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# GCSE GEOGRAPHY

## Paper 3 Geographical applications

Monday 11 June 2018

Afternoon

Time allowed: 1 hour 15 minutes

### Materials

For this paper you must have:

- the Pre-release resources booklet (enclosed)
- the OS key insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in 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, grammar and specialist terminology will be assessed in Questions **03.2** and **05.4**.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
<b>TOTAL</b>	



For the multiple-choice questions, completely fill in the circle alongside the appropriate answer.

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.



### Section A Issue evaluation

Answer **all** questions in this section.

Study **Figure 1**, 'Water in the United Kingdom' in the resources booklet.

**0 1 . 1** Which of the following cities has the highest annual rainfall?

Shade **one** circle only.

**A** Bristol

**B** Glasgow

**C** Liverpool

**D** London

[1 mark]

**0 1 . 2** Give **two** effects of water stress.

[2 marks]

1 \_\_\_\_\_

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2 \_\_\_\_\_

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**0 1 . 3** 'Water transfer schemes will be essential to meet the growing demand for water in the UK.'

Do you agree? Explain your answer.

**[6 marks]**

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**0** **1** **4** Suggest why water companies need 25-year plans.

**[6 marks]**

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**15**



Study **Figure 2**, 'Managing water demand in Oxfordshire' in the resources booklet.

- 0 2 . 1** What is the approximate area of the proposed reservoir as shown on the Ordnance Survey (OS) map extract?

Shade **one** circle only.

**A** 3 km<sup>2</sup>

**B** 6 km<sup>2</sup>

**C** 9 km<sup>2</sup>

**D** 12 km<sup>2</sup>

[1 mark]

- 0 2 . 2** Describe the relief of the land in the area of the proposed reservoir.

[2 marks]

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- 0 2 . 3** Give **one** reason why clay is a suitable material on which to build a reservoir.

[1 mark]

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Study **Figure 2**, 'Managing water demand in Oxfordshire' and **Figure 3**, 'A new reservoir for Oxfordshire?' in the resources booklet.

**0 3 . 1** 'The physical environment provides opportunities for a range of socio-economic activities.' Use **Figure 2** and **Figure 3** to discuss this statement.

**[6 marks]**

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**0 3**. **2** Do you think that the proposed reservoir development should go ahead?

Yes  No

**Tick** the box to show your choice.

Use evidence from the resources booklet and your own understanding to explain your choice.

**[9 marks]**  
**[+3 SPaG marks]**

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<b>18</b>

**End of Section A**





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**Section B Fieldwork**Answer **all** questions in this section.

Study **Figure 4**, information collected by students about visitors to Bournemouth, a coastal town in Dorset.

**Figure 4**

**Survey of 100 people staying in a hotel**  
(carried out by questionnaire on a Saturday in August)

<b>Origins of visitors (Where people came from)</b>	
Scotland	4
North East	8
Yorkshire and the Humber	6
East Midlands	14
East Anglia	6
South East	20
South West	12
Wales	4
West Midlands	16
North West	8
Northern Ireland	2

<b>Visitor spending</b>	
Accommodation	19%
Shopping	22%
Food and drink	30%
Attractions and entertainment	11%
Travel	15%
Other	3%

