Surname

Centre Number Candidate Number

0

Other Names



GCSE

4352/01

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

A.M. FRIDAY, 13 June 2014

1 hour 15 minutes

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 **7**.



For Examiner's use only						
Question	Maximum Mark	Mark Awarded				
1.	9					
2.	3					
3.	2					
4.	2					
5.	3					
6.	9					
7.	7					
8.	3					
9.	4					
10.	4					
11.	2					
12.	6					
13.	5					
14.	2					
15.	4					
Total	65					



3	30	328	371	387	370	388	330
0	(i)	write down t	he smallest n	umber,	515	566	[1]
	()						
	(ii)	write down t	he largest nu	mber.			[1]
b)	Usin	g only the nur	nbers in the f	ollowing list,			
		33 42	2 63	19 8	36	18 54	
	write	e down					
	(i)	two numbers	s that add up	to 87,			[1]
	(ii)	the number	which must b	e added to 39) to make 57	, 1	[1]
	(iii)	a factor of 8	4,				[1]
	(iv)	a square nu	mber.				[1]
(c)	Jane 237(e rounded one	e of the follov	ving numbers	correct to	the nearest 100	. Her answer is
		23840	23784	23649	23689	23770	
	Whic	ch number did	she round?				[1]
(d)	Write	e 5489 correc	t to the neare	st 1000.			[1]
(e)	Wha	t is the value	of the 4 in the	number 349	26?		[1]
	111 120 191						



 						Exar
(a)	Owen has a b	oox containing 30) balls.			
	10 of them are	e green and 20 a	are red.			
	Owen choose	es one ball at ran	dom from this box.			
	Circle the be choosing a gr	st expression freen ball.	om those given below	to describe t	he chance of Ow	ven [1]
į	impossible	unlikely	an even chance	likely	certain	
(b)	Amna has a f	lock of 70 sheep				
	35 of them ha	ve white faces a	nd 35 of them have blac	k faces.		
	Amna choose	es one of her she	ep from this flock at rand	dom.		
	Circle the be choosing a sh	st expression from theep with a black	om those given below face.	to describe tl	he chance of Am	nna [1]
į	impossible	unlikely	an even chance	likely	certain	





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Josh scored 62% and Lowri's mark was 0.58 of the maximum possible mark. Write down which student scored the most marks and which student scored marks. You must show all your working to support your answer.	d the least [3]
Write down which student scored the most marks and which student scored marks. You must show all your working to support your answer.	d the least
You must show all your working to support your answer.	[3]
Student with most marks =	
 (b) Mary thinks of a number. She subtracts 9 from it. She multiplies the answer by 6 and gets 48. What number did Mary think of? 	[2]
(c) Solve	
(i) $\frac{x}{3} = 15$	[1]
(ii) $x + 19 = 32$	[1]

(d) Write do	wn, in th	ne spaces	s showr	, the next two terms in the seque	ence
	24	22	18	12	
	<i>2</i> 1,	,	10,	1 2 ,,	[2]
•••••••••••••••••••••••••••••••••••••••					
CONTRACTOR OF THE OWNER					

Mr and Mrs Morris planned to go on 6 rides each.

Nia and Bryn planned to go on 8 rides each.

7.

out.



	Adult price	Child price
One-day ticket (includes all rides)	£21.50	£17.50
Individual ride ticket (per person per ride)	£2.50	£2.50

Mr and Mrs Morris bought tickets for themselves and for their children. They spent as little money as possible. How much money did it cost them altogether? You must show all your working clearly.

[7]

Examiner only





Examiner
 only



8. Karim painted a fence.		onl
On Monday, he painted $\frac{7}{10}$ of the	fence.	
On Tuesday, he painted another	$\frac{1}{5}$ of the fence.	
On Wednesday, he finished paint	ting the fence.	
What fraction of the fence did Ka	rim paint on Wednesday? [3	5]
ALAT ITALA ITAL IANT		



10. Megan is playing a game against lan.

They each have a bag containing three cards.

Megan's cards are numbered 5, 7 and 9.

lan's cards are numbered 2, 4 and 6.

Megan chooses a card at random from her own bag and then a card at random from lan's bag.

Megan works out the product of the two numbers and adds 3 to her answer.

This total is Megan's score.

For example, if Megan picks a 5 from her own bag and a 2 from lan's bag, her score will be $5 \times 2 + 3 = 13$.

lan's bag

(a) Complete the following table, showing all of Megan's possible scores.

[2]

Examiner only

		2	4	6
	5	13		
Megan's bag	7			45
	9			

(b) Find the probability that Megan's score is less than 30.

[2]







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D	aniel wants to buy a new bicycle. It is priced at £480.
D	 aniel can either pay £480 immediately, or pay a 15% deposit, followed by 24 monthly payments of £22.
(Calculate the total amount Daniel would pay using the deposit and monthly payments method. You must show all your working.
····	

(0)	and monthly payments method. [3]	





15.	Fracton School is organising a Summer Fayre. Carys is making a spinner for her stall. A sketch of her spinner is shown below.	□Examine only
	Diagram not drawn to scale	
	 The spinner has three sectors, each to be painted a different colour: red, green or yellow. The sectors are not of equal size. The probability that the spinner lands on the green sector is ¹/₁₀. The probability that the spinner lands on the yellow sector is twice the probability that the spinner lands on the red sector. Calculate the angle that the yellow sector makes at the centre of the circle. [4] 	2
	END OF PAPER	
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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examine only
		1

