Other Names

Mathematics

June 2018 Paper 3 (Calculator Allowed) Part 1 (First half of the paper) Edexcel Foundation Tier

Time: 45 minutes

Q	Topic	Max Mark	My Marks
1	Fractions, Decimals and Percentages	1	
2	Fractions, Decimals and Percentages	1	
3	Rounding	1	
4	Sequences (Term to Term)	3	
5	Place Value	2	
6	Factors	2	
7	Calculation Problems	2	
8	Using a Calculator	3	
9	Time	4	
10	Calculation (Rate of Pay) Problems	3	
11	One Amount as a Fraction of Another	2	
12	Scale Drawings	5	
13	The Equation of a Line	2	
14	Stem and Leaf Diagrams	5	
15	Order of Operations, Averages	2	
	Total	38	

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	Answer ALL questions.
	Write your answers in the spaces provided.
	You must write down all the stages in your working.
l	Write $\frac{9}{10}$ as a decimal.
	(Total for Question 1 is 1 mark)
	Write 0.3 as a percentage.
	(Total for Question 2 is 1 mark)
	(Total for Question 2 is 1 mark)
	Write the number 2538 correct to the nearest hundred.
	(Total for Question 3 is 1 mark)
	Here are the first 4 terms of a sequence.
	2 9 16 23
	(a) (i) Write down the next term in the sequence.
	(1)
	(ii) Explain how you got your answer.
	(1)
	(b) Work out the 10th term of the sequence.
	(1)
	(Total for Question 4 is 3 marks)
_	2

Here are four digits. a) Use three of these digits to b) Here are four different dig		3 n the larg	4 gest pos	9 ssible 3-digit num	ber.
a) Use three of these digits to	write dow				ber.
	write dow				ber.
		n the lar	gest pos	ssible 3-digit num	ber.
b) Here are four different dig	its.				
b) Here are four different dig	its.				
b) Here are four different dig	its.				
b) Here are four different dig	its.				
b) Here are four different dig	its.				
	8	2	1	6	
Put one of these digits in e	ach box to	give the	smalles	st possible answer	to the sum.
You must use each digit or	nly once.				
	$\bigcap \subset$		\bigcap	$\left \right $	
		+			
				(Total for Quest	tion 5 is 2 marl
	0				
write down all the factors of 3	0				
				(Total for Quest	tion 6 is 2 marl
				(rotar for Quest	
	Write down all the factors of 3	Write down all the factors of 30			(Total for Quest



3

7	 7 David has twice as many cousins as Becky. Becky has twice as many cousins as Nishat. Nishat has 6 cousins. How many cousins does David have? 	DO NOT WRITE IN THIS AREA
	(Total for Question 7 is 2 n	
8		DOT
	(Total for Question 8 is 3 n	(2) NOT V
	4 P 4 8 8 6 2 A 0 4 2 4	

9 This is part of a bus timetable between Bury and Manchester.

Bury	0825	08 5 5	0915	0930	0945	1005
Whitefield	0834	0904	0924	0939	09 54	1014
Heaton Park	0846	0916	0936	0951	1006	1027
Cheetham	08 56	0926	0946	1001	1016	1037
Manchester	0905	0935	0955	1010	1025	1048

(a) How many minutes should the 0825 bus take to go from Bury to Manchester?

Daniel goes from Whitefield to Manchester by bus.

Daniel takes 17 minutes to get from his house to the bus stop in Whitefield. He takes 15 minutes to get from the bus stop in Manchester to work.

Daniel has to get to work by 10 am. He leaves his house at 8.45 am.

(b) Does Daniel get to work by 10 am? You must show all your working.

(3)

(Total for Question 9 is 4 marks)



5

.... minutes

(1)

10 Bronwin works in a restaurant.

The table gives her rates of pay.

Day	Rate of pay
Monday to Friday	£8.40 per hour
Weekend	£11.20 per hour

Bronwin worked for a total of 20 hours last week. She worked 8 of these 20 hours at the weekend.

Show that Bronwin was paid less than £200 last week.

(Total for Question 10 is 3 marks)



11 Last year the cost of a season ticket for a football club was £560 This year the cost of a season ticket for the club has been increased to £600

Write down the increase in the cost of a season ticket as a fraction of last year's cost.

(Total for Question 11 is 2 marks)



7

12 The diagram shows a scale drawing of a tennis court.

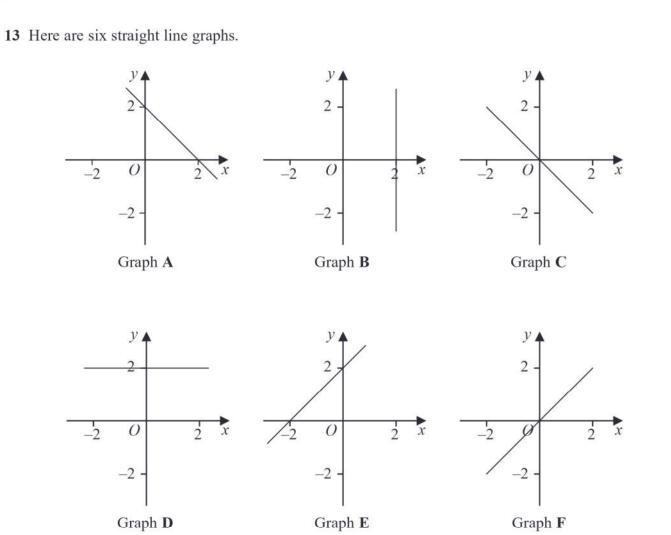
The scale of the drawing is 1:200

Work out the perimeter of the real tennis court. Give your answer in metres.

metres

(Total for Question 12 is 5 marks)





Match each equation in the table to the correct graph.

Write the letter of the graph in the table.

Equation	Graph
<i>y</i> = 2	
y = x	
x + y = 2	

(Total for Question 13 is 2 marks)



Here are t	the mar	ks 20 st	udents g	got in a I	French te	est.				
	76	82	84	69	80	64	70	81	75	91
	87	67	80	70	94	76	81	69	71	77
(a) Show	this in	formatic	on in a si	tem and	leaf diag	gram.				
One of the			100 NOR 100		sen at rai	ndom.				(3
Omar wri										
	15	The J	orobabil	ity that t	his stude	ent faile	d the Fre	nch test	is $\frac{1}{4}$	
Omar is w (b) Expla										
										(2
							(Total fo	or Quest	tion 14 i	s 5 marks
10							1 0 2			

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

$12 - 2 \times 4 = 10 \times 4 = 40$ Jenny's answer is wrong. (a) Explain what Jenny has done wrong. (1) Rehan is asked to find the range of the numbers 3 1 8 7 5 Here is his working. Range = 5 - 3 = 2 This is wrong.							
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Range = 5 - 3 = 2 This is wrong. (b) Explain why. (1)		the numbers	3	1 0	/	5	
(b) Explain why. (1)	Here is his working.	Range = 5	- 3 = 2				
(b) Explain why. (1)	This is wrong.						
(1)							
							(1)
(Total for Question 15 is 2 marks)							
			T)	otal for	Questi	on 15 is i	2 marks)

