GCSE
GEOGRAPHY

Paper 3 Geographical applications

Specimen **Time allowed: 1 hour 15 minutes**

Materials
For this paper you must have:
• a clean copy of the pre-release resources sheet

Instructions
• Use black ink or black ball-point pen.
• Fill in the boxes at the bottom of this page.
• Answer **all** questions.
• You must answer the questions on the spaces 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 you do not want to be marked.

Information
• The marks for questions are shown in brackets.
• The total number of marks available for this paper is 76.
• Spelling, punctuation and grammar will be assessed in Questions 03.2 and 05.4.

Advice
For multiple-choice questions, completely fill in the circle alongside the appropriate answer(s).

CORRECT METHOD ●   WRONG METHODS ⊗ ⊙ ⊜ ⏀

If you want to change your answer you must cross out your original answer as shown. ⊠

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. ⊠

Please write clearly, in block capitals, to allow character computer recognition.

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Surname ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

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Candidate signature _____

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Section A Issue evaluation

Answer **all** questions in this section.

Question 1   Issue evaluation

Study **Figure 1**, 'Energy in the United Kingdom', in the resource booklet.

| 0 | 1 | . | 1 | Describe the changing pattern of total energy consumption in the UK between 1970–2015.

[2 marks]

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| 0 | 1 | . | 2 | Suggest why the energy mix in the UK is likely to change in the future.

[6 marks]

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| 0 | 1 | . | 3 | Suggest **one** reason why energy consumption in the UK has changed between 1970–2015.

[2 marks]

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| 0 | 1 | . | 4 | Suggest **two** reasons for the increasing dependence on energy imports.

[2 marks]

Reason 1:

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Reason 2:

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Turn over for the next question

Turn over ▶

Study **Figure 2**, 'New Surface Coal Mine Planned for Druridge Bay', in the resource booklet.

0 2 . 1 What is the approximate area of the proposed coal mine highlighted on the Ordnance Survey extract?

Shade **one** circle only.

A	2 sq km	⬭
B	4 sq km	⬭
C	6 sq km	⬭
D	8 sq km	⬭

[1 mark]

0 2 . 2 'The physical environment provides opportunities for a range of economic activities.'

Use **Figure 2** to help you discuss this statement.

[6 marks]

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Study **Figure 3**, 'Views about the development of Druridge Bay', in the resource booklet.

| 0 | 3 | . | 1 | Explain why this development is an example of an 'economic/environmental' conflict.

[6 marks]

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Question 3 continues on the next page

Turn over ▶

| 0 | 3 | . | 2 | Do you think that the proposed coal mine development at Druridge Bay should go ahead? |

Tick the box of your choice.

Yes ☐   No ☐

Use evidence from the resource booklet and your own knowledge to explain your decision.

[9 marks]
[+ 3 SPaG marks]

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End of Section A

Turn over for Section B

Turn over ▶

Section B Fieldwork

Answer **all** questions.

Study **Figure 4**, which shows the results of a survey carried out with visitors in Windermere, in the Lake District. One hundred people were interviewed.

Figure 4

Where have you come from?	
North West	19%
North East	13%
Humberside and Yorkshire	12%
West Midlands	12%
East Midlands	8%
East Anglia	3%
South East	18%
South West	6%
Wales	2%
Scotland	6%
Northern Ireland	1%

Why are you visiting Windermere?	
Scenery	46%
Visiting a specific place	12%
Good place to stay	10%
Outdoor activities	10%
Peace and quiet	8%
Visiting friends and relatives	4%
Other	10%

0 4 . 1 Complete the map below to show the origin of visitors to Windermere from:

South East   18%
Wales   2%

[2 marks]

