Class Maths PREDICT PAPER	ED Video Solutions	
Centre Number Candid Surname Forename(s) Signature	date Number	
GCSE MATHEMATICS Foundation Tier Paper 3 Calculator Allo Monday 7 November 2022 Morning	owed Time allowed: 1 hour 30 mi	∎ I
Student Self Reflection		
Topics/Question I need to <i>revise</i>	For teacher us	se
	Pages Ma	rk
	2-3	
	4-5	
	6-7	
	8-9	
opics/Questions I need to learn	10-11	
	12-13	
	14-15	
	16-17	
	18-19	
	20-21	
	22-23	
	24-25	





	Answer all questions in the spaces provided.				Do noi outsic bo
1	What is 3.1415 to 3 dec	imal places?			[1 mark]
	Circle your answer.				
	3.14	3.141	3.142	3.15	
2	Circle the cube number.				[1 mark]
	3	6	9	27	
	C C	Ū	U		
3	Here is a number line.				
	2		A	3	
	Which number is at A?				
	Circle your answer.				[1 mark]
	2.6	2.7	2.8	2.9	



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0	@1stclassmaths 6	
8 (a)	Solve 10 + 4 <i>x</i> = 46	Do not o outside box [2 marks]
	<i>x</i> =	
8 (b)	Lucy solves an equation. Her working is shown below.	
	$\frac{x}{2} + 4 = 10$ $x + 4 = 20$	
	<i>x</i> = 16	
	Explain the mistake that Lucy has made.	[1 mark]



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A school fair has 4 games.

The probabilities of winning each of the games are shown below.

Game A	Game B	Game C	Game D
0.3	$\frac{7}{20}$	0.07	34%

Write the games in order of how likely they are to be won. Start with the least likely.

[2 marks]

Do not write outside the box

12 Adam makes cupcakes to sell. He makes 15p profit on each cupcake that he sells. In 5 hours he can make 240 cupcakes.

Answer

During one week he makes cupcakes for 12 hours. How much profit does he make from the cupcakes made in 12 hours. [3 marks]

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15	1 pound (£) = 1.16 Euros (€) 1 Croatian Kuna (kn) = 0.13 Euros (€) Convert £400 into Croatian Kuna (kn) Give your answer to the nearest integer.	Do r outs	not writ tside the box
	Answer	ĸn	
16	The first 5 terms of a linear sequence are shown below.		
	Work out the 100 th term of the sequence.	[2 marks]	
	Answer		
			3
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A hote	el swimming poo	ol has a capaci	ty of 27 000 litro	es.	
The po	ool is initially en	npty but then fil	led by a 2 pum	ips.	
Each	oump adds 230	litres of water	per minute.		
Show	that the pool ca	n be filled in ur	nder 1 hour usi	ng the 2 pumps.	[3 marks]
Grace	has three diffe	rent metal bloc	ks. A. B and C		
Grace	has three diffe	rent metal bloc	ks, A, B and C.		
Grace Each	has three diffe block has the sa	rent metal bloc ame mass.	ks, A, B and C.		
Grace Each	has three diffe block has the s	rent metal bloc ame mass. Block A	ks, A, B and C. Block B	Block C	
Grace Each	e has three diffe block has the sa Density (g/cm ³)	rent metal bloc ame mass. Block A 20	ks, A, B and C. Block B 40	Block C	
Grace Each	e has three diffe block has the sa Density (g/cm ³) Volume (cm ³)	rent metal bloc ame mass. Block A 20 4	ks, A, B and C. Block B 40	Block C 10	
Grace	e has three diffe block has the sa Density (g/cm ³) Volume (cm ³)	rent metal bloc ame mass. Block A 20 4	ks, A, B and C. Block B 40	Block C 10	
Grace Each	has three diffe block has the sa Density (g/cm ³) Volume (cm ³)	rent metal bloc ame mass. Block A 20 4	ks, A, B and C. Block B 40	Block C	[2 marks]



		_
		Do out
1 (a)	Here is a rule for a sequence.	
	After the first two terms, each term is the sum of the previous two terms.	
	The first five terms are 6 <i>a b</i> 24 39	
	Work out the values of <i>a</i> and <i>b</i> . [2 marks]]
	<i>a</i> =	
	<i>b</i> =	
1 (b)	Is the number 3001 in the sequence? Explain your answer fully. [1 mark]	1

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22 Some students from different year groups were given a maths problem to try.

The table below shows information about how many were correct or incorrect.

	Year 7	Year 9
Correct Answer	12	10
Incorrect Answer	18	30
Relative Frequency of Correct Answers		0.25

22 (a) Complete the table.

22 (b) 60 Year 11 students also did the maths problem.

[2 marks]

[1 mark]

The relative frequency of correct answers for Year 11 was the same as the relative frequency of correct answers for Year 9.

Work out how many Year 11 students gave a correct answer.

Answer___

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25	AOB is a sector. $A \longrightarrow B \longrightarrow B$	Do not write outside the box
	Work out the length of arc <i>AB</i> . Give your answer to 3 significant figures. [3 marks]	
	Answer cm	7
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23			
			Do not write outside the box
Jo and her dog both run 400 metres. Jo's dog runs at an average speed of 10	m/s.		
The ratio of Jo's dog's average speed to	Jo's average speed is 4 : 1		
Work out how many seconds it takes Jo	to run the 400 metres.	[3 marks]	
Answer	seco	nds	

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		outside the box
29	a, b and c , are integers with $a < b < c$.	
	<i>a</i> = 24.	
	<i>a</i> is equal to $\frac{3}{8}$ of <i>c</i> .	
	The mean of a , b and c is 40.	
	Work out the value of b. [4 marks]	
	<i>b</i> =	
	END OF QUESTIONS	
		7



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