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GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

• mathematical instruments

You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- 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.
- 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.

For Examiner's Use			
Pages	Mark		
2 - 3			
4 - 5			
6 - 7			
8 - 9			
10 - 11			
12 - 13			
14 - 15			
16 - 17			
18 - 19			
20 - 21			
22 - 23			
24			
TOTAL			





1 (a)	Write $\frac{1}{10}$ as a percentage.	[1 mark]
	Answer%	
1 (b)	Write 0.9 as a percentage.	[1 mark]
	Answer%	
2	Write $\frac{8}{10}$ as a fraction in its simplest form.	[1 mark]
	Answer	
3	Simplify $7y + 4x - 2y + 3x$	[2 marks]
	Answer	

This table shows what 20 students do for lunch.

4

Sandwiches	School dinner	Go home
7	5	8

Draw a bar chart to show this information.

[4 marks]

Turn over for the next question

5	Write these numbers in order, starting with the smallest.				[1 mark]	
		7.1		7.11	7	7.01
		Answer				_
6	Work out	46 – 2.5 × 4				[2 marks]
		Answer				

Here are three events for an ordinary fair dice. A Roll an odd number B Roll a number greater than 6 C Roll a 3 Draw and label arrows to show the probabilities of events B and C on the probability scale.
[2 marks]

Turn over for the next question

1

7



9	68 students go on a school trip. Each student will be given a bottle of water. Bottles are available in packs of 10. How many of these packs are needed?	[3 marks]
	Answer	
10	There are 10 discs in a bag. 5 are red, 3 are green and the rest are blue	
	A counter is chosen at random.	
	Work out the probability that it is blue.	[2 marks]
	Answer	



8300/1F 2023 Practice Paper Set 1

12	(a)	Work out the value of	2 ³	[1 mark]
		Answer		
12	(b)	Work out the value of	10 ⁴	[1 mark]
		Answer		
12	(c)	Work out the value of	√144	[1 mark]
		Answer		
13		Solve 2 <i>x</i> - 7 = 10		[2 marks]
			x =	

14	Ian has 80p. Sam has £4.	
	Sam gives Ian some money so that they both have the same amount.	
	How much does Sam give to Ian?	[2 marks]
		[2 marks]
	Answer £	



16 A small theatre has:

21 rows of seats

9 seats in each row

Adult tickets are £8 each.

Child tickets are £5 each.

The theatre has sold tickets for every seat.

The manager estimates that £1250 was raised from these tickets.

90 child tickets were sold.

Check whether the manager's estimate was close to the exact amount of money raised.

[6 marks]

17	Here is some info	ormation about a group	of animals.	
		Cats	Dogs	
	Dark fur	15	7	
	Light fur	5	14	
17 (a)	Write down the n Give your answe	umber of dark fur dogs t r in its simplest form. Answer	o light fur dogs as a rati	0. [1 mark]
17 (b)	What percentage	of the cats have dark fu	ır?	[2 marks]
		Answer		%
18	Ding says, "If you o Is he correct? Write down a cal	livide any multiple of 5 k culation to support your	by 2 the answer is never answer.	r a whole number." [1 mark]
				_



20	Here is a formula.	
	$V = \frac{1}{2} x^2 h$	
	2	
	Work out the value of V when $x = 10$ and $h = 7$	[2 marks]
	Answer	
21	Pens are sold in hoves of 10	
21	Pencils are sold in boxes of 8	
	Rulers are sold in boxes of 5	
	A teacher wants to buy the same number of pens, pencils and rulers.	
	Work out the smallest number of boxes of each item he could buy.	
		[3 marks]
	boyos	of pops
		or pens
	boxes	of pencils
	boxes	of rulers



22	22 (c) Use a line of best fit to estimate the number of tests needed to pass by a pe 50 lessons.				
		[2 marks]			
		Answer			
22	(d)	Selma says,			
		"I can use the trend to predict the number of driving tests needed to pass for any number of driving lessons."			
		Comment on their statement.			
23		Which of $\frac{7}{8}$ or $1\frac{1}{5}$ is closer in value to 1?			
		You must show your working.			
		Answer			











28 (b)		Describe the race. Mention each runner at least once.	[3 marks]		
		Turn over for the next question			

