Surname

Centre Number

Candidate Number 0

Other Names

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GCSE



4352/01

S16-4352-01

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

A.M. THURSDAY, 9 June 2016

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 4.



For Examiner's use only					
Question	Maximum Mark	Mark Awarded			
1.	6				
2.	5				
3.	7				
4.	7				
5.	3				
6.	3				
7.	2				
8.	3				
9.	4				
10.	2				
11.	4				
12.	3				
13.	3				
14.	3				
15.	4				
16.	6				
Total	65				

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(a)	Subtract 98 from 600.	[1]
(b)	Write down the number that is one-half of 430.	[1]
(C)	Chester Station is on the railway line between Holyhead and London. At this station there is the following sign:	
	HOLYHEAD 85 miles What is the total distance from Holyhead to London along this railway line?	[1]
(d)	Using only numbers between 40 and 50, write down (i) a square number,	[1]
	(ii) a multiple of 9.	[1]
<i>.</i> .	Write 8652 correct to the nearest 100	[1]



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(a)	(i)	In the space below, draw a quadrilateral with exactly one pair of parallel sides.	[1]	Examiner only
				-
				-
				-
				-
				-
	(ii)	Write down the special name of this quadrilateral.	[1]	-
				-
(b)	(i)	On the set of axes below, plot the points (2, 1), (6, 2) and (7, 5).	[2]	-
	(ii)	These points are three vertices of a parallelogram.		-
		The x-coordinate of the fourth vertex lies between 0 and 5 and its y-coordinate is positive.		-
		Draw the parallelogram.	[1]	-
		<i>y</i>		-
		8		-
		7		-
		6		-
		5		-
		4		-
		3		-
		2		-
		1		-
		0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - x		-
				-
				-
				-

(a)	Solv	e these equations.	E	xaminer only
	(i) $5x = 105$	5x = 105	[1]	
	(ii)	x - 19 = 32	[1]	
(b)	Simp	Dlify $14g - 11g + 5g$.	[1]	
(C)	Desc	cribe in words a rule for continuing each of the following sequences.		
	(i)	0, 16, 32, 48, Rule:	[1]	352
	(ii)	1000, 500, 250, 125, … Rule:	[1]	4
(d)	(i)	Susie bought <i>h</i> books. Susie then bought 6 more books. How many books did she buy altogether?	[1]	
	(ii)	Last year, Osian grew <i>m</i> potatoes. This year, Osian grew one third of that amount. How many potatoes did he grow this year?	[1]	



Examiner only You will be assessed on the quality of your written communication in this question. 4. Paint Mari wanted to do some decorating. The table below shows the cost of paint and paintbrushes in a local shop. Paint Paintbrushes Size Cost of 1 tin Cost of 1 brush £17 £9 Large Small £6 £3.50 Mari bought 5 large tins of paint and 2 small tins of paint. She also bought 4 large paintbrushes and 3 small paintbrushes. Work out the total amount of money that Mari spent. You must show all your working. [7]



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[3]

.....

lan works in a bakery. He is making some cakes. He has a table showing the ingredients for different quantities of cakes.

Fill in the spaces in the table.

5.

Ingredient	1 cake	cakes
flour	200 g	kg
butter	g	0·4 kg
sugar	150 g	1·2 kg
eggs	2	16



s 5 p.m. You must show your \	working.	[3]
,	C	
		••••••
		••••••
Ceinwen spends 45%	o of her income on rent.	
Ceinwen spends 45% f she earns £300 ead	o of her income on rent. ch week, how much rent does she pay each week?	[2]
Ceinwen spends 45% f she earns £300 eac	o of her income on rent. ch week, how much rent does she pay each week?	[2]
Ceinwen spends 45% f she earns £300 ead	o of her income on rent. ch week, how much rent does she pay each week?	[2]
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Ceinwen spends 45%	o of her income on rent. ch week, how much rent does she pay each week?	[2]









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WI	hat is the probability rite your answer in i	y that Sindhu cho the table.	ooses a red count	ter?	1	[2]
С	colour of counter	blue	yellow	red	orange	
Ρ	robability	0.3	0.25		0.4	
•••••						
•••••						
. (a	a) Work out the va	alue of $7^2 - 2^3$.				[2]
. (a	a) Work out the va	alue of $7^2 - 2^3$.				[2]
. (a	a) Work out the va	alue of $7^2 - 2^3$.				[2]
(a	a) Work out the value of the value of the second s	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]
. (a	a) Work out the value of the v	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]
. (a	a) Work out the value of the v	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]
. (a (b	a) Work out the value of r_{7} (b) Simplify $\frac{4}{7}$ (c) $\frac{4}{7}$	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]
. (a (b	a) Work out the value of the v	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]
. (a	a) Work out the value of the v	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]
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(a	a) Work out the value of the v	alue of $7^2 - 2^3$. $\frac{1}{14}$.				[2]







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				Examine
14.	Solve the equation	5x + 7 = 9 + 2x.	[3]	only
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	Exa
 Tax is charged by councils on houses in their area to pay for many local service council tax. 	es. This is called
The council tax for Alun's house is $\pounds1200$ per year, provided 2 or more people s	share the house.
If only one person lives in the house, the council tax is reduced by 25%.	
Alun lived in the house on his own.	
If Ben had moved into the house with Alun, they would have shared the cost or equally.	f the council tax
What would have been the percentage reduction in the cost of the council tax for moved in?	r Alun if Ben had
You must show all your working.	[4]



16. Katie is a netball player. She claims that, if she stands a distance of 2 metres from the goal post, there is a probability of at least 70% that she will score a goal with any throw.

Lloyd, her brother, challenges her to prove this by throwing 6 sets of 10 balls from this distance. Katie's results are given in the following table.

Number of throws	10	10	10	10	10	10
Number of goals	5	7	6	10	8	9

Lloyd then creates a table to show the cumulative number of goals and to calculate the relative frequencies.

Total number of throws	10	20	30	40	50	60
Total number of goals	5	12	18			
Relative frequency of scoring a goal	<u>5</u> 10	<u>12</u> 20	<u>18</u> 30			
	0.5	0.6	0.6			

(a) Complete the table above.

[3]

Examiner only



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Question number	Additional page, if required. Write the guestion number(s) in the left-hand margin.	Examir only
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