Surname	Centre Number	Candidate Number
First name(s)		0



GCSE

3300U10-1



THURSDAY, 16 MAY 2024 - MORNING

MATHEMATICS UNIT 1: NON-CALCULATOR FOUNDATION TIER

1 hour 30 minutes

ADDITIONAL MATERIALS

The use of a calculator is not permitted in this examination. A ruler, 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.

You may use a pencil for graphs and diagrams only.

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 additional page at the back of the booklet. Question numbers must be given for all work written on the additional page.

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.

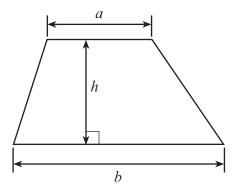
In question **3**, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.

	,	J	
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For Ex	aminer's us	e only
Question	Maximum Mark	Mark Awarded
1.	2	
2.	2	
3.	6	
4.	2	
5.	3	
6.	3	
7.	4	
8.	2	
9.	4	
10.	2	
11.	3	
12.	2	
13.	2	
14.	3	
15.	5	
16.	4	
17.	4	
18.	7	
19.	5	
Total	65	

Formula List – Foundation Tier

Area of trapezium = $\frac{1}{2}(a+b)h$





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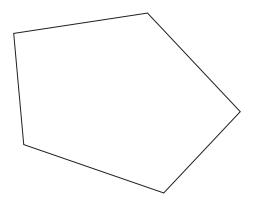
[1]

PMT

1.	(a)	Calculate 5620 × 100.	[1]	0
	•••••			

2. (a)

(b)



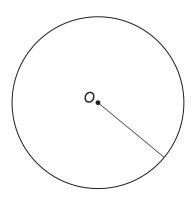
What is the special name of the shape shown above? Circle your answer.

Write 42861 correct to the nearest hundred.

[1]

pentagon hexagon kite parallelogram rhombus

(b)



O is the centre of the circle shown above.

What is the special name of the straight line shown in the diagram? Circle your answer.

[1]

circumference tangent diameter radius chord

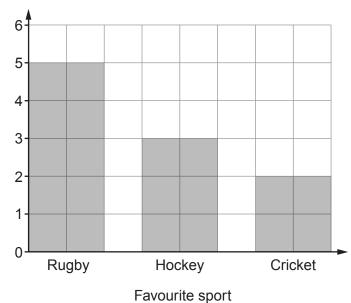
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	∃Exar
In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.	10
Alex has four bags of beads. Three of these bags contain 65 beads each. The fourth bag contains 405 beads.	
Alex pours all the beads from the four bags into an empty box.	
Then, Alex shares all these beads equally between the four bags.	
How many beads are there in each bag?	
You must show all your working. [4 + 2 OCW]	



They each chose one of rugby, hockey or cricket. Matilda showed the results of her survey in the bar chart below.





Matilda chooses one of her friends at random.

(a) Describe the chance that the friend's favourite sport is cricket. Circle the best expression from those below.

[1]

impossible unlikely a

an even chance

likely

certain

(b) Describe the chance that the friend's favourite sport is rugby. Circle the best expression from those below.

[1]

impossible

unlikely

an even chance

likely

certain

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Give	he perimeter of the he units of your ar	e rectangle nswer.	below.		[3]
			=		
/->	Write down the no	ext number 79,		ence. 95,	 [1]
(a)					



7.	(a)	Simplify	5k -	8k +	6 <i>k</i> .
----	-----	----------	------	------	--------------

[1]

Solve these equations. (b)

(i)
$$15 + x = 60$$

[1]

20 - y = 9(ii)

[1]

(iii)
$$6w = 54$$
 [1]

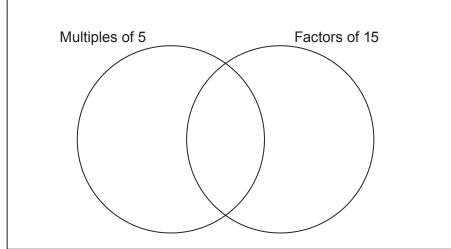
The Venn diagram below is used to show

- multiples of 5
- factors of 15.

Place the numbers 1, 3, 5, 10 and 15 in the Venn diagram.