N   0   100 km

Scale 1:12 000 000

Scotland

Northern
Ireland

North
East

North
West

Humberside
and
Yorkshire

East
Midlands

West
Midlands

East
Anglia

Wales

South East

South West

Windermere

Key
%

17 and above

9 - 16

0 - 8

Question 4 continues on the next page

Turn over ▶
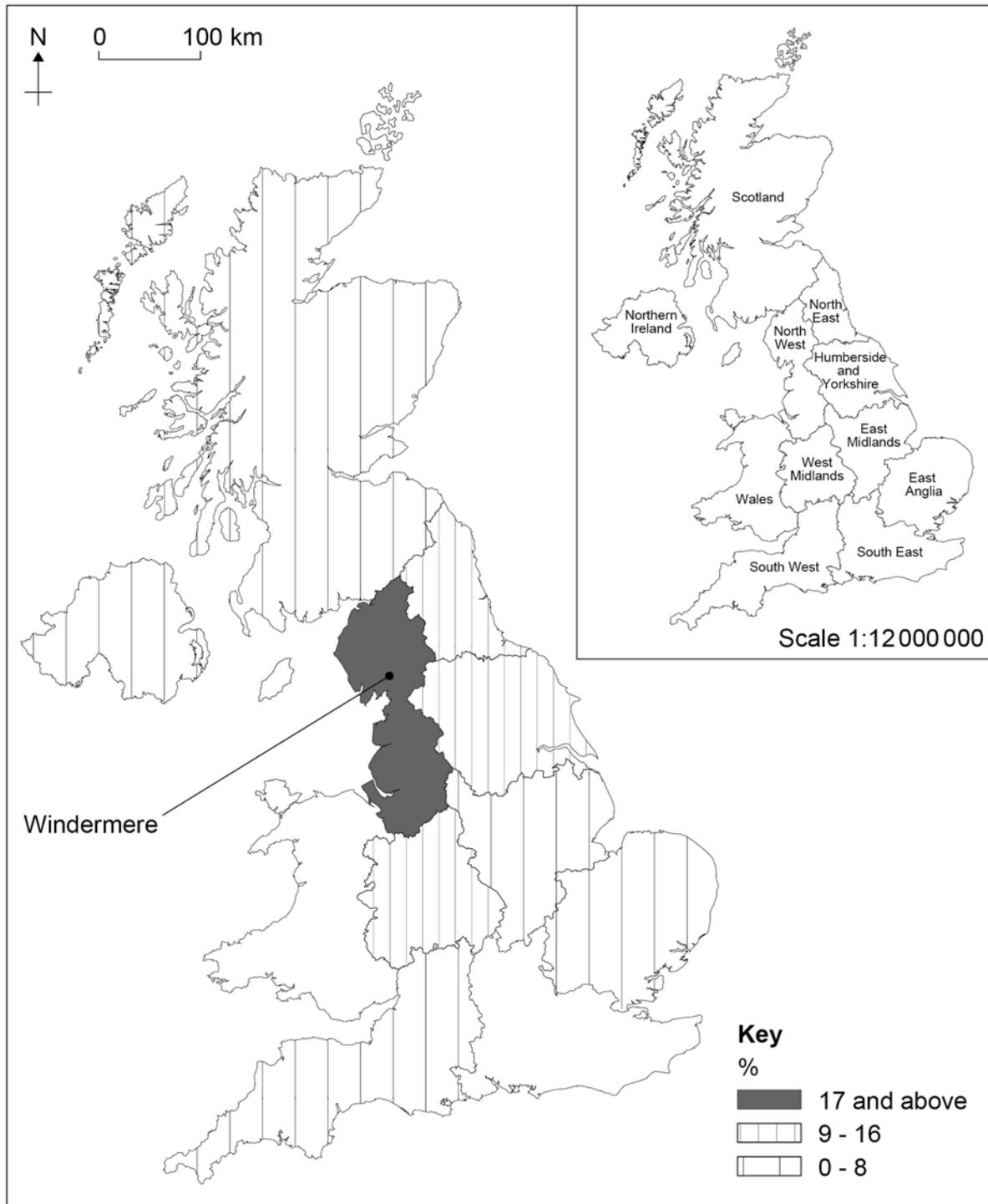
| 0 | 4 | . | 2 | Suggest **one** reason why each of the following questions might be useful for an enquiry about visitors to Windermere.

[2 marks]

    Where have you come from? _____

_____

    Why are you visiting Windermere? _____

_____

| 0 | 4 | . | 3 | Study **Figure 5**, two sets of data collected by students who were carrying out a geographical enquiry about traffic problems in a town centre. |

Figure 5

Car ownership in the town	
Date	**Number of Cars**
1950	3127
1960	4240
1970	4912
1980	5727
1990	6520
2000	7983
2010	8920

How people travelled to the town centre (sample of 100 people)	
Car	62
Walk	17
Bus	15
Motorcycle	3
Cycle	3

The following four methods were considered for presenting the data shown in **Figure 5**.

**A**   Pie chart

B   Line graph

C   Proportional symbol map

D   Flow line map

Which method (**A**, **B**, **C** or **D**) would be most suitable for presenting each set of data?

[2 marks]

Data shown in Figure 5	Presentation method
Car ownership in the town	
How people travelled to the town centre	

Question 4 continues on the next page

Turn over ▶

| 0 | 4 | . | 4 | Study **Figure 6** which shows the results of a Car Park Survey.

