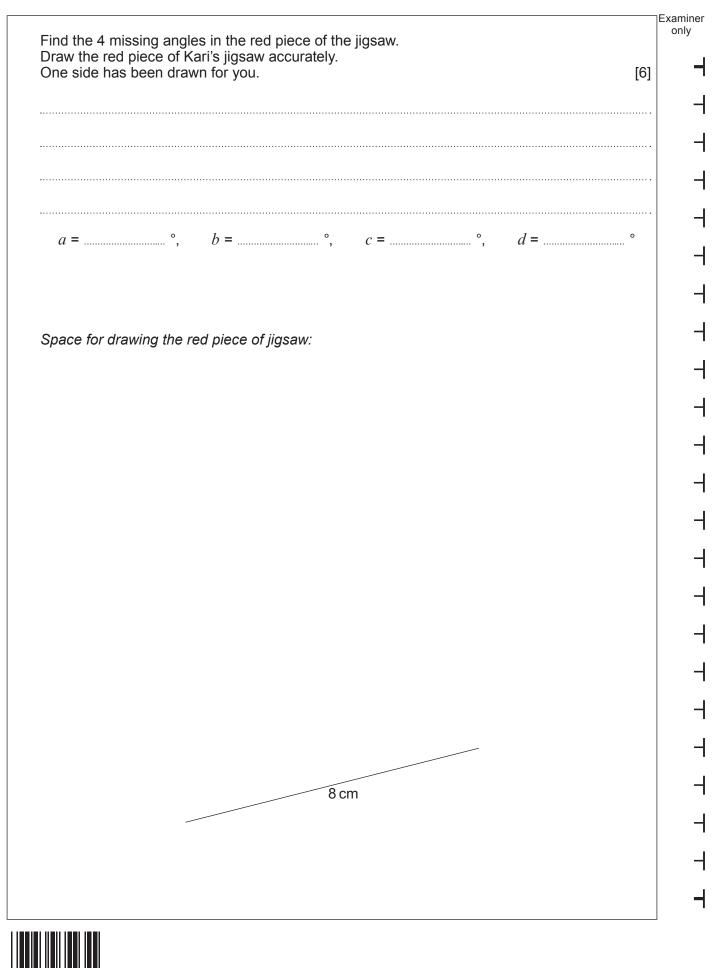
(b)	Eleri cycles along	a straight roa	ad to school a	nd back.		
	How far does she Circle your answe	e cycle when g er.	going to schoo	l and back in c	one day?	[1]
	6 km	8 km	9 km	12 km	16 km	
(c)	Martha looks at th	ne graph and	says,			
				n from Yvon's	school.'	
	Is this true?					
	Certainly true		Certainly fals	e	Can't tell	
	Give a reason for	your answer.				[1]
•••••						

		Alun Can	nping		
the set set		Charges		the test that	
	ground area: in or equal to 12 m than 12 m ²		£14 per night £16 per night		
		<u>AND</u>			
Charge per pe	rson: £4 per nigh	it.			
	5 nights and get t ns no charge for t				
hey are going to:take only one te	nt between them, ing a rectangular g				netres,
 hey are going to: take only one te take a tent cove both stay for a to 	nt between them, ring a rectangular g otal of 12 nights. veeks away. e £15 per week from	ground area	a, measuring 2·5 their holiday in 8	metres by 4·4 m	netres,
They are going to: • take only one te • take a tent cove • both stay for a to Their holiday is just 8 w They each plan to sav Will the amount they sav	nt between them, ring a rectangular o tal of 12 nights. weeks away. e £15 per week from ave be enough to p	ground area	a, measuring 2·5 their holiday in 8	metres by 4·4 m	netres, [8]
 They are going to: take only one te take a tent cove both stay for a to Their holiday is just 8 where the second	nt between them, ring a rectangular o tal of 12 nights. weeks away. e £15 per week from ave be enough to p	ground area	a, measuring 2·5 their holiday in 8	metres by 4·4 m	
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 They are going to: take only one te take a tent cove both stay for a to Their holiday is just 8 where the second	nt between them, ring a rectangular o tal of 12 nights. weeks away. e £15 per week from ave be enough to p	ground area	a, measuring 2·5 their holiday in 8	metres by 4·4 m	
They are going to: • take only one te • take a tent cove • both stay for a to Their holiday is just 8 w They each plan to sav Will the amount they save	nt between them, ring a rectangular o tal of 12 nights. weeks away. e £15 per week from ave be enough to p	ground area	a, measuring 2·5 their holiday in 8	metres by 4·4 m	

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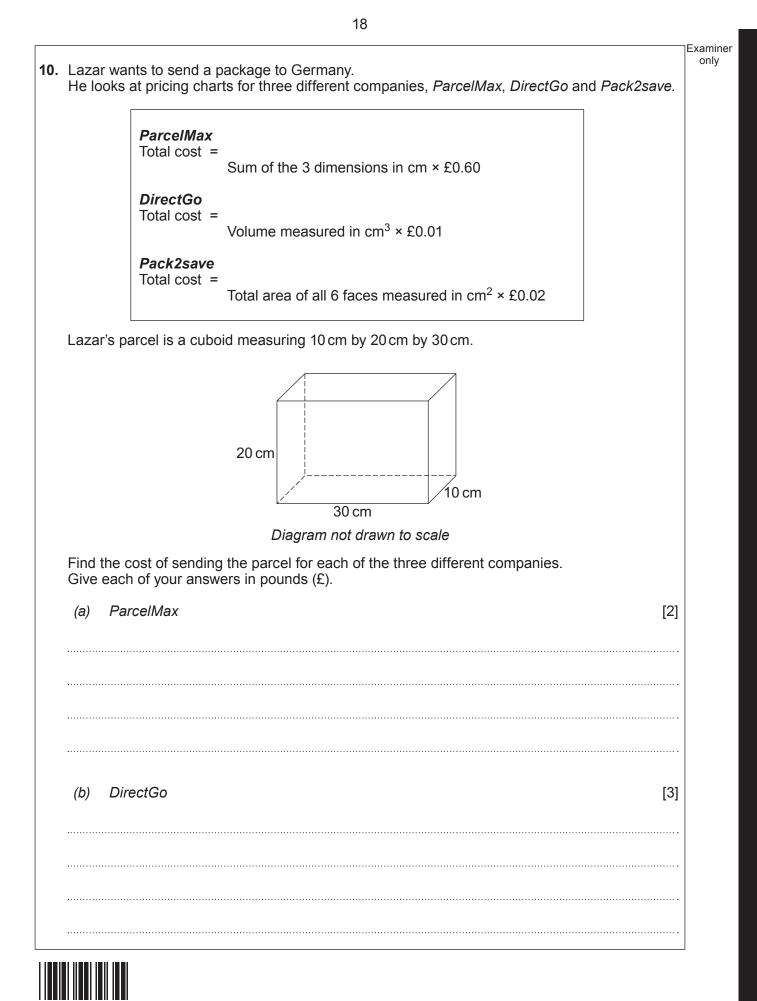
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	a has a job in a workshap that makes descrations	Ex
	e has a job in a workshop that makes decorations.	
He	makes decorations using small squares of stained glass.	
Ollie	e has made the following decorations.	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	labels the first decoration D1. labels the next 3 decorations in order, D2, D3 and D4.	
He	continues to make decorations and labels following this pattern.	
(a)	After making decoration D5, Ollie notices he only has 10 small squares of stained glass left. How many more squares of stained glass will Ollie need to make decoration D6? [2]	
 (b)		

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