Surname

0

Candidate Number

> 1353 10001

Other Names



GCSE

4353/01

MATHEMATICS (UNITISED SCHEME) UNIT 3: Calculator-Allowed Mathematics FOUNDATION TIER

A.M. THURSDAY, 17 January 2013

 $1\frac{1}{2}$ hours

ADDITIONAL MATERIALS

A calculator will be required for this paper.

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 9.



For Examiner's use only					
Question	Maximum Mark	Mark Awarded			
1	11				
2	8				
3	3				
4	4				
5	6				
6	8				
7	7				
8	4				
9	8				
10	5				
11	7				
12	5				
13	4				
TOTAL MARK					





(a)	(i)	The following is part of a weekly food bill	for a family	ľ	Examiner only
<i>(u)</i>	(1)	Complete the bill.	ior a failing.		
		Item	Cost		
		2 joints of meat @ £9.85 each	£ 19.70		
		8 loaves of bread @ £1.57 each	£		
		14 litres of milk @ 83p per litre	£		
		3 packets of cereal @ £1.64 per packet	£		
		Total	£		
		What shares mould not if you would the	- hill	[4]	
	(11)	what change would you get if you paid the	e oni with three £20 h	otes:	
					2352
	(iii)	The shop that supplies the food gives 5 loy	alty points for every	[2] E10 spent.	
		How many points will this bill deserve?			
	•••••				
				[2]	
<i>(b)</i>	(i)	Write 5.324 correct to 2 decimal places.		[2]	
(b)	(i)	Write 5.324 correct to 2 decimal places.	1	[2]	
(b)	(i) (ii)	Write 5.324 correct to 2 decimal places. Write 74.63 correct to the nearest whole m	ımber.	[2]	
(b)	(i) (ii)	Write 5.324 correct to 2 decimal places. Write 74.63 correct to the nearest whole nu	ımber.	[2]	
<i>(b)</i>	(i) (ii) (iii) (iii)	Write 5.324 correct to 2 decimal places. Write 74.63 correct to the nearest whole nu Write 65 839 correct to the nearest 1000.	ımber.	[2]	



W	eek number		1	2	3	4	
N	umber of crat	es	120	220	170	110	
	Draw a pictog 40 crates.	gram to 1	represent the	above information	tion, using	to repres	ent
	Week 1						
	Week 2						-
	Week 3						_
	Week 4						



For use with Question 2	Examiner only
For use with Question 2.	
	4353 010005











Examiner only Showing all your working, find the mean number of marks scored by Jake. *(c)* [3]

9

0 9

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. (a)	Complete an accurate drawing of the triangle <i>ABC</i> , in which <i>BC</i> = 11 cm, $ABC = 73$ and $ACB = 55^{\circ}$.	o 01
	The line <i>BC</i> has been drawn for you. [3	ר ^ב
		' -
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		-
	<u>В</u> С	

F

7. (a) Calculate
$$\frac{5}{8} - \frac{1}{4}$$
.
(b) Solve $3x + 8 = 23$.
(c) Given that $B = 3T + 2W$, find W when $B = 32$ and $T = 6$.
(c) Given that $B = 3T + 2W$, find W when $B = 32$ and $T = 6$.
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(c) Given that $B = 3T + 2W$, find W when $B = 32$ and $T = 6$.
(c) $\frac{300.27}{24.36 \times 6.74}$.
(c) $\frac{300.27}{24.36 \times 6.74}$.
(c) $\frac{58^2 - 4.79 + \sqrt{345 + 9.64}}{2}$.
(c) $\frac{1}{2}$

9. *You will be assessed on the quality of your written communication in this question.* The table below shows the basic hotel costs for a two week holiday in August.

Start datePrice for each adult (£)Price for each child (£)August 1654Half adult price + £100August 15668Half adult price + £150August 29586Half adult price

Supplements	Sea view	£10 per person per night
	Balcony	£6 per person per night

Mr and Mrs Hodgkin book a two week holiday for themselves and their three children with a start date of 15th August.

They decide to book rooms with a sea view and a balcony.

Calculate the total amount that they have to pay the hotel.

You must explain each step of your calculation and show all your working.

 	 [8]

Examiner only

	Cervs makes hats for a living.	Exan
•		
	Each hat she makes needs 0.45 m^2 of fabric costing £3.40 per m ² and 50 cm of ribbon. Cerys pays herself £12.60 per hour. She can make 3 hats in two hours. There are no other costs or outgoings. Cerys sells each hat for £10.25, which exactly balances the costs and outgoings.	
	Calculate how much the ribbon costs per metre. You must show all your working.	
	[7]	

Examiner only 12. Solve (a) 6x + 7 = 4(x + 6), [3] (b) $\frac{x}{5} + 4 = 13$ [2]

A solution to the equation $x^3 + 2x - 25 = 0$ lies between 2 and 3. Find this solution correct to 1 decimal place.	E
	[4]
FND OF PAPER	

Question number	Additional page, if required. Write the question numbers in the left-hand margin.	Examine only

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20

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