Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					

In the style of



General Certificate of Secondary Education Foundation Tier

Mathematics

43601F

Past Paper Questions by Topic

Number





For Examiner's Use

Examiner's Initials

Mark

Pages

2 - 3

4-5

6 - 7

8-9

10-11

TOTAL

For this paper you must have:

mathematical instruments.

You must not use a calculator.



Time allowed

• 1 hour 15 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.
- The quality of your written communication is specifically assessed in questions indicated with an asterisk (*)
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer booklet.

Advice

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

	ork out 7500						
١	Vrite your ans	swer in wor	ds.				
•							
•	•••••					•••••	• • • •
	Ans	swer				••••	
٧	/rite 5758 to	the nearest	hundred.				
	Ans	swer					
٧	/hat is the va	lue of the d	igit 3 in the nu	mber 423 985	5?		
	Ans	swer					
V	/rite down the	e positive so	quare root of 1	00			
•							
	Ans	swer			•••••	••••	
		-	one million?				
(Circle your an	swer.					
		10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	

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The heights of three mountains in England are shown.										
		Scafell Pike Helvellyn Skiddaw	978 metres 950 metres 931 metres							
2 (a)	Write down the heig	ht of Scafell Pike	to the nearest 10 metres.							
	Answe	er	metres							
2 (b)			the nearest 100 metresmetres	mark)						
2 (c)	Noah and Will do a	sponsored run.	(1	mark)						
	They both run up each of the three mountains. They									
	are each sponsored for 40p per metre of height. They									
	want to raise at least £2000 altogether.									
	Do they succeed?									
				•••••						
			(4 n	marks)						



3	Use the numbers from this list to answer the questions.								
5	12	13	25	28	30	42	49		
3 (a)	Write down all the	-							
3 (b)	Write down all the						(2 marks)		
		Answer					(2 marks)		
3 (c)	Write down a squa								
							(1 mark)		
3 (d)	Write down three i				and		(1 mark)		
4	Here are two num	bers.							
		fifty tho	usand	6500	1				
	Which number is b	oigger?							
	Give a reason for	your answer	·.						
	Bigger number								
	Reason					•••••			
			•••••		•••••				
							(2 marks)		



5	a,b and c are three positive whole numbers.
	a is one-fifth of c .
	b is one-sixth of c .
	c is less than 100.
	What values could c take?
	Answer
	(5 marks)
6	The numbers 29 and 31 are consecutive prime numbers.
	The number halfway between them is 30.
	30 is not a square number.
	Find a pair of consecutive prime numbers less than 30 where the number halfway between them is a square number.
	Answerand
	(2 marks)



7	Work out $8^2 \div 4^3$										
	Answer(2 marks										
8	You are given that $31.7 \times 24 = 760.8$										
8 (a)	Write down the value of 317×24										
	Answer(1 mark										
8 (b)	Write down the value of 76.08 ÷ 24										
	Answer (1 mark										
8 (c)	Work out the value of 31.7×25										
	Answer (2 marks										

9 (a) What f	In the final of Britain's Got Talent there are 2 singers and 1 magician. raction are singers?
	Answer (1 mark)
9 (b) Write t	The number of votes that the winner receives is 2827273. his number to the nearest million.
	Answer (1 mark)
9 (c) What p	One in every five households watched the final on TV. ercentage of households watched the final?
	Answer% (2 marks)



10	(a)	A century means 1	00 years					
10	(a) (i)	How many yea	rs is half a	century?				
			Answer .					. (1 mark)
10	(a) (ii)	A house is 63 year	s old.					
		How many more year	ars will it be	before bec	omes a ce	entury old?		
			Answer .					. (1 mark)
10	(b)	A race is run over a	a distance c	of fifteen hui	ndred met	res. Write thi	s	
		ince in figures.						
			Answer				metres	(1 mark)
10	(c) W	rite down the square	root of 64.					
	()							
			Answer					. (1 mark)
10	(d)	Two numbers have	e a differenc	e of 40.				
	()	Each number is a fa						
		Work out the two nu	mbers					
				••••••				• • • • • • • • • • • • • • • • • • • •
			Answer			and		(2 marks)



*11(a) (i)	Simplify the	expres	sion	$n \times 5$	5				
		A	Answer						(1 mark)
11 (a) (ii)	Simplify fully	2	x + 5y	+ 3 <i>x</i> –	2 <i>y</i>				
		A	Answer						(2 marks)
11 (b)	m represents	s an ev	en nun	nber.					
	Explain why	(m +	1)(<i>m</i> –	-1) is	always	odd.			
									(2 marks)
40 (-)	Cirolo all the		ما معرب م	ona in th	io liet				
12 (a)	Circle all the	e prime	numbe	ers in tr	IIS IIST.				
		3	6	7	9	10	13	15	(2 marks)
12 (b)	x is a positive	whole	numbe	ar 6v	1 is not	a nrime	number		(2 marks)
(2)	Work out a po				1 15 1101	а рише	number.		
		A	Answer						(2 marks)

13 (a) (i)	Write down a multiple of 6 that is greater than 20.		
	Answer		(1 mark)
13 (a) (ii)	Write down a factor of 20 that is less than 6.		
	Answer		(1 mark)
13 (b)	Use these mathematical terms to complete the statements be	low.	
	cube cube root square square root		
	10 is the	of 100	
	144 is the	of 12	
	5 is the	of 125	(3 marks)
13 (c) T	his is Hassan's working for the calculation $12 + 4 \times 10$		
	12 + 4 = 16		
	$16 \times 10 = 160$		
	Answer = 160		
	Hassan is wrong.		
	Work out the correct answer for the calculation.		
	Answer		(1 mark)