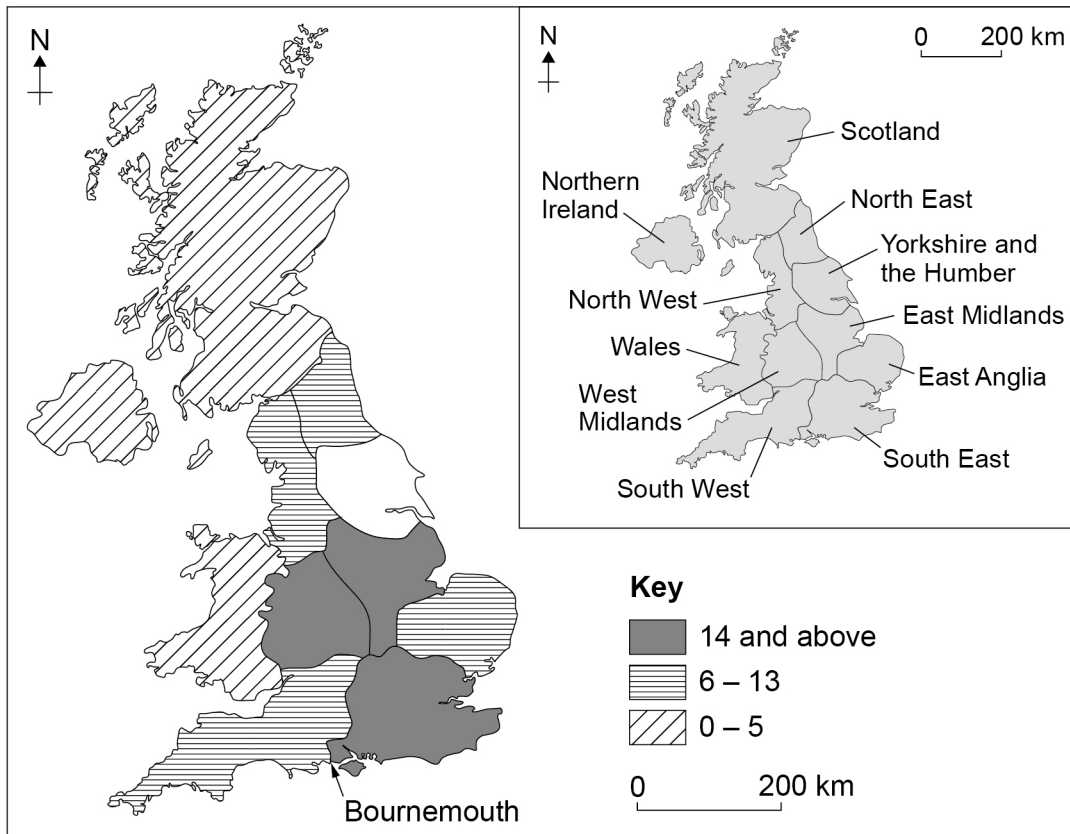


**0 4 . 1** Complete the map below (**Figure 5**) to show the origin of visitors to Bournemouth using the following data.

Yorkshire and the Humber	6%
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[1 mark]

**Figure 5**



**0 4 . 2** Describe the pattern shown by **Figure 5**.

[2 marks]

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**0 4 . 3** (a) Suggest **one** additional question which could be included on the visitor survey.

**[1 mark]**

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(b) Give **one** reason why your chosen question might provide useful information for the visitor survey.

**[1 mark]**

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Study **Figure 6**, information about visitor numbers to the main tourist attractions in a city.

