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

GCSE MATHEMATICS (LINEAR)

Foundation Tier Paper 1

Wednesday 4 November 2015

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.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 70.
- The quality of your written communication is specifically assessed in Questions 14 and 20. These questions are indicated with an asterisk (*).
- You may ask for more answer paper, tracing paper and graph paper. These must be tagged securely to this answer book.

Advice

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





Morning



Time allowed: 1 hour 15 minutes











2	Work out 12	$\div 1\frac{1}{2}$			[2 marks]
		Answer			
3	John buys a ma He pays with a	agazine for £1.49 a £5 note.	nd a newspaper fo	or 55p	
	How much cha	nge does he get?			[2 marks]
		Answer £			
4	Put these numb Start with the s				[1 mark]
	1.04	1.43	1.4	1.34	
		Answer	,,	,	



5 (a)	Solve	$\frac{w}{2} = 14$		[1 mark]
		<i>w</i> =		
5 (b)	Simplify fu	lly 3 <i>x</i> -	- 4 – 5 <i>x</i> – 7	[2 marks]
		Ans	wer	
5 (c)			4a + 5b when $a = 4$ and $b = 1$	[2 marks]
		Ans	wer	
			Furn over for the next question	



Turn over ►

6 (a)	Draw an ar	an arrow to show 640 on the scale.				
		600 7	00 800			
	Here is a ta	able of postage costs.				
		Mass	Cost of posting			
		0 – 100 grams	£0.93			
		101 – 250 grams	£1.24			
		251 – 500 grams	£1.65			
		501 – 750 grams	£2.38			
6 (b)	How much		a 640 gram letter than a 64 gra	[2 marks]		
		Answer £				
6 (c)	How many	150 gram letters can be po	osted for £10?	[2 marks]		
		Answer				





10

Turn over 🕨



9	Here are f	ive numbers.				
	7	11	8	12	7	
9 (a)	Write dow	n the mode.				[4 month]
						[1 mark]
		Answer				
9 (b)	Work out t	he mean.				[2 marks]
		Answer				
10 (a)	Circle the	two values that	are less than a l	nalf.		[1 mark]
	1			Λ		[]
	$\frac{1}{2}$	55%	0.45	$\frac{4}{7}$	30%	
10 (b)	Circle the	two values that	are equal.			[1 mark]
	<u>1</u> 3	20%	0.15	<u>1</u> 5	30%	
	3			5		
10 (c)	Circle the	fraction that is re	ecurring when w	ritten as a deo	cimal.	[1 mark]
				2		[1 mark]
	$\frac{1}{2}$	<u>1</u> 3	$\frac{3}{4}$	$\frac{3}{2}$		





Turn over ►

10

12 (a)	Circle the two pri	me numbers.				[2 marks]
	11	21	23	39	45	
12 (b)	Write down any t y	vo prime numbe	rs that add up to	a cube number.		[2 marks]
		Answer		and		





Turn over ►





15	A shape is made from a rectangle R and a square S.						
	R S	Not drawn accurately					
	The shape has a perimeter of 44 cm The area of the square is 36 cm ²						
	Work out the area of the shape.	[4 marks]					
	Answer	cm²					
	Turn over for the next question						

Turn over ►











20	Fay is testing an ordinary six-sided dice to see if it is biased.								
	She throws	s the dice	120 times.						
20 (a)	Work out th	ne number	r of times t	the dice is	expected	to land on	1	[1 mark]
		Ar	nswer						
*20(b)	Here are th	ne actual r	esults.						
	Number on dice	1	2	3	4	5	6	Total	
	Frequency	5	19	17	20	21	38	120	
	Is the dice Tick a box. Yes		Nc			Cannot t		1	
	Give a reas	son for you		,		Cannot		[2	marks]



Turn over ►

21	These expressions represent four numbers.
	$2x+2 \qquad \qquad$
	The sum of the first two expressions is 36
	Work out the value of the median of the four numbers. [5 marks]
	Answer
	Allswei
	END OF QUESTIONS









booklet rather than including them on the examination paper or support materials. This booklet is published after each examination series and is available for free download from www.aqa.org.uk after the live examination series.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team, AQA, Stag Hill House, Guildford, GU2 7XJ.

Copyright © 2015 AQA and its licensors. All rights reserved.

