Centre Number Candidate Number Surname Forename(s) Signature GCSE MATHEMATICS Foundation Tier Paper 3 Calculator Allowed Monday 13 June 2022 Morning Time allowed: 1 hour 30 minutes Student Self Reflection Topics I need to revise Topics I need to revise Silly Mistakes? Silly Mistakes? Target mark for next time	Class Maths PREDICTER PAPER	Vi	deo Solu	utions
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Target mark for next time 20-21 22-23 TOTAL			10-17	
Target mark for next time 22-23 TOTAL			20-21	
TOTAL	Target mark for next time		22-23	
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Answer all questions in the spaces provided.							
1	Circle the va	alue of the dig	it 7 in the num	ber 2741.5		[1 mark]	
		70	700	7000	70000		
2	Circle the fra	action which is	s equal to 60%)		[1 mark]	
		<u>3</u> 5	<u>1</u> 60	<u>1</u> 40	<u>3</u> 20		
3	Convert 5 $\frac{1}{2}$	metres into c	entimetres.				
	Circle your a	answer.				[1 mark]	
		5.5 cm	55 cm	550 cm	5500 cm		





Work out	$\left(\frac{3^2}{10}\right)^3$				
Circle your a	answer.				[1 mark]
	0.027	0 720	0.0	656 1	
	0.027	0.729	0.9	000.1	
Work out ho	w many secc	onds there are i	n 12 hours.		[2 marks]
	A a a u				
	Ansv	ver			seconas

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The table show information about how people travel to school. 6

Travel Method	Frequency
Walk	12
Bike	14
Car	4
Bus	1

Draw a bar chart to show the information.

[3 marks]







			Do not write outside the box
7		Here is a regular polygon.	
7	(a)	Write down the name of the regular polygon. [1 mark]	
		Answer	
7	(b)	Write down the order of rotational symmetry of the regular polygon. [1 mark]	
		Answer	
7	(c)	Draw all of the lines of symmetry onto the regular polygon. [1 mark]	
			6
		Turn over ►	

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6 A company sells 16 GB and 8 GB mobile phones. All customers are given the option to purchase a phone cover. During one week the company sells: 52 of the 16 GB phones. 79 of the 8 GB phones. 60 phone covers. Half of the customers who bought the 16 GB phone bought a phone cover. Complete the frequency tree 8 (a) [4 marks] Phones Phone Phone Sold Туре Cover Yes 16 GB No Yes 8 GB No



The table below shows how much profit the company makes for each sale. 8

Phone	Profit
16 GB	£15
8 GB	£12.80

The company also makes 60p profit for each phone cover sold.

8 (b) Calculate the total profit made by the phone company in this week. [3 marks]

Answer £



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7

8





4.0				_		Do not writ outside the box
10	Dave visits a	snooker snop to	o test out some nev	v snooker cues.		
			Cue A	Cue B		
	Numb	er of pots	23	36		
	Number	of misses	27	44		
	Tota	l Shots	50	80		
10 (a)	Write down ar	n estimate for th	e probability that D	ave pots a ball using cu	e A. [1 mark]	
		Answe	r			
10 (b)	Write down ar	n estimate for th	e probability that D	ave pots a ball using cu	e B. [1 mark]	
		Answe	r			
10 (c)	Which cue do	es Dave pot bal	Is better with?			
	Tick one box					
	C	le A				
	C	ue B				
	Give a reason	for your answe	r.		[1 mark]	
						$\left \frac{1}{6} \right $





10

Simplify fully $6a^2 - 7a - a^2 + 3a$	[2 marks]
Answer	
Dean thinks of a number.	
His number is a factor of 200.	
His number is also a multiple of 8.	
Work out two possible numbers that Dean would be thinking of.	[3 marks]
Answer and	





