Surname

Centre Number Candidate Number

Other Names



GCSE

4351/01

MATHEMATICS (UNITISED SCHEME) UNIT 1: Mathematics in Everyday Life FOUNDATION TIER

A.M. MONDAY, 9 June 2014

1 hour 15 minutes

ADDITIONAL MATERIALS

A calculator will be required for this paper.

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.

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 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.

You are reminded that assessment will take into account the quality of written communication (including mathematical communication) used in your answer to question **4**.



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





			Examiner
1.	A leaflet showed the population of various areas in Wales. It gave the information in words and in figures.		Only
	(a) Complete the entries for the following two places in words and figures.	[2]	
	<u>Anglesey</u> Sixty-nine thousand and twenty-five		
		••••••	
	Gwent		
	550 704		
	(b) How much greater was the population of Gwent than the population of Anglesey	/?	
	Give your answer correct to the hearest 1000.	[2]	
			4351 01000
	To the nearest 1000:		
1111	0 3 © WJEC CBAC Ltd. (4351-01) Tu	urn over.	

Examiner only 2. The number of pets in each house in a street was recorded. A summary of the results is given below. Number of pets 2 0 1 3 4 Frequency 6 8 5 2 1 On the diagram below draw a vertical line diagram to show this information. [4] (a) Frequency Number of pets Calculate the total number of pets in these houses. [2] (b)

4









			Evomino
	(b)	Another piece of land is also to be seeded. It is rectangular and measures 15 metres by 11 metres. If you bought the same amount of seed as in part <i>(a)</i> , which extra box of seed would you need to buy in order to have just enough seed for this piece of land? You must show all your working to support your answer. [2]	only
5.	A he custo	dge-cutting firm uses the following formula to calculate how much they should charge omers.	
		Charge = £2 per 10 metre length + cost of fuel	
	(a)	How much would the firm charge a farmer for cutting 640 metres of hedge when the cost of the fuel used was £12? [2]	
	(b)	A town council was charged £205 to cut the hedges in the local park. The cost of the fuel used was £15. How many metres of hedge were cut? [3]	



Turn over.



How much did each child's ticket cost?	[4]
	••••••
	••••••
	••••••

At 4:05 p.m. she continued on her journey. When she arrived at Bristol her car clock showed the time to be 17:50	
What was her average speed whilst driving?	
You must give the units for your answer.	[5]



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		12 am
		12 cm
		3·8 m
5.5	5 m	
Diag	ram not drawn to scale	
What will be the volume of this conc	rete base in cubic metres (m ³)?	[3]



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Need some euros this Summer?	Back from holiday? Need to change your euros into pounds?	
£1 will buy you 1·28 euros.	1.50 euros will buy you £1.	
Keith went to the exchange shop to The following day he realised that The returned to the exchange shop The shop was displaying the same	b buy 600 euros for his trip to Portugal. he would be unable to go on the trip. and changed the 600 euros back into pounds. information as shown above.	
low much money did Keith lose b	ecause of these two transactions?	[5]
		•••••••
		••••••



	'More men than women huw a daily nowenanar'	
	More men than women buy a daily newspaper.	
he plans t	to	
 hand 	d out a short questionnaire at a Women's Institute meeting,	
 ask t 	the following questions in the questionnaire,	
	(i) How old are you?	
	(ii) How often do you buy a newspaper?	
Never	1-3 times 3-5 times More than 5 times	
• colle	ect their replies at the next meeting.	
/rite down	n three unfavourable comments about this plan.	[3]
1		[-]
••••••••		
.		
2		
2		
2		
2 3		

Calc	ulate $\sqrt{(24.6 - 13.8)^3}$, correct to 3 significant figures.	[2]
(a)	A company was set up with 500 workers. At the end of each of the first three years the company employed more workers. The number of additional workers employed each year was equal to two-fifths of number of workers that were there at the start of that year.	the
•••••		
••••••		
(b)	Calculate the percentage increase in the number of workers from the first year to fourth year.	the
<u>.</u>		
·····		
•••••		

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ion er	Additional page, if required. Write the question number(s) in the left-hand margin.	Examii only
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