[2]

3





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9.	Write	dowr	n the value of each of the following.		Examiner only
	(a)	(i)	7 ²	[1]	
		(ii)	√81	[1]	
	(b)	(i)	Write 19-731 correct to 1 decimal place.	[1]	
		(ii)	Write 65·4279 correct to 3 decimal places.	[1]	
10.			gram, mark the point C with a cross (×) so that: $C = 55^{\circ} \text{ and}$		
	•	BC:	2 = 55 and = 7·4 cm	[2]	
	Α		В		



11.	Ifan has chosen four odd numbers. Some of the numbers are the same and some of them are different. Ifan's numbers are all less than 10.						
	Both the mode and the mean of Ifan's numbers are 7.						
	What numbers has Ifan chosen?	[3]					
	Ifan's numbers are]					
12.	Evaluate each of the following.						
	(a) 0.8×0.25	[1]					
		· · · · · ·					
	(1) 40 4 000	F41					
	(b) 13·4 − 2·96	[1]					



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13.	(a)	Which of the fol	Which of the following is the nearest value to 488 grams? Circle the correct answer. [1]				
		0·5 kg	500 kg	50 kg	5 tonnes	0·05 kg	
	(b)	Circle the corre					[1]
		1500 m	24 km	15 km	2·4 km	3000 m	
14.	The i	nth term of a seq	uence is given	by 5 <i>n</i> - 1.			
	Calc	ulate the sum of t must show all you	the first three te				[3]
		Sur	m of the first thr	ee terms =			



15. In the diagram below, *ABC* is a right-angled triangle and *CDE* is an isosceles triangle.

 $\widehat{ABC} = 90^{\circ}$, $\widehat{BAC} = 64^{\circ}$ and $\widehat{CD} = \widehat{CE}$. \widehat{AD} and \widehat{BE} are straight lines intersecting at \widehat{C} .

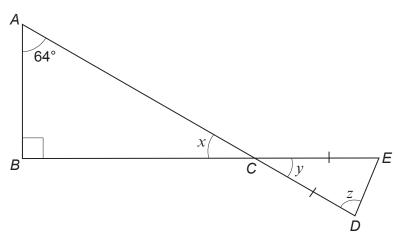


Diagram not drawn to scale

alculate the size of each of the angles x , y and z .							



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(a) She starts to draw a table using five groups, as shown below.					٦		
	Total points	0 to 3	4 to 7	8 to 11	to	to	
	Number of competitors						
	Explain why thes	se arouns wil	ll not he suit:	ahle			[1]
							······································
							······································
n)	Signed consider	e using the t	ahle shown l	nelow			
0)	Sioned consider She decides that	t it is suitable	e for recordin	ng all the total	points in gro	ups of equa	
5)	Sioned consider She decides that Fill in the two mis	t it is suitable	e for recordin	ng all the total	points in gro	ups of equa	l width. [1]
b)	She decides that	t it is suitable	e for recordir ers in the top	ng all the total		ups of equa	
b)	She decides that Fill in the two mis	t it is suitable ssing numbe	e for recordir ers in the top	ng all the total row.			
b)	She decides that Fill in the two mist Total points Number of	t it is suitable ssing numbe	e for recordir ers in the top	ng all the total row.			
(b)	She decides that Fill in the two mist Total points Number of	t it is suitable ssing numbe	e for recordir ers in the top	ng all the total row.			
	She decides that Fill in the two mist Total points Number of	t it is suitable ssing numbe	e for recordir ers in the top	ng all the total row.			
	She decides that Fill in the two mistorial points Number of	t it is suitable ssing numbe	e for recordir ers in the top	ng all the total row.			
	She decides that Fill in the two mistorial points Number of	t it is suitable ssing numbe	e for recordir ers in the top	ng all the total row.			



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(c) Finally, Sioned decides to use the groups shown in the table below. The results for the first 100 competitors are shown in the table.