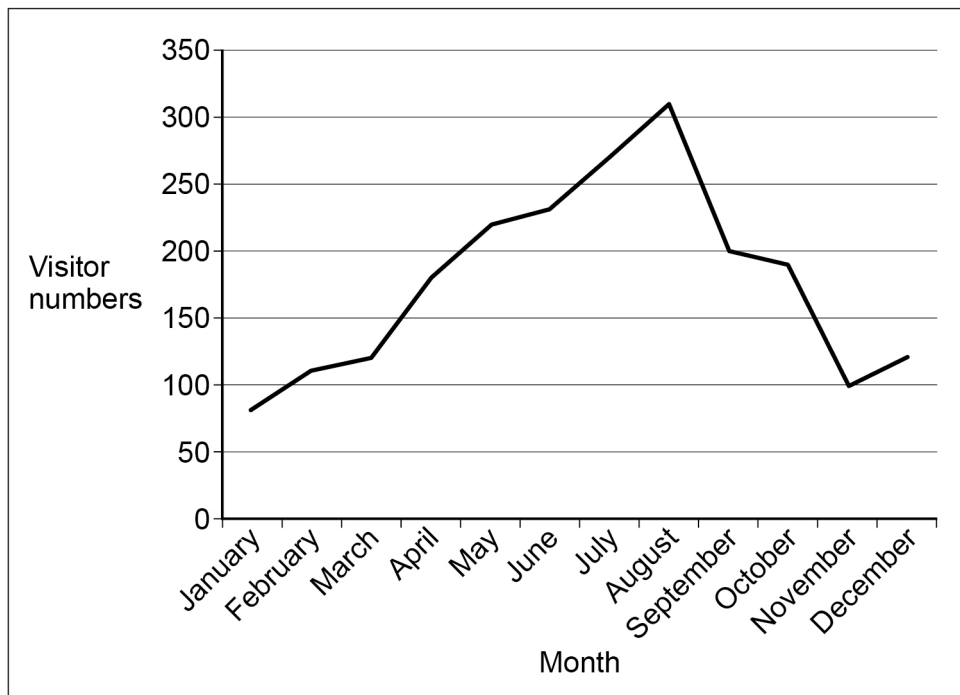
**Figure 6**

Visitor numbers to main tourist attractions (thousands)	
January	80
February	110
March	120
April	180
May	220
June	230
July	270
August	310
September	200
October	190
November	100
December	120



A student used the following presentation method (**Figure 7**) to show the information in **Figure 6**.

**Figure 7**



**0 4 . 4** (a) Suggest a more appropriate method for presenting the data shown in **Figure 6**.

**[1 mark]**

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(b) Give a reason for your choice.

**[1 mark]**

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As part of a geographical enquiry, students carried out an environmental quality survey in one part of a town centre. The results are shown in **Figure 8**.

**Figure 8**

	-2	-1	0	+1	+2	
Lots of traffic pollution				✓		No traffic pollution
Lots of litter	✓					No litter
Unattractive buildings					✓	Attractive buildings
Lots of vandalism		✓				No vandalism
No landscaping					✓	Good landscaping

**0 4 . 5** What is the total environmental quality score for the area shown in **Figure 8**?

**[1 mark]**

\_\_\_\_\_

**0 4 . 6** Suggest **one** advantage and **one** disadvantage of using the technique shown in **Figure 8** to measure environmental quality.

