



Surname _____

Forename(s) _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

GCSE

GEOGRAPHY

Paper 3 Geographical applications

8035/3

Friday 14 June 2024 Morning

Time allowed: 1 hour 30 minutes

At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.

[Turn over]



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

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.**
- **Answer ALL questions.**
- **You must answer the questions in the spaces provided. Do NOT write on blank pages.**
- **If you need 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

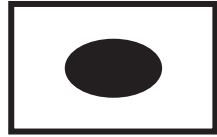
- **The marks for questions are shown in brackets.**
- **The total number of marks available for this paper is 76.**
- **Spelling, punctuation, grammar and specialist terminology will be assessed in Questions 03 and 05.4.**
- **HIC is a higher income country.**
- **LIC is a lower income country.**
- **NEE is a newly emerging economy.**

**DO NOT TURN OVER UNTIL TOLD
TO DO SO**

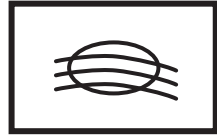


For the multiple-choice questions, shade the circle next to the correct answer.

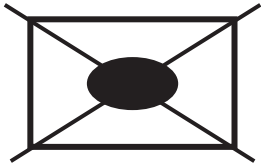
CORRECT METHOD



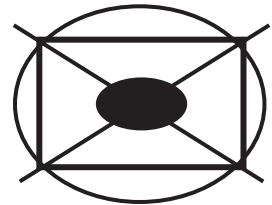
WRONG METHODS



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, on pages 4–15 of 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

[Turn over]



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



[Turn over]



0 1 . 4

Give TWO ways urban sprawl can damage the environment. [2 marks]

1 _____

2 _____

17

[Turn over]



Study FIGURE 2, on pages 16–25 of 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

[Turn over]



0	2	.	4
---	---	---	---

Suggest TWO reasons why people might be attracted to live in Tudeley Village.
[2 marks]

1

2

8



Study FIGURE 3, on pages 27–36 of 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]**

[Turn over]



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, on page 24, shows the results of the interviews.

[Turn over]





