10.7 Fieldwork Enquiry: Presenting, Analysing and Evaluating Data: 10-minute Pack

AQA 8035 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Define the term 'field sketch' as used in a geography fieldwork enquiry at a UK town centre site.

(Total for Question 1 is 1 mark)

2 State one ethical consideration to bear in mind when conducting a school fieldwork survey in a public urban space.

(Total for Question 2 is 1 mark)

3 Give TWO limitations of using small sample sizes in fieldwork enquiries, for example when measuring soil pH at three points in a community garden.

(Total for Question 3 is 2 marks)

4 A student used a simple metre ruler to measure vegetation height and recorded values to the nearest centimetre. State one source of human error in this method, and suggest an improvement.

(Total for Question 4 is 2 marks)

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5 Figure 1: Results from a pedestrian count undertaken on High Street, a UK town centre, between 10:00 and 11:00. Counts at four points along the street: North end 120 pedestrians, Market junction 210 pedestrians, Central crossing 350 pedestrians, South end 220 pedestrians. Suggest a suitable way to present this fieldwork data and justify your choice with one clear reason.

(Total for Question 5 is 2 marks)

6 A small group measured the width (metres) of a river channel at five transects: 3.2, 4.1, 3.8, 4.0, 3.9. Calculate the range of the channel widths.

(Total for Question 6 is 1 mark)

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Mark scheme · 10.7 Fieldwork Enquiry: Presenting, Analysing and Evaluating Data: 10-minute Pack

Question 1

a simple labelled drawing made on site that shows key features and their spatial relationships, oe **B1**

Answer: A field sketch is a simple labelled drawing made on site that shows key features and their spatial relationships.

Question 2

e.g. obtain consent before surveying individuals or respect privacy and do not record personal data without permission, oe **B1**

Answer: Obtain consent before surveying individuals and respect privacy; do not record personal data without permission.

Question 3

limitation 1, e.g. results may not be representative of the whole area and may miss variation, oe **B1**

limitation 2, e.g. small samples increase the influence of random error or an outlier on the overall result, oe **B1**

Answer: Small samples may not be representative and can miss spatial variation across the site; they also increase the influence of random error or outliers on the overall result.

Question 4

source of human error, e.g. inconsistent positioning of the ruler or different students reading the ruler differently, oe **B1**

improvement, e.g. use a fixed stake or clip to ensure consistent measurement position or have the same student take all measurements, oe **B1**

Answer: Human error could come from inconsistent positioning of the ruler or different students reading it differently; improve by using a fixed stake or clip for each measurement or having the same student take all measurements for consistency.

Question 5

suggestion of an appropriate presentation, e.g. a located bar chart on a simple map or a column graph labelled with the four positions, oe **B1**

justification, e.g. this shows differences in pedestrian numbers at each location clearly and links the counts to their place on the street, oe **B1**

Answer: A located bar chart (bars plotted at the four positions on a base map) because this shows differences in pedestrian numbers clearly and links each count to its exact position on the street.

Question 6

0.9 m cao **A1**

Answer: 0.9 m.

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