**[2 marks]**

Advantage \_\_\_\_\_

\_\_\_\_\_

Disadvantage \_\_\_\_\_

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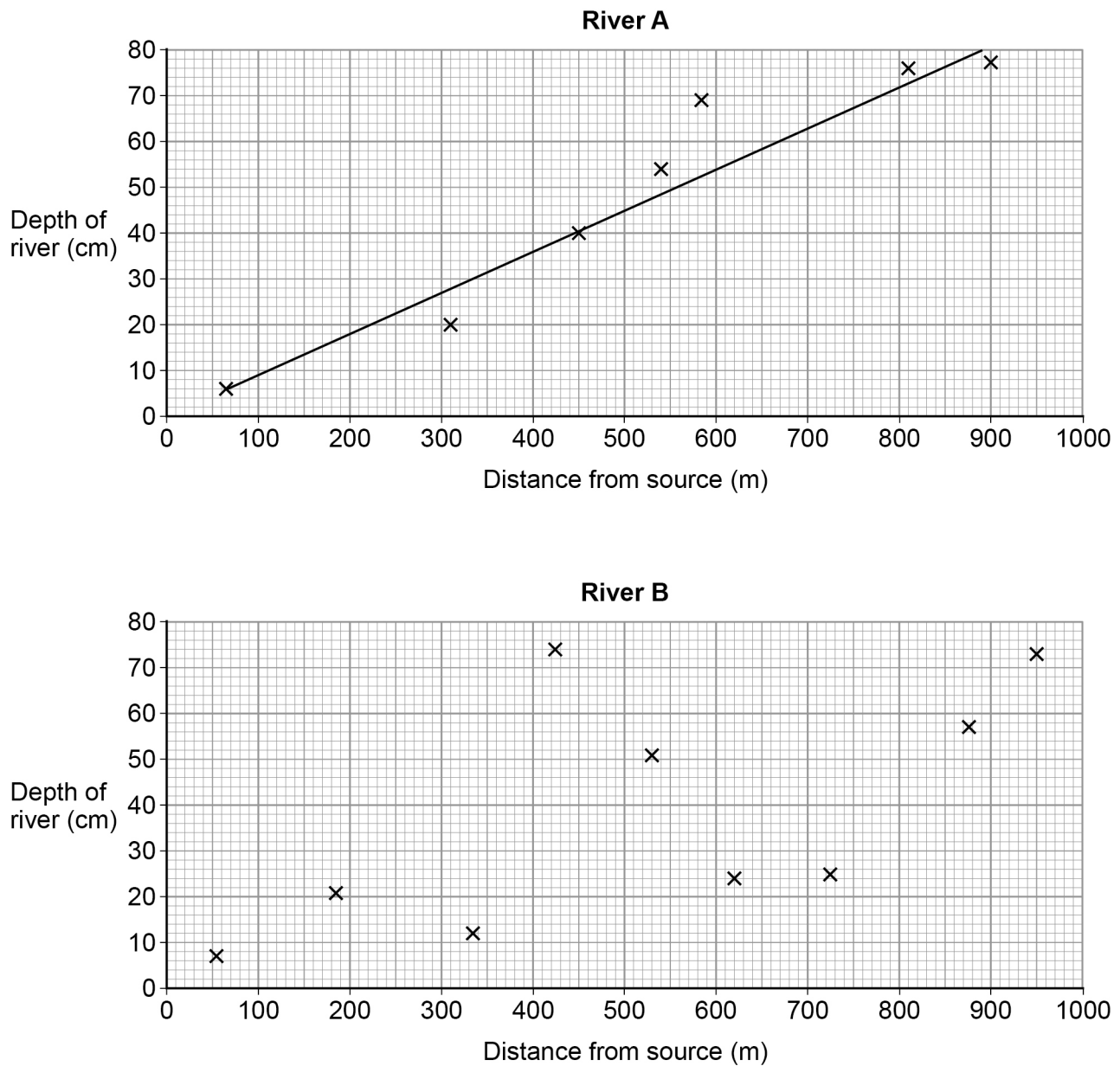
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Students studied two different rivers over a distance of 1000 metres. For each river they measured the depth at a number of sites. The results are shown on **Figure 9**.

**Figure 9**





**0 4 . 7** Complete the scattergraph for **River B** by plotting the following data.

Distance from source – 450 m

Depth of river – 22 cm

**[1 mark]**

**0 4 . 8** Draw a line of best fit on the scattergraph for **River B**.

**[1 mark]**

**0 4 . 9** Compare the relationship between distance from source and depth of river for the two rivers.

**[4 marks]**

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**Turn over for the next question**

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Write the title of your **physical** geography fieldwork enquiry.

**Title of fieldwork enquiry** \_\_\_\_\_

\_\_\_\_\_

**0 5 . 1**

Explain why the chosen location was suitable for the collection of data.

**[2 marks]**

\_\_\_\_\_  
\_\_\_\_\_  
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**0 5 . 2**

Justify **one** primary data collection method used in your **physical** geography enquiry.

**[3 marks]**

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Write the title of your **human** geography fieldwork enquiry.

**Title of fieldwork enquiry** \_\_\_\_\_

\_\_\_\_\_

**0 5 . 3**

Explain how **one** data presentation technique used in your **human** geography enquiry helped you to interpret the data.

**[6 marks]**

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**0 5 . 4**

For **one** of your fieldwork enquiries, assess the extent to which the accuracy of the results and the reliability of the conclusions could be improved.

**[9 marks]**  
**[+3 SPaG marks]**

**Title of fieldwork enquiry** \_\_\_\_\_

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**END OF QUESTIONS**



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