

## **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 may be used.** If your calculator does not have a  $\pi$  button, take the value of  $\pi$  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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А	nswer ALL TWENTY SEVEN questions.	Leave blank
	<b>Vrite your answers in the spaces provided.</b>	
	must write down all stages in your working.	
. Here is a list of ingre	dients for making a trifle for 4 people.	
	Trifle for 4 people	
	<ul> <li>120 g of raspberry jelly</li> <li>8 sponge fingers</li> <li>420 ml of custard</li> <li>180 g of tinned fruit</li> </ul>	
Rob is going to make	a trifle for 6 people	
	of each ingredient he needs.	
		erry jelly
	of each ingredient he needs.	
	of each ingredient he needs. g of raspb	ge fingers
	of each ingredient he needs. g of raspt sponį	ge fingers of custard









		Leav blan
In August 2008, Eddie hired a car in Italy.		
The cost of hiring the car was £620 The exchange rate was $\pounds 1 = \pounds 1.25$		
(a) Work out the cost of hiring the car in euro	os (f)	
(a) work out the cost of mining the car in cure	05 (0).	
	€	
	(2)	
Eddie bought some perfume in Italy.		
The cost of the perfume in Italy was €50 The cost of the same perfume in London was	£42	
The exchange rate was still $\pounds 1 = \pounds 1.25$		
<ul><li>(b) Work out the difference between the cost perfume in London.</li></ul>	t of the perfume in Italy and the cost of the	
Give your answer in pounds (£).		











					<b>Q9</b>
				(Total 2 marks)	
Colour	Green	Red	Yellow	White	
Probability	0.15	0.30		0.35	
	e probability that a	ribbon chosen a	t random will be y	ellow.	
(a) Work out the					













Number of CDs ( <i>n</i> )	Frequency		
$0 < n \leqslant 40$	3		
$40 < n \leqslant 80$	5		
$80 < n \leqslant 120$	12		
$120 < n \leqslant 160$	7		
$160 < n \leqslant 200$	3		
	o 1 decimal place.		
		 /T-4-14	
	1	 (Total 4 mar	 ks)
	<b>.</b>	 	 <u>'ks)</u>
$-4 < n \le 1$ <i>n</i> is an integer. (a) Write down all the pos		 (Total 4 mar	 ks)
<i>n</i> is an integer.		 (Total 4 mar	 <u>'ks)</u>

















The width of the field is 28 metres, measured to the nearest metre.	
(a) Work out the upper bound of the width of the field.	
	metres (1)
The length of the field is 145 metres, measured to the nearest 5 metres.	
(b) Work out the upper bound for the perimeter of the field.	
	metres (3) Q21
(Total 4	marks)
2. (a) Simplify $p^5 \times p^4$	
	(1)
(b) Simplify $q^5 \div q^2$	
	(1)
(c) Simplify $12tu^6 \div 6tu^5$	
1	(2)
(d) Simplify $(9w^2y^6)^{\frac{1}{2}}$	
	(2)
(e) For $x > 1$ , write the following expressions in order of size.	
Start with the expression with the least value.	







(a) Explain what is mea	nt by a rando	om sample.					blan
						(1)	
Chris collects stamps fro He has 245 stamps from		ountries.					
He wants to take a rando	om sample of	10 of his sta	mps from F	rance.			
(b) Describe a method t							
						(1)	
The table shows informa	tion about Cl	hris' collectio	on of 662 st	amps.			
Country	France	Germany	Spain	Italy	Total	]	
•						-	
Number of stamps	245	184	138	95	662		
<b>Number of stamps</b> Chris takes a sample of f	50 stamps stra	atified by con	untry.		662		
	50 stamps stra	atified by con	untry.		662	 (2)	Q24













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