

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper.

You must NOT write on the formulae page.

Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 26 questions in this question paper. The total mark for this paper is 100. There are 24 pages in this question paper. Any blank pages are indicated. **Calculators may be used.** If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Advice to Candidates

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

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Turn over

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		Leave blank
	Answer ALL TWENTY SIX questions.	
	Write your answers in the spaces provided.	
	You must write down all stages in your working.	
1.	Tania went to Italy. She changed £325 into euros (€).	
	The exchange rate was $\pounds 1 = \pounds 1.68$	
	(a) Change £325 into euros (€).	
	€	
	(2)	
	When she came home she changed €117 into pounds.	
	The new exchange rate was $\pounds 1 = \pounds 1.50$	
	(b) Change €117 into pounds.	
	£	
	(2)	Q1
	(Total 4 marks)	

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Image:









(Total 4 marks)











		Lea bla
8.	There are some sweets in a bag.	
	18 of the sweets are toffees.	
	12 of the sweets are mints.	
	(a) Write down the ratio of the number of toffees to the number of mints. Give your ratio in its simplest form.	
	:	
	(2)	
	There are some oranges and apples in a box. The total number of oranges and apples is 54 The ratio of the number of oranges to the number of apples is 1 : 5	
	(b) Work out the number of apples in the box.	
	(1)	Q8
	(2)	
	(Total 4 marks)	



			Leave
9.	The equation		blank
	$x^3 + 20x = 71$		
	has a solution between 2 and 3		
	Use a trial and improvement method to find this solution. Give your answer correct to one decimal place. You must show ALL your working.		
		<i>x</i> =	Q9
		(Total 4 marks)	



		Leave blank
10. Use ruler and compasses to construct the bisector of this angle. You must show all your construction lines.		
Tou must show an your construction miles.		
	-	
		Q10
	(Total 2 marks)	
11. Tarish says,		
'The sum of two prime numbers is always an even number'.		
He is wrong .		
Explain why.		
		011
	(Total 2 marks)	Q11



Time (<i>t</i> minutes)	Frequency		
$0 < t \leq 6$	15		_
$6 < t \leq 12$	25		
$12 < t \leqslant 18$	20		
$18 < t \leq 24$	12		
$24 < t \leqslant 30$	8		
			 minute
			minutes `otal 4 marks)







14. (a) Simplify $a \times a \times a$		Leave blank
(b) Expand $5(3x - 2)$	(1)	
(c) Expand $3y(y + 4)$	(1)	
(d) Expand and simplify $2(x-4) + 3(x+2)$	(2)	
(e) Expand and simplify $(x + 4)(x - 3)$	(2)	
	(2) (Total 8 marks)	Q14















19. Toby invested £4500 for 2 years in a savings account. He was paid 4% per annum compound interest.(a) How much did Toby have in his savings account after 2 years?		
(a) How much did Toby have in his savings account after 2 years?		
£		
L	(3)	
	()	
Jaspir invested £2400 for n years in a savings account. He was paid 7.5% per annum compound interest.		
At the end of the n years he had £3445.51 in the savings account.		
(b) Work out the value of <i>n</i> .		
	(2)	Q19
	otal 5 marks)	













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25. Simplify fully $\frac{x^2 - 8x + 15}{2x^2 - 7x - 15}$		
		Q25
	(Total 3 marks)	
26. Phil has 20 sweets in a bag.		
5 of the sweets are orange.		
7 of the sweets are red.8 of the sweets are yellow.		
Phil takes at random two sweets from the bag.		
Work out the probability that the sweets will not be the same colour.		

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