Please write clearly in	block capitals.		
Centre number		Candidate number	
Surname			
Forename(s)			
Candidate signature			 ,

GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

Thursday 2 November 2017

Morning

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.





	A	nswer all quest	ions in the sp	aces provided		
1	Circle the decimal	which has the s	ame value a	s		[1 mark]
	0.06	C	.35	0.6	3.5	
2	How many millime Circle your answe		17.5 centime	tres?		[1 mark]
	0.75	70.5	75	750	7500	
3	Which of these sha Circle your answe		es of symme	try?		[1 mark]
	Semicircle	Rhombu	s Tr	apezium	Isosceles triar	ngle













A library book was due to be returned on 27 September.	
It was actually returned on 14 October.	
There is a fine of 8p for every day the book is late.	
Work out the total fine.	
	[3 marks]
Answer £	







[3 marks]

10	Complete the table to show equivalent fractions and percentages.	

Fraction	Percentage
$\frac{1}{2}$	50%
<u>3</u> 10	
	43%
$\frac{5}{2}$	







Turn over ►

12 (a)	How many edges are th Circle your answer.	ere on a square-based	pyramid?	[1	mark]
	4	5	8	12	
12 (b)	How many faces of a tria Circle your answer.	angular prism are trian	gles?	[1	mark]
	2	3	4	5	
13	A bus can be early, on t The probability that th The probability that t Work out the probability	ne bus is early is 0.1 he bus is on time is 0.6)	[2	marks]
	Answe	er			





Turn over for the next question



14

Turn over ►

15	5% of a number is 31 1% of the same number is 6.2	
	1% of the same number is 0.2	
	Work out 13% of the number.	[3 marks]
	Answer	



16	Complete the grid so that when you
----	------------------------------------

multiply the three numbers in any column, row or diagonal the answer is 1

[3 marks]

10		<u>1</u> 2
1 20		20
2	5	

Turn over for the next question











19	Use	2 gallons = 9 litres	to convert 17 gallons into litres.	[3 marks]
		Answer		litres















21 (c) Here is a rectangle.

⊢

 \vdash

⊢

⊢

⊢

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F

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⊢

F

F

⊢



Using a pair of compasses and a straight edge, construct **one** line of symmetry. Show clearly your construction arcs.

[2 marks]



22	x: y = 7:4	
	x + y = 88	
	Work out the value of $x - y$	[3 marks]
	Answer	
	Turn over for the next question	
	·	
		Turn over ►



23 Anil's home is 1 km from a shop.

He walked from home to the shop at a constant speed in 10 minutes.

He stayed at the shop for 5 minutes.

He walked home at a constant speed in 8 minutes.

Anil drew this distance-time graph to represent his journey.



Make **two** criticisms of his graph.

[2 marks]

Criticism 1 ______







Turn over ►









Turn over ►





	27		Do not write outside the box
28 (a)	Write in standard form 12 500	[1 mark]	
	Answer		
28 (b)	Write as an ordinary number 3.4×10^{-2}	[1 mark]	
	Answer		
29	Work out the value of $(\sqrt{3})^2 \times (\sqrt{2})^2$	[2 marks]	
	Answer		
	Turn over for the next question		
			6







31 (a)	Factorise $x^2 - 100$	[1 mark]
	Answer	_
31 (b)	Solve $7x + 6 > 1 + 2x$	[2 marks]
	Answer	
	END OF QUESTIONS	



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