

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Pages	Mark
2 - 3	
4 - 5	
TOTAL	



General Certificate of Secondary Education
2010

Statistics

Written Assessment 43102 SPECIMEN Controlled Assessment

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • a calculator • mathematical instruments • your completed investigation 	
--	--

Time allowed

- 45 minutes

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 20.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer booklet.
- You are expected to use a calculator where appropriate.

Advice

- In all calculations, show clearly how you work out your answer.
- Ensure you refer appropriately to your investigation when answering questions

SPECIMEN

Written Assessment – Where do the wealthiest people live ?

SECTION A

Answer **all** questions in the spaces provided.

Marks will be awarded for the clarity of your answer.

1 a Write down the names of two different types of diagram that you have drawn as part of your investigation.

Give a statistical reason why each of these diagrams was suitable for representing the data you collected.

Diagram.....

Reason.....

.....

.....

Diagram.....

Reason.....

.....

.....

(2 marks)

1 b Suggest one further type of diagram that would have been appropriate for representing your data. Give a reason why it would have been appropriate for these data.

Diagram.....

Reason.....

.....

(2 marks)

2 What assumptions did you make when you chose the variables to consider in your investigation?

.....
.....
.....

(2 marks)

3 Suggest **two** different things that you could have done to extend or develop your investigation.

Write down how one of these would have added to your task.

.....
.....
.....
.....
.....
.....

(3 marks)

9

SECTION B

Answer **all** questions in the spaces provided.

Marks will be awarded for the clarity of your answer.

4 Suppose your teacher asked you to extend your investigation by finding out about the pocket money of students in a large secondary school.

Explain how you would go about collecting the primary data necessary.

Your answer should include

- a hypothesis to be tested
- the data you would need to collect
- the method you would use to collect the data
- the sampling method you would use and reasons for your choice
- Any problems that you may encounter and how you would overcome them

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(8 marks)

- 5** Write down the name of **one** appropriate calculation that you would be likely to use to help you analyse some of the primary data in question 4. Give a reason why this calculation would be appropriate for the data you have chosen and what you would use the calculation for.

Calculation.....

Reason.....

.....

.....

(3 marks)

11

END OF QUESTIONS

There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**