AQA

Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

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.

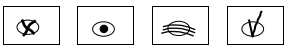
For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	

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**.

Do not write outside the box

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]

Do not write outside the box

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

[6 marks]

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

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0 1 . 5 'The housing challenge in England is not just about building more houses.'

Use information from **Figure 1** to discuss this statement.

[6 marks]

Extra space

17

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

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]

Do not write outside the box

Extra space

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

[2 marks]

1

2

8

Do not write outside the box

Study **Figure 3** in the resources booklet, 'Different perspectives on the Tudeley Village development'.

0 3 To what extent do you think that the Tudeley Village development will be a sustainable settlement?

Use evidence from the resources booklet and your own understanding.

[9 marks]
[+3 SPaG marks]

Extra space

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12

End of Section A

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Turn over for the next section

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ANSWER IN THE SPACES PROVIDED

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Section B Fieldwork

Answer **all** questions in this section.

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]

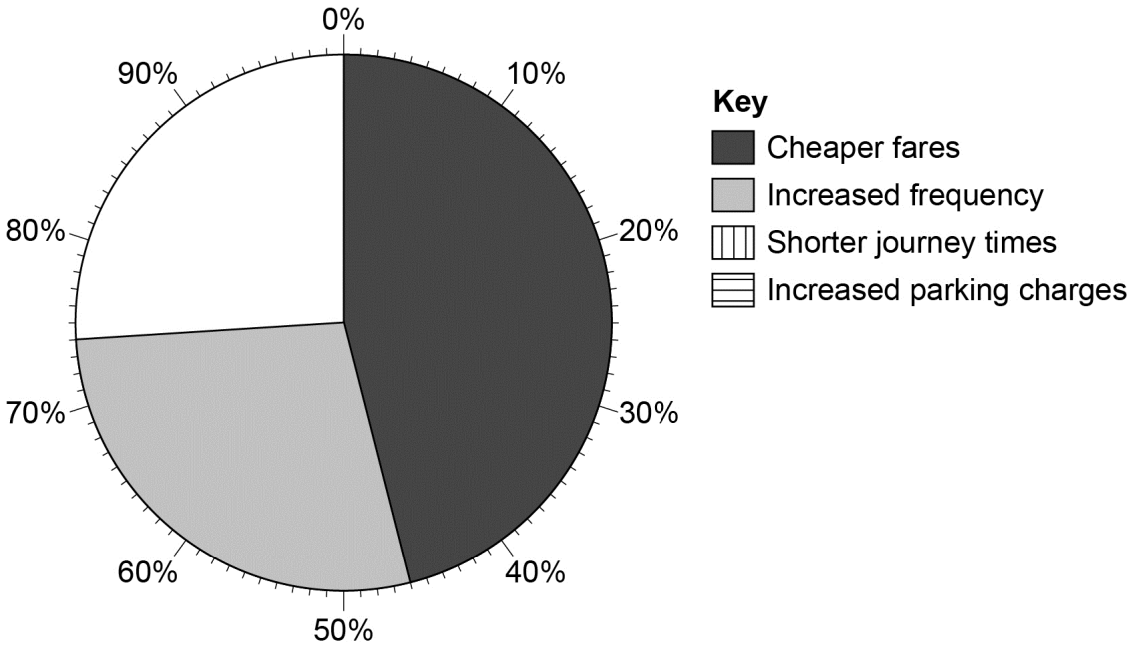
_____ %

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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]

Do not write outside the box

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	**Business park**
Street parking	Landscaped car parks
Car repairs/spraying	Gym
Metal workshop	Computer services/repairs
Sand/gravel distribution	Business finance centre
Oil/coal distribution centre	Design centre
Parcel distribution centre	Car parts distribution warehouse
Wood workshop	Business call centre
Furniture retailer	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**	

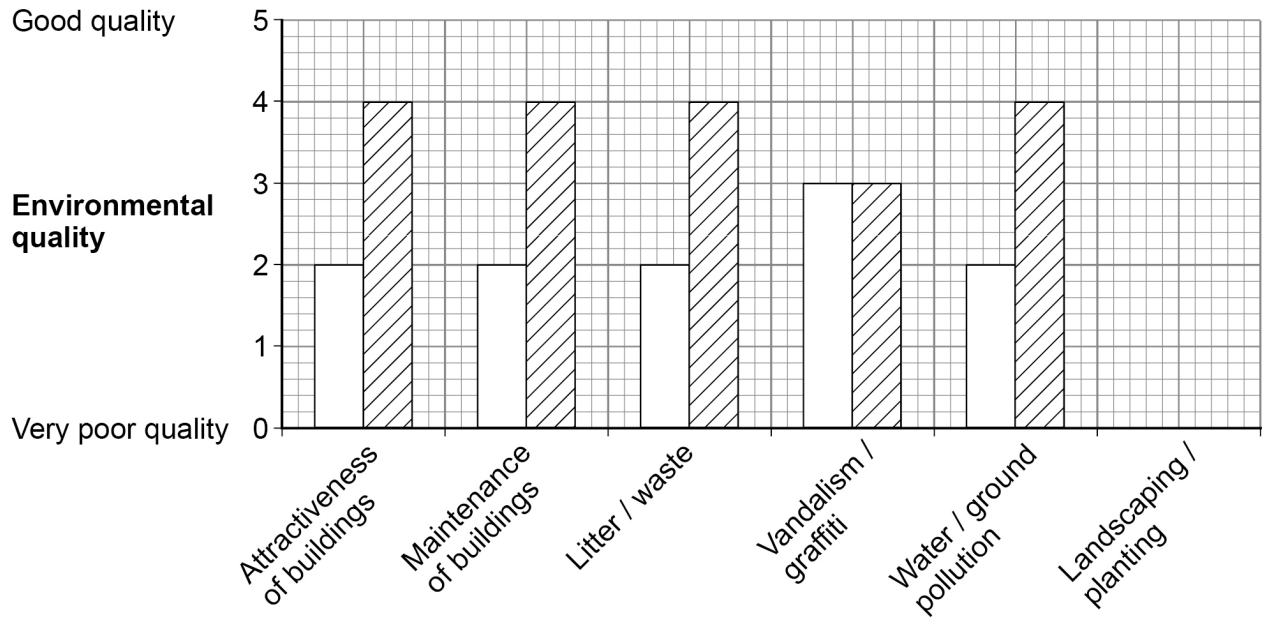
0 4 . 5 Complete the environmental quality survey table (in **Figure 5**) by calculating the Total Score and Mean Score for the business park.

[2 marks]

Do not write outside the box

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 ⬭

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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.

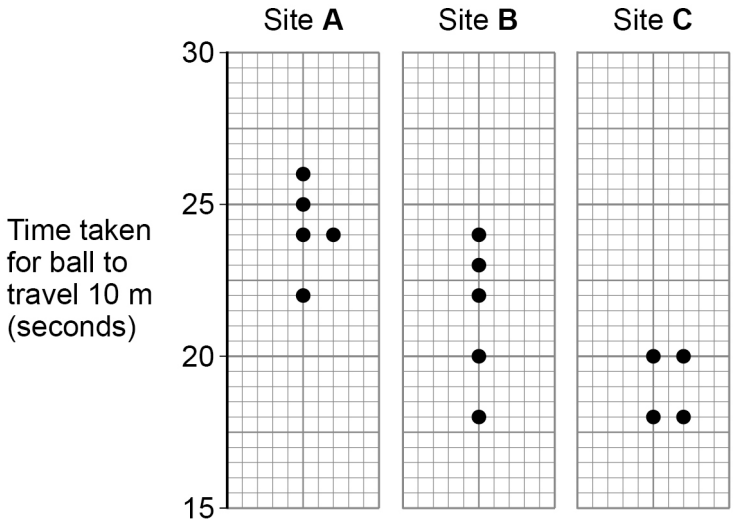
Figure 6

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

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

Do not write outside the box

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]

Do not write outside the box

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

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]

Extra space _____

Question 5 continues on the next page

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0 5 . 4 For **one** of your fieldwork enquiries, to what extent did your results and conclusions answer the enquiry question or hypothesis?

[9 marks]
[+3 SPaG marks]

Title of fieldwork enquiry _____

Extra space _____

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23

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