



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

GCSE GEOGRAPHY

Paper 3 Geographical applications

Friday 14 June 2024

Morning

Time allowed: 1 hour 30 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.
- If you need additional extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- 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.
- HIC is a higher income country.
- LIC is a lower income country.
- NEE is a newly emerging economy.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Questions **03** and **05.4**.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	







J U N 2 4 8 0 3 5 3 0 1


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For the multiple-choice questions, shade the circle next to the correct 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** in the resources booklet, 'England's housing challenge'.

- 0 1 . 1** What was the difference between the National Housing Federation (NHF) housing demand figure of 340 000 homes and the actual new housing supply in 2018?

Shade **one** circle only.

[1 mark]

A 100 000

☐

B 110 000

☐

C 120 000

☐

D 130 000

☐

- 0 1 . 2** Describe the relationship between average house prices and average household income in England (2019).

[2 marks]



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0 1 . 3 Suggest how brownfield development could help to regenerate urban areas.

[6 marks]

[illegible]

Extra space

0 1 . 4 Give **two** ways urban sprawl can damage the environment.

[2 marks]

- 1 _____
- 2 _____

Question 1 continues on the next page

Turn over ►



Study **Figure 2** in the resources booklet, 'The proposed Tudeley Village development'.

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- 0 2 . 1** In which direction is the settlement of Paddock Wood from the proposed Tudeley Village development as shown on the Ordnance Survey map?

Shade **one** circle only.

[1 mark]

A East

☐

B North

☐

C South

☐

D West

☐

- 0 2 . 2** What is the approximate straight-line distance between Tonbridge railway station and the proposed Tudeley Village railway station?

Shade **one** circle only.

[1 mark]

A 2 km

☐

B 4 km

☐

C 6 km

☐

D 8 km

☐

- 0 2 . 3** Using the Ordnance Survey map, describe the physical geography (relief and drainage) of the area north of the Tonbridge to Paddock Wood railway line.

[4 marks]

Turn over ►



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0 2 . 4 Suggest **two** reasons why people might be attracted to live in Tudeley Village.

[2 marks]

1

2

8



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End of Section A



Turn over for the next section

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Section B Fieldwork

Answer **all** questions in this section.

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A student investigated the use of public transport in their local area by testing the following hypothesis: 'The cost of fares is the most important factor in encouraging the use of local bus services.'

For one part of the enquiry the student interviewed 50 people to assess views about the local bus service.

Figure 4 shows the results of the interviews.

Figure 4

1. How do you rate the following aspects of the local bus service?

	Very poor	Poor	Reasonable	Good	Very good
Cost of fares	16	21	13	0	0
Availability	7	25	13	5	0
Punctuality	16	13	17	4	0
Cleanliness	0	8	29	9	4

2. What would encourage you to use the local bus service more frequently?

Cheaper fares	23
Increased frequency	14
Shorter journey times	11
Increased parking charges	2

0 4 . 1

What percentage of the people who were interviewed considered cleanliness to be reasonable?

[1 mark]

