



S02-10min The Statistical Enquiry Cycle: 10-minute Pack

EDEXCEL 1ST0 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

1 For each statement about the statistical enquiry cycle, write down whether it is True or False.

(i) The four stages of the statistical enquiry cycle can be carried out in any order. (1)

(ii) Once the interpret stage is complete, the enquiry cycle can begin again with a new plan stage. (1)

(Total for Question 1 is 2 marks)

2 The four stages of the statistical enquiry cycle are listed below, in the wrong order.

- A Interpret
- B Plan
- C Process
- D Collect

Write down the letters A, B, C and D in the correct order.

(Total for Question 2 is 2 marks)

3 State whether this is True or False: A hypothesis is a statement that can be tested and shown to be true or false using data.

(Total for Question 3 is 1 mark)

4 Match each statistical term to its correct definition.

Terms: hypothesis, population, sample, data collection method

Definitions:

1. A statement that can be tested and shown to be true or false using data.
2. The whole group that a statistical enquiry is interested in.
3. A smaller part of the population, chosen to represent the whole group.
4. The way in which data will be gathered, such as a questionnaire, observation or experiment.

(a) Which term matches definition 1? **(1)**

(b) Which term matches definition 2? **(1)**

(c) Which term matches definition 3? **(1)**

(d) Which term matches definition 4? **(1)**

(Total for Question 4 is 4 marks)

5 State whether this is True or False: Once the interpret stage is finished, the statistical enquiry cycle cannot be repeated.

(Total for Question 5 is 1 mark)

Mark scheme · S02-10min The Statistical Enquiry Cycle: 10-minute Pack

Question 1

- (i) **B1** False cao
- (i) **Answer: False**
- (ii) **B1** True cao
- (ii) **Answer: True**

Question 2

- **B1** identifies B (Plan) as the first stage
- **B1** B, D, C, A cao (fully correct order)
- **Answer: B, D, C, A**

Question 3

- **B1** True cao
- **Answer: True**

Question 4

- (a) **B1** hypothesis cao
- (a) **Answer: Hypothesis**
- (b) **B1** population cao
- (b) **Answer: Population**
- (c) **B1** sample cao
- (c) **Answer: Sample**
- (d) **B1** data collection method cao
- (d) **Answer: Data collection method**

Question 5

- **B1** False cao
- **Answer: False**