Please write clearly in	n block capitals.	
Centre number	Candidate number	
Surname		
Forename(s)		
Candidate signature	I declare this is my own work.	

GCSE MATHEMATICS

Foundation Tier Paper 2 C

Friday 10 November 2023

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments
- the Formulae Sheet (enclosed).

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.









Morning

Paper 2 Calculator

	Answer all questions in the spaces provided.		
1	Convert 800 centimetres to metres.	[1 mark]	
	Answer	m	
2	The temperature was -11° C and increases by 5°C Work out the new temperature.		
		[1 mark]	
	Answer	°C	









Do not write outside the box

[3 marks]

C	omplete	the	hank	statement
C	omplete	แเธ	Dalin	Statement.

6

7

Date	Description	Credit (£)	Debit (£)	Balance (£)
01/11/2021	Starting balance			736.28
05/11/2021	Rent		450.00	
14/11/2021	Refund	25.00		
27/11/2021	Wages	1830.29		

Put all the numbers 4, 5, 6, 10 and 20 into the grid so that the numbers in each row and each column **multiply** to 120

[3 marks]



0 5

10





9		Connor is estimating the answer to 385 + 1479	
9	(a)	He rounds each number to the nearest 10 Work out his estimate.	[2 marks]
		Answer	
9	(b)	Connor says, "My estimate will be more than the exact answer." How does he know this without working out the exact answer ?	[1 mark]
		Turn over for the next question	



Do not write outside the box

10		Here are the solarion in f. of the fewerkers in a company	Do not write outside the box
		There are the salaries, in L, of the o workers in a company.	
		18300 20700 21500 21500 21500 99000	
10 (a	a)	Work out the mean salary.	
	,	[2 marks]	
		Answer £	
10 (k	b)	Why is the mean not the best average to represent the salaries? [1 mark]	



44	Zao'a maga ia EE	kilograma			Do not write outside the box
11	Zoe's mass is 55	kilograms.			
	Work out her mas	ss in stones and pounds.			
	Use 1 kilogra	am = 2.2 pounds			
	14 poun	ds = 1 stone		[3 marks]	
	Answer	stone	es	pounds	
		Turn over for the next	question		
					6



			Do not write outside the
12 (a)	A sauce is made from cream and stock in the ratio $arcomic stock = 1 + 6$		
	Cream Stock - 1.0		
	How much sauce can be made using 80 millilitres of cream?	[2 marks]	
	Answerml		
12 (b)	A different sauce is made from olive oil and tomato juice in the ratio		
	olive oil : tomato juice = 1 : 14		
	What fraction of this sauce is olive oil?	14 maanki	
		[1 mark]	
	Δρομοτ		
]



13		Multiplying y by 6 gives the same result as adding 15 to y	
13	(a)	Write this as an equation.	[2 marks]
		Answer	
13	(b)	Show that the value of y is not 4	[1 mark]
		Turn over for the next question	



Do not write outside the box 14A golf club is organising a trip for 42 people.The costs are shown in the table.

Minibus hire	£450 per minibus
Fuel	£26 per minibus
1 game of golf	£18.50 per person

Each minibus can hold 15 people.

Each person will play 2 games of golf.

The cost of the trip will be shared equally by the 42 people.

Work out the cost per person.

[5 marks]

Do not write outside the box

Answer £



Here are the first nine results. 6 1 3 2 1 5 5 5 5 Write down the probability of getting a 5 on the tenth roll. [1 mark] Answer 16 $r: w = 1:4$ Write down the ratio $r^2: w^2$ [1 mark] Answer:	utside the box
6 1 3 2 1 5 5 5 6 Write down the probability of getting a 5 on the tenth roll. [1 mark] Answer 16 $r: w = 1:4$ Write down the ratio $r^2: w^2$ [1 mark] Answer :	
Write down the probability of getting a 5 on the tenth roll. [1 mark] Answer	
Answer	
16 $r: w = 1:4$ Write down the ratio $r^2: w^2$ [1 mark] Answer	
16 $r: w = 1:4$ Write down the ratio $r^2: w^2$ [1 mark]	
Write down the ratio r ² : w ² [1 mark]	
Answer :	
Turn over for the next question	
	7







4.5						Do not write outside the box
18	A box contains 36	chocolates.	have bard or caf	t controc		
			nave naru or son	centres.		
	$\frac{4}{9}$ of the ch	nocolates have so	ft centres.			
	There are t	wice as many mill	k chocolates as d	ark.		
	5 of the dar	rk chocolates have	e soft centres.			
18 (a)	Complete the two-	way table.			[4 marks]	
			Hard	Soft		
			centre	centre		
		Milk				
		Dark		5		
	On a sharadata isa					
	One chocolate is c	nosen at random.				
18 (b)	What is the probab	pility that it is a da	rk chocolate with	a soft centre?	[1 mark]	
	μ	Answer				
					-	
18 (c)	What is the probab	oility that it has a h	nard centre?			
					[1 mark]	
	F	Answer			_	
						8















Shop A	Shop B	Shop C
£2.39 each	£3.08 each Buy one, get one half price	Pack of 4 Was £11.40 Now $\frac{1}{6}$ off
Which shop is the best va Show working to support	alue for 8 sticks and what is the to your answer.	otal cost in that shop? [5 mark
Which shop is the best va Show working to support	alue for 8 sticks and what is the to your answer.	otal cost in that shop? [5 mark









07	Techo drova 100 mileo		Do not write outside the box
27	Tasha drove 198 miles.		
	Her average speed for the rest of the journey was 31.5 miles per hour		
	Work out her average speed for the whole journey		
	work out her average speed for the whole journey.	[4 marks]	
	Answer miles per hour		
	Turn over for the next question		
			7

Here is the term-to-term rule for a sequence.	
Double the previous term and add 3	
The first three terms of the sequence are $a + 1 = 2a + 5 = 4a$	<i>a</i> + 13
Show that the sum of the first four terms is a multiple of 3	[3 marks]

A straight line passes through (3, 14) and (12, 32)	
Work out the equation of the line.	
Give your answer in the form $y = mx + c$	[3 marks]
	[o marks]
Answer	
END OF QUESTIONS	

Question number	Additional page, if required. Write the question numbers in the left-hand margin.

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