11

A bag contains only red, green and yellow counters.	
The ratio of red, green and yellow counters is 2 : 6 : 5	
Anja claims that there are 50 counters in the bag.	
Show that Anja cannot be correct.	[2 marks]
Here is a diagram with some angles labelled.	
Lines PQ and RS are parallel.	
P Q S	
$\left(\begin{array}{c} a & b \\ c & c \end{array}\right)$	
$\frac{a}{c}$ Circle the letter of the angle that is alternate to angle <i>x</i> .	[1 mark]
$\frac{a}{b}$ R Circle the letter of the angle that is alternate to angle <i>x</i> . $a \qquad b \qquad c$	[1 mark]
$\frac{a}{b}$ Circle the letter of the angle that is alternate to angle <i>x</i> .	[1 mark]
$\frac{a}{c}$ Circle the letter of the angle that is alternate to angle <i>x</i> . $a \qquad b \qquad c$	[1 mark]



15 Lara collects marbles.

Each of her marbles is a sphere with radius 4 mm.

Her marbles are stored in a cylindrical container with radius 4 mm.

Her current container has space for 3 marbles.

Marbles stacked in container

Marbles are stacked on one top of another as shown in the diagram below.

One marble



Lara purchases a new container.

It has the same radius as her old container but the height is 15 cm.

Work out the maximum number of marbles Lara can stack in her new container.

[3 marks]

Answer		



16	Here is a formula for the price of a taxi	Do not wri outside th box
	P = 2.50 + 1.85m	
	<i>P</i> is the price of the taxi in pounds. <i>m</i> is the number of miles travelled	
16 (a)	How much does a 7 mile journey cost? [2 marks]	
	Answer £	
16 (b)	A journey has a price of £41.35	
	Work out how long the journey is in miles. [3 marks]	
	Answermiles	
		8





Do not write outside the box Here is a compound shape. 17 Not drawn 6 cm accurately 3 cm 8 cm 11 cm 4 cm 8 cm Work out the perimeter of the shape. Give the units of your answer. [4 marks] Answer _

















17







22	Work out the highest common factor (HCF) of 36 and 120	[2 marks]	Do not write outside the box
		נצ וומרגסן	
	Answer		
23	A packet of crisps has a mass of 25 grams (to the nearest gram).		
23 (a)	Complete the error interval for the mass of the packet of crisps.	[2 marks]	
	Answer g ≤ mass <	g	
	A multipack of original contains 12 of the individual packets		
(1)	A multipack of chisps contains 12 of the individual packets.		
23 (b)	Complete the error interval for the mass of the multipack of crisps	[.] [1 mark]	
	A		
	Answer g ≤ mass <	g	





24 (a)	The first two terms of a geometric progression are shown.		Do not wri outside th box
	32 24		
	Work out the third and fourth terms.	[2 marks]	
	Third Term		
	Fourth Term		
24 (b)	An arithmetic progression is shown below.		
	20 18 16 14		
	Work out the n^{th} term.	[2 marks]	
	Answer		
		Turn over ►	9
		Turn over ►	
			10-120-5

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Do not write outside the $\mathbf{a} = \begin{pmatrix} 7 \\ -3 \end{pmatrix} \qquad \mathbf{b} = \begin{pmatrix} -3 \\ 6 \end{pmatrix}$ box 25 Work out 2a + b [2 marks] Answer Ryan and Amy share £315 in the ratio 4 : 5 26 [3 marks] Work out how much money Ryan receives. Answer £ ____



27 The table below shows information about how students travel to school.

	Walk	Car	Other
2018		220	62
2019	114		48
Total	246		110

Between 2018 and 2019 the number of students coming by car increases by 30%

Complete the table.

[4 marks]

Turn over ►



9

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23

20	
Wade runs a 400m race in 60 seconds.	
He runs the first 300m of the race at an average speed of 7.5 m/s	
Work out his average speed for the last 100m of the race.	
	[3 marks]
Answerr	n/s
END OF QUESTIONS	