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Total points	0 to 2	3 to 5	6 to 8	9 to 11	12 to 14	15 to 17	18 to 20
Number of competitors	5	10	17	22	23	12	11

One	of these 100 competitors is chosen at random.	
(i)	What is the probability that this competitor scored 6, 7 or 8 points?	[1]
(ii)	Explain why the following statement may be incorrect.	[1]
	The probability that this competitor scored 19 points is $\frac{11}{100}$.	
•••••		
•••••		

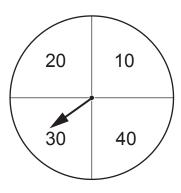


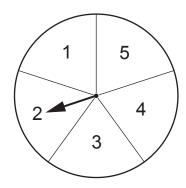
17.		Express 96 as a percentage of 300.	[2]
	•••••		
	(b)	Share £48 in the ratio 1 : 7.	[2]
	•••••		



18.	Ahmed organises a game using two fair spinners, as shown below.
	The first spinner shows the values 10, 20, 30 and 40.
	The second spinner shows the values 1, 2, 3, 4 and 5.

Examiner only





In the game, the two spinners are spun and the values shown are added to give a score. For example, the spinners above score 32.

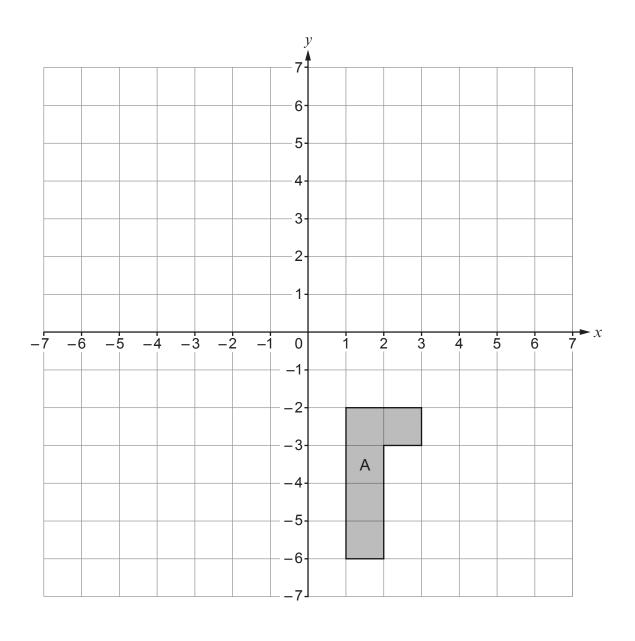
Ahmed charges £1 for each attempt at the game. Any player who scores **43 or more** wins £5.

Calculate Ahmed's expected profit when this game is played 100 times.	[7]
	· · · · · · · · ·





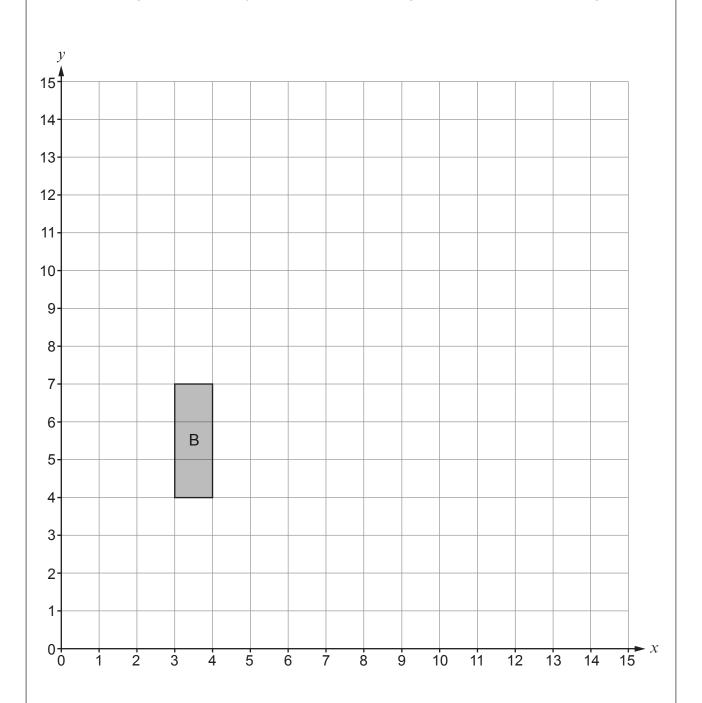
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(b) Enlarge the shape B by a scale factor of 2, using (1, 3) as the centre of enlargement. [3]

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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examine: only



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