

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 27 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 must not be used.

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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			Answ	ver ALL	TWEN	FY SEV	EN ques	tions.		Leave blank
			Write	e your a	nswers i	n the spa	aces pro	vided.		
			You mu	st write	down al	l stages i	in your v	working.		
				You mu	st NOT	use a ca	lculator.			
1.	Simplify		6,	c + 9v + 2	2x - 3y					
	~y)					
										Q1
									(Total 2 marks)	
2.	Here are	the wei	ghts, in g 45	grams, or 50	f 16 eggs 53	43	61	53	62	
		47	45	50	53	43	61	53	62	
		58	56	57	47	55	62	58	58	
	Draw an You mus	ordered t includ	l stem an e a key.	d leaf di	agram to	show th	is inforn	nation.		































	stion on a questionnane.			
How many DVD	s do you buy?			
1 – 5	5 - 10	10 – 15	15 – 20	
Write down two	different things wrong w	vith this question		
1				
2				
				Q1
			(Total 2 marks)	

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ne table gives some in	formation about th	he delays, in minutes, of 80 flights.	
Delay (<i>n</i> minutes)	Frequency		
$0 < n \leq 20$	16		
$20 < n \leq 30$	26		
$30 < n \leqslant 40$	23	-	
$40 < n \leqslant 50$	10		
$50 < n \le 60$	5		
			(1)
Delay	lative frequency t	able.	(1)
Complete the cumu Delay (<i>n</i> minutes) $0 < n \le 20$	lative frequency t Cumulative Frequency	able.	(1)
Complete the cumu Delay (<i>n</i> minutes) $0 < n \le 20$ $0 < n \le 30$	lative frequency t Cumulative Frequency	able.	(1)
Complete the cumuDelay ($n \text{ minutes}$) $0 < n \leq 20$ $0 < n \leq 20$ $0 < n \leq 30$ $0 < n \leq 40$	lative frequency t Cumulative Frequency	able.	(1)
Complete the cumu Delay (<i>n</i> minutes) $0 < n \le 20$ $0 < n \le 30$ $0 < n \le 40$ $0 < n \le 50$	lative frequency t Cumulative Frequency	able.	(1)
Complete the cumu Delay (n minutes) $0 < n \le 20$ $0 < n \le 30$ $0 < n \le 40$ $0 < n \le 50$ $0 < n \le 60$	lative frequency t Cumulative Frequency	able.	(1)
Complete the cumu Delay (<i>n</i> minutes) $0 < n \le 20$ $0 < n \le 30$ $0 < n \le 40$ $0 < n \le 50$ $0 < n \le 60$	lative frequency t Cumulative Frequency	able.	(1)
) Complete the cumu $ \begin{array}{c} Delay \\ (n minutes) \\ 0 < n \leq 20 \\ 0 < n \leq 30 \\ 0 < n \leq 40 \\ 0 < n \leq 50 \\ 0 < n \leq 60 \\ \end{array} $ On the grid opposit	Iative frequency t Cumulative Frequency	able.	(1) (1) (2)
) Complete the cumu $ \begin{array}{c} Delay \\ (n minutes) \\ 0 < n \leq 20 \\ 0 < n \leq 20 \\ 0 < n \leq 30 \\ 0 < n \leq 40 \\ 0 < n \leq 50 \\ 0 < n \leq 60 \\ \end{array} $) On the grid opposit	Iative frequency t Cumulative Frequency e, draw a cumulat ind an estimate for	able.	(1) (1) (2)





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