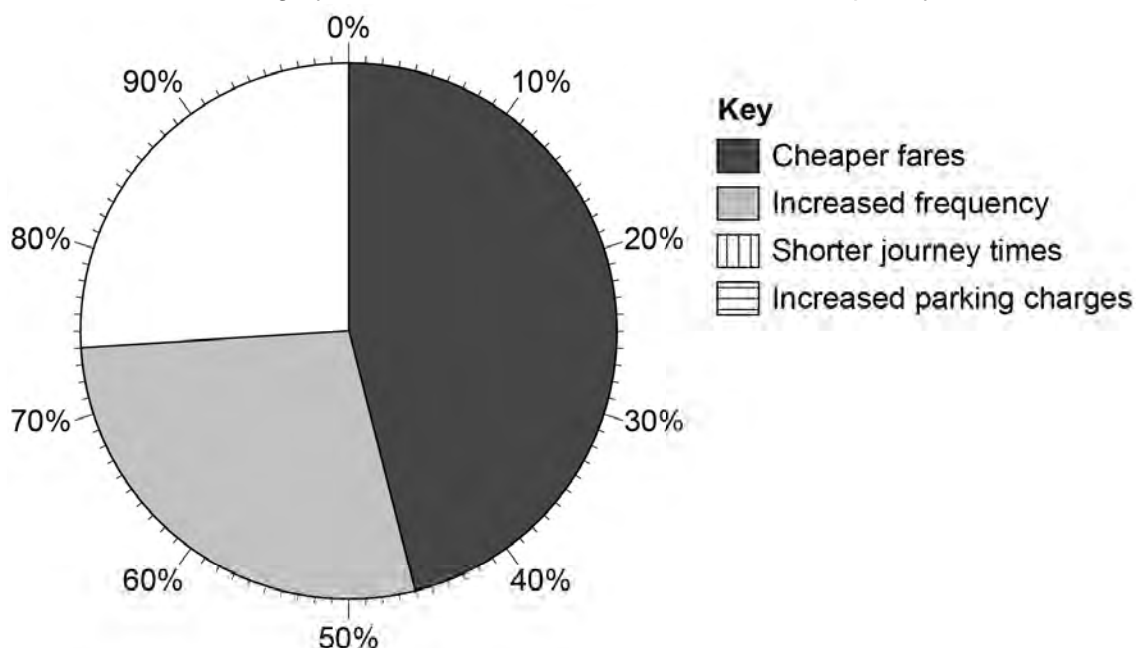
_____ %



0 4 . 2 Complete the pie chart below to show the results of **Question 2** in **Figure 4**.

[1 mark]

What would encourage you to use the local bus service more frequently?



0 4 . 3 Which of the following would be an appropriate alternative way of presenting the results of **Question 2** in **Figure 4**?

Shade **one** circle only.

[1 mark]

- A** Dispersion graph ☐
- B** Divided bar chart ☐
- C** Line graph ☐
- D** Scattergraph ☐

0 4 . 4 Suggest the conclusion(s) that the student might reach in relation to the original hypothesis, 'The cost of fares is the most important factor in encouraging the use of local bus services.'

[2 marks]

Turn over ►



A student carried out an investigation to consider the question: 'Do modern business parks have a higher environmental quality than older industrial estates?'

In order to do this the student compared an old industrial estate with a recently developed business park.

Figure 5 shows the data collected at each site.

Figure 5

Survey of main functions

Old industrial estate

Street parking
Car repairs/spraying
Metal workshop
Sand/gravel distribution
Oil/coal distribution centre
Parcel distribution centre
Wood workshop
Furniture retailer

Business park

Landscaped car parks
Gym
Computer services/repairs
Business finance centre
Design centre
Car parts distribution warehouse
Business call centre
Secure storage facility

Environmental quality survey

Scores from 0 (Very poor quality) to 5 (Good quality)

	Old industrial estate	Business park
Attractiveness of buildings	2	4
Maintenance of buildings	2	4
Litter/waste	2	4
Vandalism/graffiti	3	3
Water/ground pollution	2	4
Landscaping/planting	1	5
Total Score	12	
Mean Score	2	

0 4 . 5

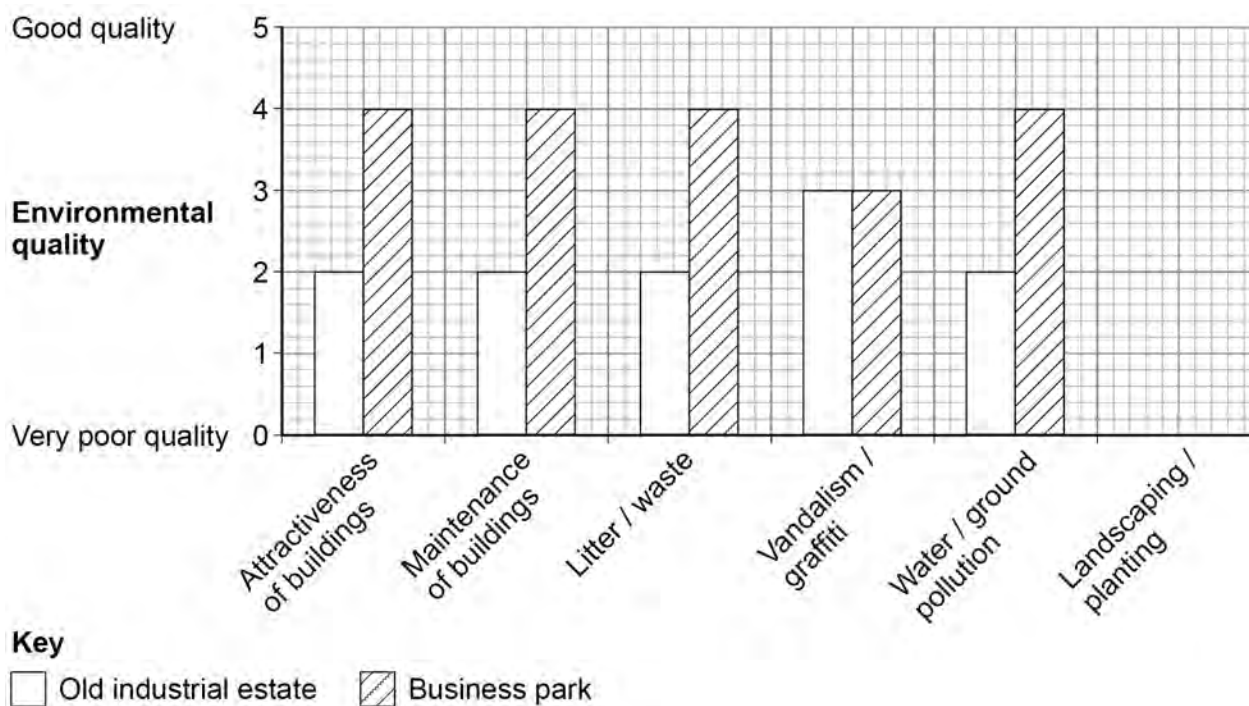
Complete the environmental quality survey table (in **Figure 5**) by calculating the Total Score and Mean Score for the business park.

