Centre Number			Candidate Number			For Exam	niner's
Surname							
Other Names						Examine	er's In
Candidate Signature							
						Pages	



General Certificate of Secondary Education Foundation Tier November 2014

43601F

Mathematics

Unit 1

Monday 10 November 2014 9.00 am to 10.00 am

For this paper you must have:

- a calculator
- mathematical instruments.



Use

Time allowed

• 1 hour

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 54.
- The quality of your written communication is specifically assessed in Questions 2, 3 and 8. These questions are indicated with an asterisk (*).
- You may ask for more answer 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.









2	Adam saved the	se amounts.			
	£124	£79.50	£122.50	£96	£85
2 (a)	Work out the ran	ge.			[2 marks]
		Answer £			
*2 (b)	Matthew saved h	alf as much as Adan	۱.		
	Work out the tot	al amount that Matthe	ew saved.		[3 marks]
		Answer £			

Turn over ►

A band played 20 concerts in five continents.

3

Continent	Tally	Frequency
Africa	I	
Asia	I	
Europe	++++ ++++	
North America		
South America	++++	
<u> </u>		Total = 20

*3 (a) Draw a fully labelled bar chart to show this information.

[4 marks]



3 (b)	What fraction of the 2 Give your answer in i	[2 marks]					
	Answer						
4	80 people were asked if they own a car. The table shows some of the information.						
		Yes	No	Total			
	Women	18		35			
	Men	33	12				
	Total			80			
4 (a)	How many men said	yes?			[1 mark]		
	Ar	iswer					
4 (b)	Complete the table.				[3 marks]		

Turn over ►







		Hour ending at	Entering	Leaving	
		8 am	30	6	
		9 am	21	25	
		10 am	75	70	
		11 am	40	38	
(a)	The mu	seum opens at 7 am.			
	Show th	at there were 24 peop	ole in the museum a	at 8 am.	[1 mark]
6 (b)		nat there were 24 peop			
(b)					
(b)					
(b)		any people were in the	e museum at 11 am	?	[1 mark]
(b)		any people were in the	e museum at 11 am		[2 marks]
(b)		any people were in the	e museum at 11 am	?	[2 marks]
(b)		any people were in the	e museum at 11 am	?	[2 marks

7



Turn over ►



Each week she could earn a bonus of £15 or £50

Number of sales in a week	Bonus
Under 25	£0
25 – 30	£15
Over 30	£50

Calculate her total bonus for the 12 weeks.

[2 marks]

Answer £







9 (a) The table shows the times spent on the next four days.

Time on telephone (minutes)	275	150	125	180
Time typing (minutes)	125	190	225	175

Show these times on the scatter graph.

[2 marks]



9 (b)	Draw a line of best fit.	[1 mark]
9 (c)	On another day she spent 200 minutes on the telephone.	
	Use your line of best fit to estimate the time she spent typing that day.	[1 mark]

Answer minutes

Turn over for the next question



	Country visited	Number of tourists (millions)	Total spent by tourists (\$ millions)	
	France	83.0	53 600	
	USA	67.0	126 200	
	Spain	57.7	55 900	
0 (a)	How many more to	urists visited France than	Spain?	[2 marks
	ŀ	Answer	million	
0 (b)		ent by tourists in the USA	-	
0 (b)		ent by tourists in the USA nt spent by Canadian tou	-	[2 marks
0 (b)		-	-	[2 marks
0 (b)		-	-	[2 marks
0 (b)		-	-	[2 marks
0 (b)		-	-	[2 marks
) (b)	Work out the amount	nt spent by Canadian tou	-	[2 marks
D (b)	Work out the amount	nt spent by Canadian tou	rists in the USA.	[2 marks



10 (c)	In the UK the total spent by tourists was \$36 600 million. There were 29.3 million tourists.
	Work out the average spent per tourist in the UK. Give your answer to the nearest \$10 [3 marks]
	Answer \$

Turn over for the next question







11 (b)	A group of people go sailing in the ratio							
		numbe	er of adults : number of children = 1 : 2					
	What f	raction of the g	roup are adults?	[1 mark]				
		An	swer					
11 (c)	On Su	nday all the ch	ildren do the activity they choose.					
	The rat	The ratios for each activity are shown in the table.						
		Activity	Number of adults : number of children					
		Archery	1 : 3					
		Walking	1 : 5					
		Sailing	1:2					
	Work c	out the total nur	nber of adults needed for Sunday.	[3 marks]				
		An	swer					

Turn over ►



12 In a game a team scores

2 points for a win 1 point for a draw 0 points for a loss.

A team plays four games.

There are six combinations of results that score at least 5 points.

Complete the table to show these combinations.

[3 marks]

Number of wins	Number of draws	Number of losses	Total score
4	0	0	8
3	1	0	7



13	Four numbers hav The median is 8	e a mean of 10						
	Two of the numbe	rs are 1 and 5						
	Work out the othe	r two numbers.			[2 marka]			
					[3 marks]			
		Answer	and					
14	Jess wants to know the number of people who live in her street. She carries out a survey.							
	Which two words describe the data she collects? Circle your answers. [2 marks]							
	Primary	Secondary	Discrete	Continuous				
END OF QUESTIONS								