Figure 6

N

E

C

Town centre

A

D

B

Key

Main shopping area

Car park

0   250   500m

Car Park Survey

Car park	A	B	C	D	E	
% full	72	47	61	66	42	Wednesday (2pm)
	92	56	78	85	51	Saturday (11am)
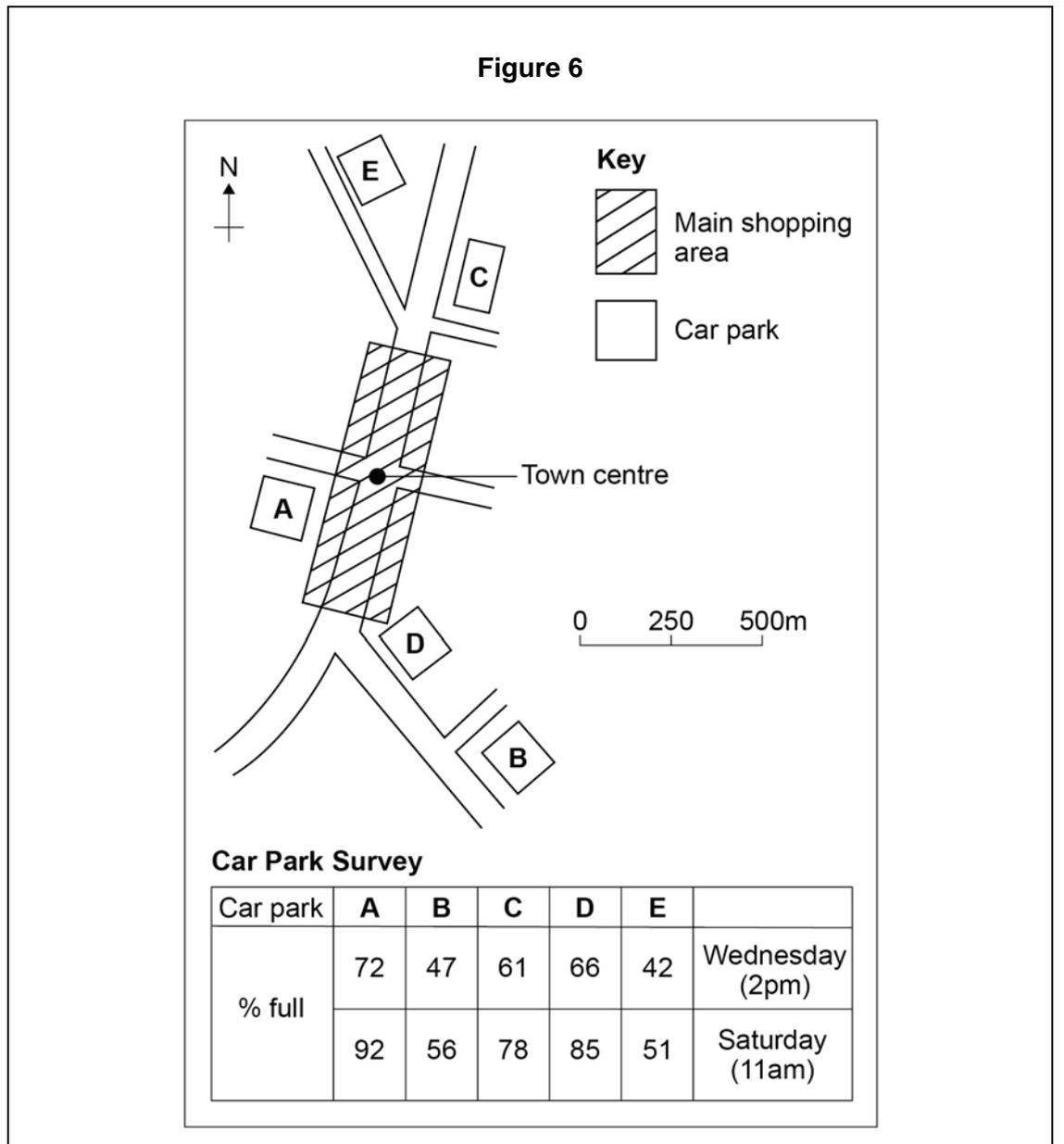
Suggest reasons for the differences shown in the Car Park Survey between Wednesday and Saturday.

[4 marks]

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Question 4 continues on the next page

Turn over ▶

Study **Figure 7**, data collected by means of a questionnaire about the employment structure of a town.

Figure 7

Primary (%)	5
Secondary (%)	25
Tertiary (%)	70

| 0 | 4 | . | 5 | Complete the divided bar graph below by plotting the data shown in **Figure 7**.

