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

GCSE MATHEMATICS (LINEAR)

Foundation Tier Paper 2

Friday 6 November 2015

Morning

Materials

For this paper you must have:

- a calculator
- mathematical instruments.

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 105.
- The quality of your written communication is specifically assessed in Questions 8, 11 and 18. 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.





Time allowed: 1 hour 45 minutes





		Answer all que	estions in t	he spaces provid	ed.	
1 (a)		kwise to face W es she turn thro				[1 mark]
	45°	90°	180°	270°		
1 (b)	A man is facin He turns 180º	g North-East.				
	In which direct Circle your ans	ion is he facing swer.	now?			[1 mark]
	North	South-West		West	North-West	
		Turn ov	er for the	next question		



Turn over ►

2 (a)	Which two uni Circle your ans		o measure the dis	stance between two	towns?	[2 marks]
	centimetres	metres	kilometres	inches	miles	3
2 (b)	Which two uni Circle your ans		o measure the ma	ass of a mobile pho	ne?	[2 marks]
	grams	ounces	pounds	kilograms	tonnes	
2 (c)	Which two of t Circle your ans		e for the amount	of juice in a full bot	ttle?	[2 marks]
	2000 ml	5000 litres	4 ml	1.5 litres		300 litres



3 (a)	This formula is used to work out the cost, in \pounds , of delivering packs of dog food.	
	Cost = number of packs \times 4 + 8	
	Work out the cost of delivering 12 packs of dog food.	[2 marks]
	Answer £	
3 (b)	This formula is used to work out the cost, in \pounds , of packs of cat food.	
	Cost = number of packs \times 3.5	
	Tom has £20 to buy cat food.	
	Work out the maximum number of these packs he can buy.	[2 marks]
	Answer	
	Turn over for the next question	











Turn over











	Andy has a job for The table shows hi		first 4 days				
	Day	Mon	Tue	Wed	Thu	Fri	
	Pay	£31.50	£40.50	£27	£18		
*8 (a)	Work out the range	of his pay fo	or the first 4	days.			[2 marks]
9 (h)		Answer£					
8 (b)	His mean pay for the How much was his						
		pay on mae					
							[3 marks]
			-				[3 marks]
		Answer £					[3 marks]
	· · · · · · · · · · · · · · · · · · ·	Answer £					[3 marks]











Turn over

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Turn over ►



14	Toni makes 40 dolls.
	She sells $\frac{4}{5}$ of them at one price for a total of £96
	She then reduces the price and sells the rest for a total of £20
	By how much did she reduce the price? [5 marks]
	Answer



15	Here is a sequence of patterns made with squares.				
	Pattern 1 Pattern 2 Pattern 3				
	The rule for working out the number of squares in each pattern is				
	Square the pattern number and then add 2				
15 (a)	How many squares are in pattern 7? [1 mar	k]			
	Answer				
15 (b)	Which pattern has 123 squares? [2 mark	s]			
	Answer				











17	A family uses 300 units of gas.
	Each unit of gas costs 19p without VAT. VAT of 5% is added to the bill.
	Work out the total gas bill. [4 marks]
	Answer £







Turn over ►







Turn over



Abby gets 25% Write Abby's share : Judy's share 22 (a) as a ratio. Give your answer in its simplest form. [2 marks] Answer 22 (b) Judy gets £19.50 How much does Abby get? [2 marks] Answer £



Abby and Judy share some money.

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Here is information about the scores, *t*, of class A in a test.

Score	Frequency	
$0 < t \le 10$	4	
10 < <i>t</i> ≤ 20	8	
$20 < t \le 30$	9	
$30 < t \le 40$	3	
40 < <i>t</i> ≤ 50	1	

The mean score for class B in the same test is 22

Dan says,

"On average, class A did better than class B."

Is he correct? You **must** show your working.

[4 marks]

Answer



Turn over ►

24	a and b are different prime numbers wi	th $a > b$	
24 (a)	Give an example to show that $a^2 + b$	² could be even.	[1 mark]
24 (b)	Give an example to show that $a^2 + b$	² could be odd.	[1 mark]









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.

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