

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 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.

This publication may be reproduced only in accordance with Edexcel Limited copyright policy. ©2010 Edexcel Limited.

Printer's Log. No. N37832A

W850/R1380F/57570 6/6/6/



Turn over

edexcel advancing learning, changing lives









Red	$\triangle \Delta$	
Blue	$\left \begin{array}{c} \diamondsuit \\ \diamondsuit \\ \diamondsuit \\ \end{array} \right\rangle \left \begin{array}{c} \diamondsuit \\ \bigtriangleup \\ \end{array} \right\rangle \left \begin{array}{c} \checkmark \\ \bigtriangleup \\ \end{array} \right\rangle \left \begin{array}{c} \checkmark \\ \bigtriangleup \\ \end{array} \right\rangle \left \begin{array}{c} \checkmark \\ \end{array} \left \begin{array}{c} \checkmark \\ \end{array} \right\rangle \left \begin{array}{c} \checkmark \\ \\ \end{array} \right\rangle \left \begin{array}{c} \checkmark \\ \\ \end{array} \right\rangle \left \begin{array}{c} \checkmark \\ \\ \end{array} \right\rangle \left \begin{array}{c} \land \\ \end{array} \right\rangle \left \begin{array}{c} \land \\ \end{array} \right\rangle \left \begin{array}{c} \land \\ \end{array} \right\rangle \left \begin{array}{c} \end{array} \right\rangle \left \left \end{array} \right\rangle \left \left \left \end{array} \right\rangle \left \left \left \left \left \left \left \right\rangle \right\rangle \left $	
Purple		
Yellow		
(a) Write down	Key: \bigoplus represents 4 students the number of students who said red.	
		(1)
(b) Write down	the number of students who said blue.	
		(1)
	their favourite colour was purple. heir favourite colour was yellow.	
	ormation to complete the pictogram.	





|





































15. He	re are all	the fac	ctors of 1	6				b
	1	2	4	8	16			
(a)	Write d	lown th	e factor o	of 16 that is	s a prime number.			
						 	(1)	
(b)	Write d	lown al	l the facto	ors of 14				
							(2)	Q
						(Total 3 m	arks)	
l 6. (a)				order of si	ze.			
6. (a)		ith the	umbers in smallest 1 0.63		ze. 0.068			
6. (a)	Start w	ith the	smallest	number. 0.3			(1)	
	Start wi 0.306 Write th	ith the	smallest 1 0.63	number. 0.3 	0.068			
	Start wa 0.306 Write th Start wa	ith the hese fra ith the	smallest n 0.63 actions in smallest t	number. 0.3 order of si fraction.	0.068	 		
	Start wa 0.306 Write th Start wa	ith the hese fra ith the	smallest 1 0.63 actions in	number. 0.3 order of si fraction.	0.068	 		
	Start wa 0.306 Write th Start wa	ith the hese fra ith the	smallest n 0.63 actions in smallest t	number. 0.3 order of si fraction.	0.068			
	Start wa 0.306 Write th Start wa	ith the hese fra ith the	smallest n 0.63 actions in smallest t	number. 0.3 order of si fraction.	0.068			
	Start wa 0.306 Write th Start wa	ith the hese fra ith the	smallest n 0.63 actions in smallest t	number. 0.3 order of si fraction.	0.068			





17.	A family of 2 adults and 3 children went on holiday to Miami. They travelled from London by plane.	Leave blank
	Adult plane tickets cost £459 each. Child plane tickets cost £289 each.	
	(a) Work out the total cost of the plane tickets for the 2 adults and 3 children.	
	£(2)	
	The family visited a theme park. They paid a total of 322 dollars to go in.	
	The exchange rate was $\pounds 1 = 1.84$ dollars.	
	(b) Change 322 dollars to pounds (£).	
	£(2)	
	The distance from London to Miami is 7120 km. The plane journey took 8 hours.	
	(c) Calculate the average speed of the plane.	









Men Women	Football 20	Tennis	Rugby	Netball 8	Total
	20		10	8	54
Women	20				54
	20	9			
Total	44		16		100
					(1) Fotal 5 marks)

















200 students in Year 11 took a mathematics test. Kamini wants to find out whether students in Year 11 like mathematics.	
For her sample she asks the 20 students who got the highest marks in the test.	
This is not a good sample to use.	
a) Write down one reason why.	
	(1)
She uses this question on her questionnaire.	
What do you think of mathematics?	
Excellent Very good Good	
b) Write down one thing that is wrong with this question.	
	(1)
Kamini also wants to find out how many hours students spend on their	
nathematics homework.	
c) Design a suitable question that Kamini could use on her questionnaire. You must include some response boxes.	
Tou must metude some response boxes.	











BLANK PAGE