[1 mark]
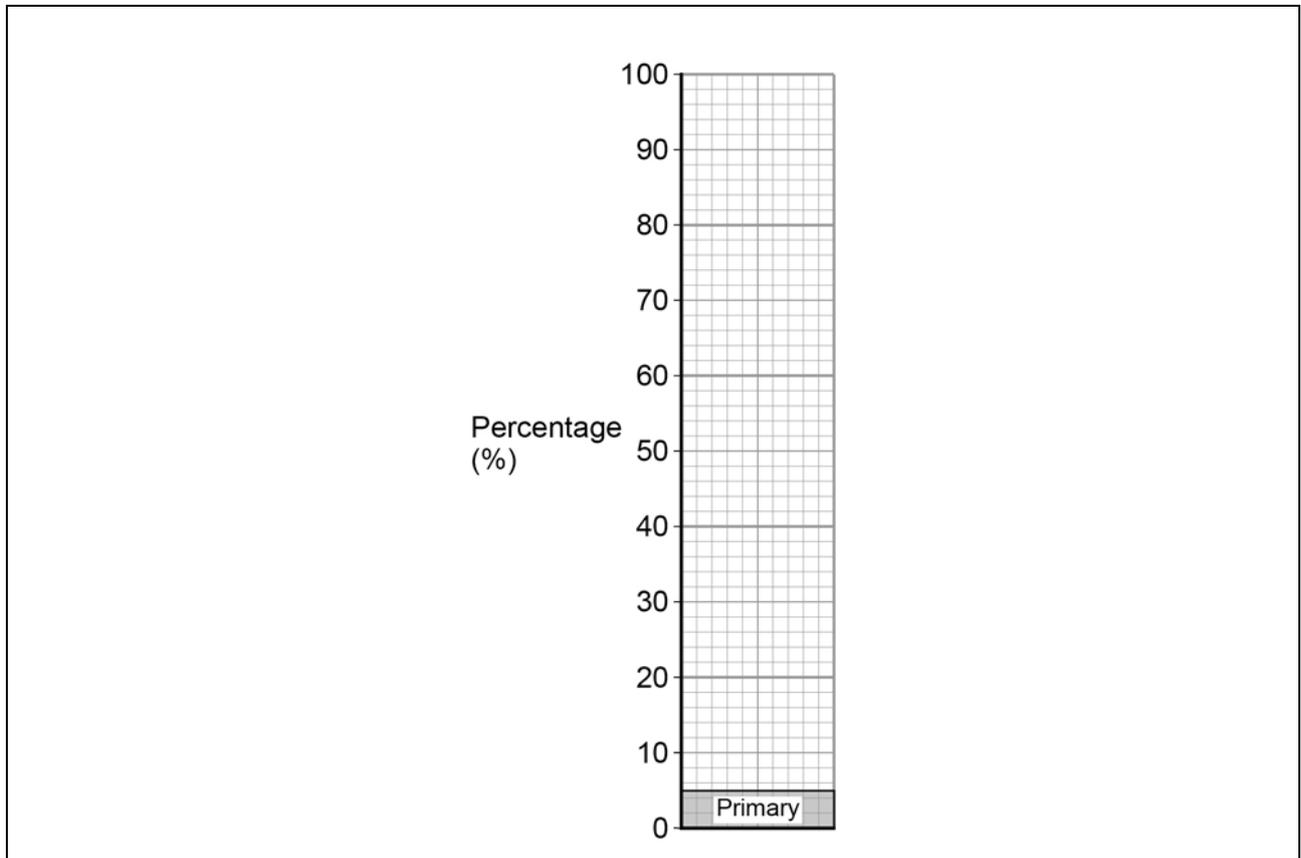
| 0 | 4 | . | 6 | Suggest **one** other method that could be used to present the employment structure data.

[1 mark]

Study **Figure 8**, data collected for a river enquiry.

