

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 	
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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.....

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Diagram.....

Reason.....

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(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.....

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(2 marks)

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

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(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.

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(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

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(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.....

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(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**