Surname

Other Names

GCSE

4352/01

MATHEMATICS (UNITISED SCHEME) UNIT 2: Non-Calculator Mathematics FOUNDATION TIER

A.M. FRIDAY, 14 June 2013

 $l\frac{1}{4}$ hours

Suitable for Modified Language Candidates

CALCULATORS ARE NOT TO BE USED FOR THIS PAPER

ADDITIONAL MATERIALS

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.

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	10			
2	4			
3	4			
4	5			
5	5			
6	4			
7	8			
8	5			
9	8			
10	6			
11	6			

Centre Number Candidate Number

0

TOTAL MARK



(a)	(i) Write down in words the number 67 530.	Examin only
	(ii) Write down in figures the number eight thousand and thirty four.	. [1]
		[1]
(b)	Using the following list of numbers, 25 13 31 64 40 49 39 11 42 write down (i) two numbers that add up to 80,	
	(ii) the number that is the difference between 59 and 70,	[1]
	(iii) a multiple of 6,	[1]
	(iv) a factor of 100,	[1]
	(v) the square of 8,	[1]
	(vi) an odd number that is not a prime number nor a perfect square.	[1]
(c)	Write 6753 (i) correct to the nearest 100.	[1]
	(.,	[1]
	(ii) correct to the nearest 1000.	
		[1]







4.	(a)	Describe in words the rule for continuing each of the following sequences	Examiner only
	(4)	(i) 51, 47, 43, 39,	
		(ii) 243, 81, 27, 9, Rule:	
	<i>(b)</i>	Solve $x + 3 = 14$.	[2]
	(c)	(i) Write down the next term of the sequence	[1]
	(0)	(i) Write down the next term of the sequence $3, 4, 6, 9, 13, \dots$	[1] 4325
		(ii) Describe in words the rule for continuing the sequence.	
			[1]
1.10.01			





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6. The electricity meter readings at the beginning and at the end of a 3-month period were:

Reading at the end of the period

Reading at the beginning of the period



The cost of the electricity used was 30p per unit. There was a standing charge of \pounds 25.34 for the 3-month period.

Complete the following table to find the total cost.

Reading at the end of the period	
Reading at the beginning of the period	
Number of units used	
Cost of the units, in £	
Standing charge for the 3 months	
Total cost	



[4]

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Examiner only

7.	(a)	Solve $6x - 5 = 7$.	only
		[2	
	<i>(b)</i>	Simplify $5a + b - 4a - 2b$.	1
	·····		
	·····		
	(c)	Write down the cube root of 64.	
		[1] Simplify 7 1]
	(<i>u</i>)	Simplify $\overline{8} - \overline{4}$.	
	·····		
		[2]



INPUT	SUBIRACI 2		
W 7			
Write dov	vn the OUTPUT when	n the INPUT is -4 .	

Examiner only On the grid below, draw the enlargement of the given shape, using a scale factor of 3 and centre A. 8. (a)-[3] \neg A - \neg - \neg \neg \neg \neg \neg \neg -- \neg - \neg -- \neg ----



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You will be asses	ssed on the quality of your written communication in this question.	E
	Perfume SPECIAL OFFER	
	Buy 3 and get the cheapest free	
	Large bottle £5.50	
	Medium bottle £3.60	
	Small bottle £2.40	
amantha wants	s to buy 7 large bottles, 4 medium bottles and 4 small bottles.	
Vhat is the mos	st she can save on this special offer?	
		[8]
		[8]
		[8]
		[8]
		[8]

Harley has saved £210 t She earns £140 per week Harley can only afford She sees an advertiseme	towards the cost of buying a laptop computer. k from a part-time job. to save 12% of the amount she earns each week. ent, shown below, for the laptop computer she wants to buy.
E:	Only for the next 6 weeks 15% off the marked price! Remember this offer is only valid for the next 6 weeks.
Will Harley be able to b You must show all your	buy the laptop computer at the reduced price? r working. Give a reason for your answer.
·····	



11. Yasmin carried out an experiment.

In the experiment, she shot 10 balls at a target and recorded the number of shots hitting the target.

Examiner only

She carried out this experiment 6 times.

The results are shown in the following table.

Experiment	1st	2nd	3rd	4th	5th	6th
Number of shots hitting the target	3	5	4	4	2	2

Yasmin decided to draw a graph. It showed the relative frequency of 'shots hitting the target' after 10 shots, 20 shots, 30 shots, 40 shots, 50 shots, 60 shots.

(a) Draw the graph of the relative frequencies. Use the graph paper opposite for your graph.

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