Figure 8

River enquiry, April 2015
Stream flow

Date of the month	Flow (cumecs, approx.)
4	4
5	4
6	5
7	3
8	7
9	9
10	6
11	5
12	4
13	4
14	3
15	5
16	6

Cumecs = cubic metres per second
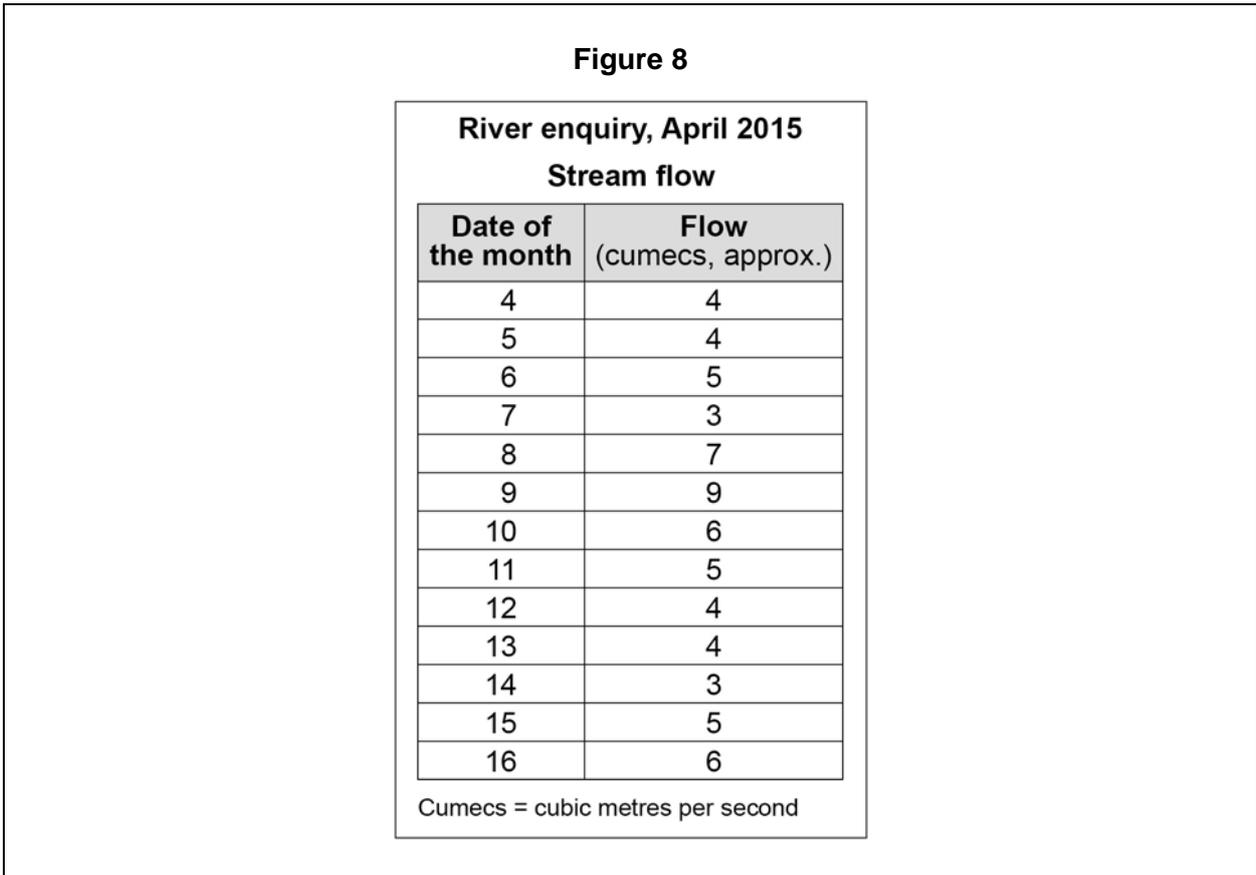
| 0 | 4 | . | 7 | Complete the following table by using the stream flow data in **Figure 8**.

[2 marks]

Stream flow	Mean	5.0
	Median	
	Mode	

| 0 | 4 | . | 8 | Suggest **two** pieces of advice that should be given to students in order to reduce potential risks when carrying out a physical geography enquiry.

[2 marks]

1: _____

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2: _____

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Turn over ▶

0 5 . 1 State the title of your fieldwork enquiry in which **human** geography data were collected.

   Title of fieldwork enquiry: _____

_____

Explain why it was a suitable topic for a geographical enquiry.

[2 marks]

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0 5 . 2 Justify **one** primary data collection method used in your **human** geography enquiry.

[3 marks]

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0 5 . 3 State the title of your fieldwork enquiry in which **physical** geography data were collected.

Title of fieldwork enquiry:

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To what extent were the data collected useful in satisfying the original aim(s) of the enquiry?

[6 marks]

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Question 5 continues on the next page

Turn over ▶

| 0 | 5 | . | 4 |

With reference to your methods, results and conclusions, suggest how **one** of your geographical enquiries could be improved.

Title of fieldwork enquiry:

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[9 marks]
[+ 3 SPaG marks]

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END OF QUESTIONS

There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED