Centre Number			Candidate Number			For Exam	iner's Use
Surname							
Other Names						Examine	r's Initials
Candidate Signature							
						Pages	Mark



General Certificate of Secondary Education Foundation Tier June 2015

4365/2F

Mathematics (Linear)

Paper 2

Thursday 11 June 2015 1.30 pm to 3.15 pm

For this paper you must have:

- a calculator
- mathematical instruments.

Time allowed

• 1 hour 45 minutes

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.
- 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 7, 16 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.

Examine	r's Initials
Pages	Mark
3	
4 – 5	
6-7	
8-9	
10 – 11	
12 – 13	
14 – 15	
16 – 17	
18 – 19	
20 – 21	
22 – 23	
24 – 25	
26 – 27	
28 – 29	
30	
TOTAL	

















2 (c) Here is the same TV programme list. The times are shown using the 12-hour clock system.

Complete the missing times using the 12-hour clock system.

[2 marks]

10:00 am	_	11:45 am	Gymnastics
11:45 am	_	1:15 pm	Basketball
1:15 pm	_	pm	Swimming
pm	_	10:30 pm	Cricket
10:30 pm	_	am	Highlights

Here are some statements about a trapezium.

Tick whether each one is true or false.

[3 marks]









Colour	Blue	White	Yellow
Number in the bag			



























10 (c)	Paul bought three items.	
	He paid with a £5 note. His change was £1.35	
	Which items did he buy?	[3 marks]
	Item 1	
	Item 2	
	Item 3	
10 (d)		
10 (d)	A set has one pen, one ruler, one protractor and one calculator.	
10 (u)	A set has one pen, one ruler, one protractor and one calculator. Work out the maximum number of sets that can be bought with £20	[3 marks]
10 (d)		[3 marks]
10 (d)		[3 marks]
10 (u)		[3 marks]
10 (u)		[3 marks]
10 (d)		[3 marks]
10 (d)		[3 marks]
10 (d)	Work out the maximum number of sets that can be bought with £20	[3 marks]



11 (a)	There are 180 people in a cinema.	
	$\frac{3}{5}$ of the people are adults.	
	$\frac{1}{4}$ of the adults are female.	
	How many of the adults are female?	[3 marks]
	Answer	
11 (b)	30% of the 180 people buy popcorn.	
	How many people buy popcorn?	[2 marks]
	Answer	



12	The stem	i-and-leaf di	agram	shows ho	ow long [Dylan us	sed the int	ternet on 1	5 days.
	2	0	3	4	6	7	8	8	
	3	1	2	4	7	9			
	4	2	3	5					
						Key:	2 3 rej	presents 23	3 minutes
		35 minutes o ge is £1.45 f							
	Work out	the total cha	arge for	using the	e interne	et on the	e 15 days.		[4 marks]
		An	swer £						
			Turn o	over for t	he next	questio	on		



Here are two timetables for trains to London.

13

Sheffield	06:47	07:41	08:27	09:27	10:27
Chesterfield	06:59	07:55	08:39	09:39	10:39
Leicester	07:52	08:52	09:23	10:23	11:23
Kettering	08:14				
London	09:09	10:05	10:34	11:34	12:33

Train timetable Monday to Friday

Train timetable Monday to Friday

Nottingham	06:28	06:49	08:02	09:02	10:02
Leicester	06:57	07:17	08:33	09:33	10:33
Kettering	07:22	07:42	08:56	09:56	10:56
Luton Airport	08:15	08:30	09:34	10:34	11:34
London	08:24	08:43	10:00	11:01	12:00

13 (a) Ryan catches the 06:47 train from Sheffield. He gets off the train at Kettering.

He spends 30 minutes in Kettering station café. He then catches the next train to London.

What time does he arrive in London?

[1 mark]

.....

Answer



13 (b) There are **no direct** trains from Sheffield to Luton Airport.

Lucy wants to go from Sheffield to Luton Airport. She wants to arrive at Luton Airport between 10:00 and 11:00 She wants to leave Sheffield as late as possible.

Complete the places and times to plan her journey.

[4 marks]

Depart	Sheffield	at	
Arrive		at	
Depart		at	
Arrive	Luton Airport	at	

Turn over for the next question



Turn over ►













*16 (b)	Kim buys a carpet for a room.
	The carpet measures 6 metres by 6 metres. Kim pays £390 for the carpet.
	The room measures 5 metres by 5 metres.
	Work out the cost of the carpet she does not use. [4 marks]
	Answer £
	Turn over for the next question











Steve buys the same saddle from Holland for 990 Euros. He pays 15 Euros for delivery.
£1 = 1.18 Euros
Including the delivery charge, whose saddle is cheaper ? You must show your working. [3 marks]
Answer
Answer



Laura buys a saddle in the UK for £850 Delivery is free.

*18

19 (a)	Expand and simplify $3(2x - 1) + 2(x - 3)$	[2 marks]
	Answer	
19 (b)	Write down the whole numbers that satisfy $3 < 2n \le 10$	[2 marks]
	Answer	
19 (c)	Solve $4(3x-5) = 22$	[3 marks]
	<i>x</i> =	





20	A drink is made by mixing 650 ml of water with 150 ml of fruit juice.
	What percentage of the drink is fruit juice? [2 marks]
	Answer%



21 (a)	Divide £720 in the ratio 5 : 1 [2 marks]
	Answer £ and £
21 (b)	Sarah has £135 Gemma has £70 Beth has £35
	Sarah gives some money to Gemma and Beth.
	The ratio of the amount of money Sarah, Gemma and Beth have now is 3:2:1
	How much money did Sarah give to Gemma? [4 marks]
	Answer £

22	The arrow on this spinner is equally likely to land on each section.
	The arrow is spun 72 times.
	How many times do you expect the arrow to land on 4? [2 marks]
	Answer





Turn over