[2 marks]



0 4 . 6 Complete the graph below by adding the data for landscaping/planting.

[1 mark]



0 4 . 7 Suggest **one** way that the environmental quality survey could be adapted in order to improve the results.

[1 mark]

0 4 . 8 Which of the following would be an appropriate way of presenting the 'Survey of main functions' information shown in **Figure 5**?

Shade **one** circle only.

[1 mark]

- A** Dot map ☐
- B** Flow line map ☐
- C** Land use map ☐
- D** Proportional symbol map ☐

Turn over ►




As part of a physical geography investigation a group of students wanted to test the hypothesis that: 'The velocity (speed) of a river increases downstream.'

The students used three sites along a river, one kilometre (km) apart. At each site a ball was placed in the centre of the river and the time recorded for it to travel ten metres (m). This was repeated five times at each site.

Figure 6 shows the results of this part of the investigation.

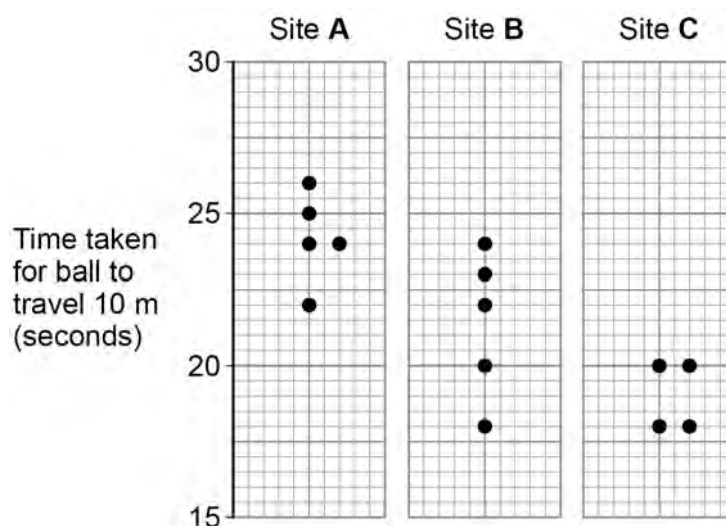
Figure 6

Time taken for ball to travel 10 m (seconds)		
Site A Upstream	Site B	Site C Downstream
		
26	22	20
24	23	18
22	18	20
24	20	18
25	24	19

$$\text{Average velocity (speed) (metres per second)} = \frac{\text{Distance}}{\text{Average time taken}}$$

0 4 . 9 Complete the dispersion graph below by filling in the missing data for Site C.

[1 mark]



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0 4 . 1 0 Suggest **one** way that the data collection method could be improved.

[1 mark]

0 4 . 1 1 To what extent does the data shown in **Figure 6** support the original hypothesis, 'The velocity (speed) of a river increases downstream.'?

Use the data in **Figure 6** to support your answer.

[4 marks]

Extra space

16

Turn over for the next question

Turn over ►



0 5 . 1

For **one** of your geographical enquiries, outline **one** reason why it was important to complete a risk assessment in your planning.

[2 marks]

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

Title of human fieldwork enquiry _____

0 5 . 2

Justify the use of **one** data presentation technique, for example a graph or a map, in your **human** geography enquiry.

[3 marks]



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

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Title of physical fieldwork enquiry _____

0 5 . 3 Assess the effectiveness of **one or more** of the data collection method(s) used in your **physical** geography enquiry.

[6 marks]

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Question 5 continues on the next page

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END OF QUESTIONS



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