

General Certificate of Secondary Education 2014

Mathematics

Unit T5 Paper 2

(With calculator) Foundation Tier



[GMT52]

FRIDAY 30 MAY, 3.00 pm-4.00 pm

TIME

1 hour, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page. **You must answer the questions in the spaces provided.**

Complete in blue or black ink only.

Answer all eighteen questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You **may** use a calculator for this paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 50.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Functional Elements will be assessed in this paper.

Quality of written communication will be assessed in **question 8**.

You should have a calculator, ruler, compasses and a protractor.

The Formula Sheet is on page 2.

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e list of words, in bold, below.				Examin Marks	er Only Remark
le Unlikely Eve	ens	Likely	Certain		
st, write the word that best des	scribes the	probability	of		
a score of less than 5 on a fair	r dice,		[1]		
nning time in the 2016 Marath 3 minutes,			[1]		
ng a letter at random from the ord 'bear' and getting a vowel.	letters in		[1]	Total Qu	testion 1
75. Apples cost 38p each. Estin r working out clearly.	nate how 1	nany apples	I can buy.		
	Answe	ſ	_ apples [2]		
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30



5	A taxi firm displays their fares a	as shown				Examir Marks	Remar
		charge of a plus ence per n					Kemai
	(a) Joe's fare was £10.50 How many miles did he tra	wel?					
			Ans	wer	[2]		
	(b) <i>m</i> represents the number of Which formula represents the Circle the correct answer.			xi firm?			
	F = 1.50m + 75 $F = 150 +$	75 <i>m</i> F	= 1.50 + 0.75m	r = 1.50	0 <i>m</i> + 0.75		
					[1]		
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	Please send me	Number	Price	Sub Total]	Total Qu	lestion
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	(a)	Convert 26 kg to pounds (use 1 kg \approx 2.2 pounds).	Marks	ner Only Remark
		Answer pounds [1]		
	(b)	Convert 15 inches to cm (use 2 inches \approx 5 cm).		
		Answer cm [2]		
	(c)	Convert 250 km to miles.		
		A		
		Answer miles [2]		
			Total O	uestion 7
			[T	
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8 A boy has a combination lock for his bicycle.	
He knows the 3 digits needed to open the lock are 1, 4, and 7 He does not know which order to put them in.	Marks Remark
 (a) Fill in the boxes to show all the different ways he can arrange the 3 digits. 	
(b) He tries to guess his combination.What is the probability he guesses right the first time?	
 Answer [2] (c) A girl knows her combination lock uses the numbers 5, 8, 8 She also guesses her combination. Who has more chance of guessing their own combination right the first time, the boy or the girl? Explain your answer. 	
[2]	Total Question 8
9 Only two four-sided shapes have exactly two lines of symmetry and rotational symmetry of order 2 Name these two shapes.	
	Total Question 9
Answer and [2]	

10	(a) Write 5.99 correct to 1 decimal place. Answer	[1]	Examin Marks	er Only Remark
	(b) Write 0.0362 correct to 3 decimal places. Answer	[1]		
	(c) Write 0.06402 correct to 2 significant figures. Answer	[1]	Total Que	estion 10
11	Find a number which makes this statement correct.			
	number $+ 3 =$ number $\times 3$			
			Total Que	estion 11
	Answer	[1]		
12	The exchange rate between sterling and euro is $\pounds 1 = \pounds 1.20$ (1 pound = 1.20 euro). A kite costs $\pounds 15$ How much does the kite cost in pounds (£)?			
	Answer £	[2]	Total Que	estion 12
13	80 rail passengers bought tickets in a train station. 32 of these passengers were less than 30 years old. If 5000 passengers bought tickets at this station, estimate how many passengers would be less than 30 years old.			
			Total Que	estion 13
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6	John and Mary share £840 in the ratio 2 : 5 How much more money does Mary get than John?		Examin Marks	er Only Remarl
	Answer £ [2]	Total Qu	estion
		-		
7	Find the reciprocal of 1.4 Write your answer as a fraction in its simplest terms.			
	Α	21		
	Answer [2]		
			Total Qu	estion
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18	Simplify $k^3 \times k^3$		Examin Marks	er Only Remark
			Marks	Kemar K
	Answer	_ [1]		
		_		
	THIS IS THE END OF THE QUESTION PAPER			
		_		
			Total Qu	estion 18
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