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

25

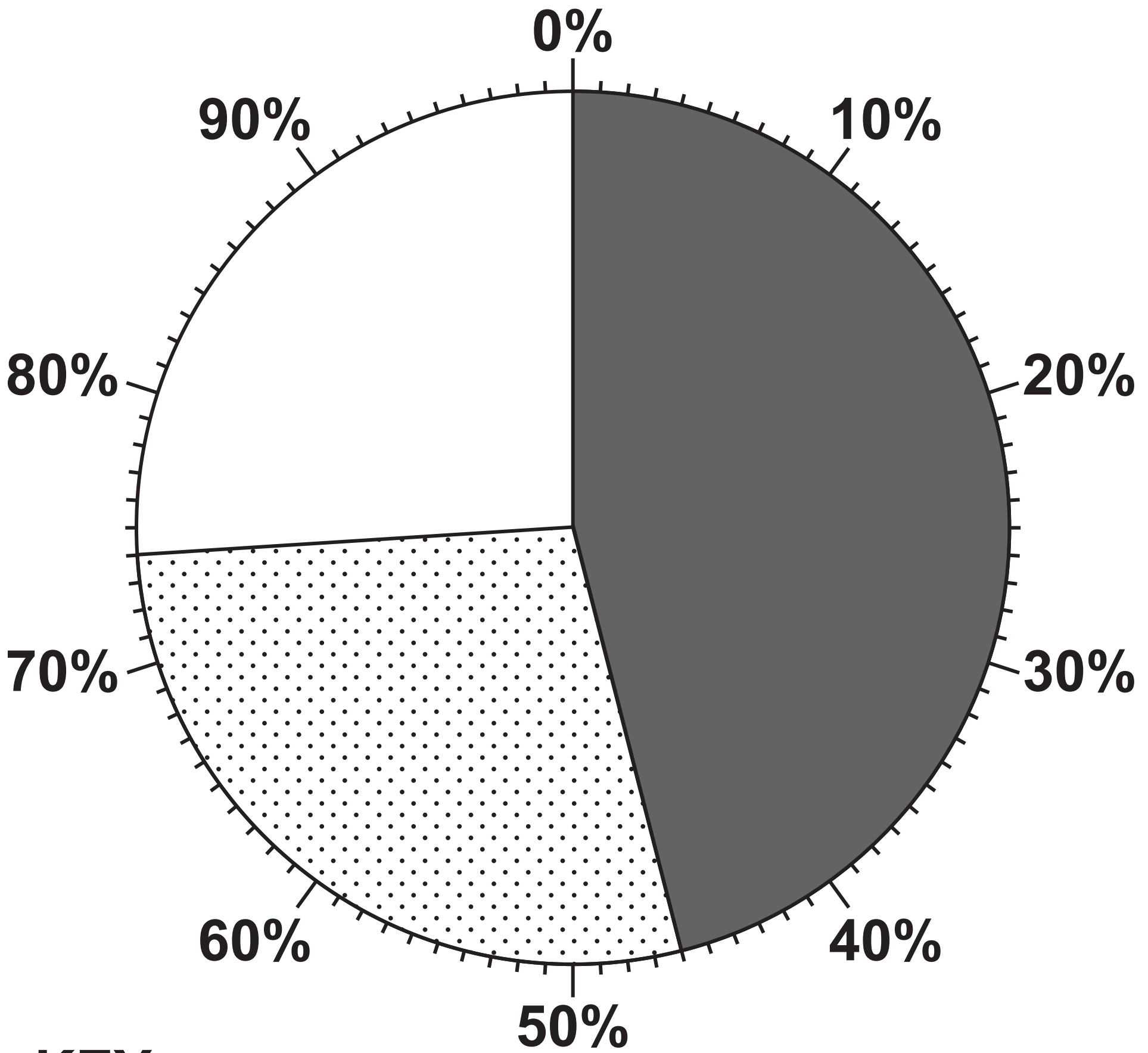
0 4 . 1

What percentage of the people who were interviewed considered cleanliness to be reasonable? [1 mark]





%

[Turn over]

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



KEY

-  Cheaper fares
-  Increased frequency
-  Shorter journey times
-  Increased parking charges



0 4 . 2

**Complete the pie chart, on the opposite page, to show the results of QUESTION 2 in FIGURE 4, on pages 24 and 25.
[1 mark]**

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

[Turn over]



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]



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, on pages 30 and 31, shows the data collected at each site.

[Turn over]





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



3 1

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	

[Turn over]

0 4 . 5

Complete the environmental quality survey table (in FIGURE 5, on page 31) by calculating the Total Score and Mean Score for the business park. [2 marks]

0 4 . 6

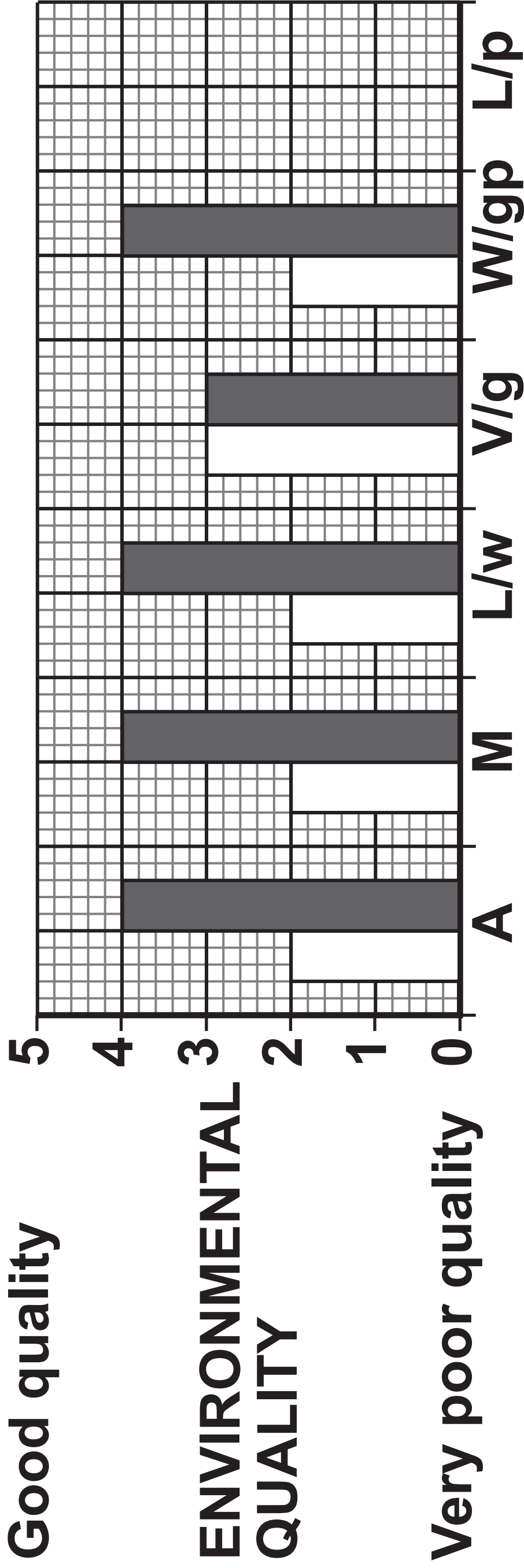
Complete the graph, on the opposite page, by adding the data for landscaping/ planting. [1 mark]





Good quality

ENVIRONMENTAL QUALITY



KEY

A = Attractiveness of buildings

M = Maintenance of buildings

L/w = Litter/waste

V/g = Vandalism/graffiti

W/gp = Water/ground pollution

L/p = Landscaping/planting

□ Old industrial estate

■ Business park

[Turn over]

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, on pages 30 and 31?

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

AVERAGE VELOCITY = $\frac{\text{Distance}}{\text{Average time taken}}$
(SPEED)
(metres per second)

[Turn over]



04.9

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

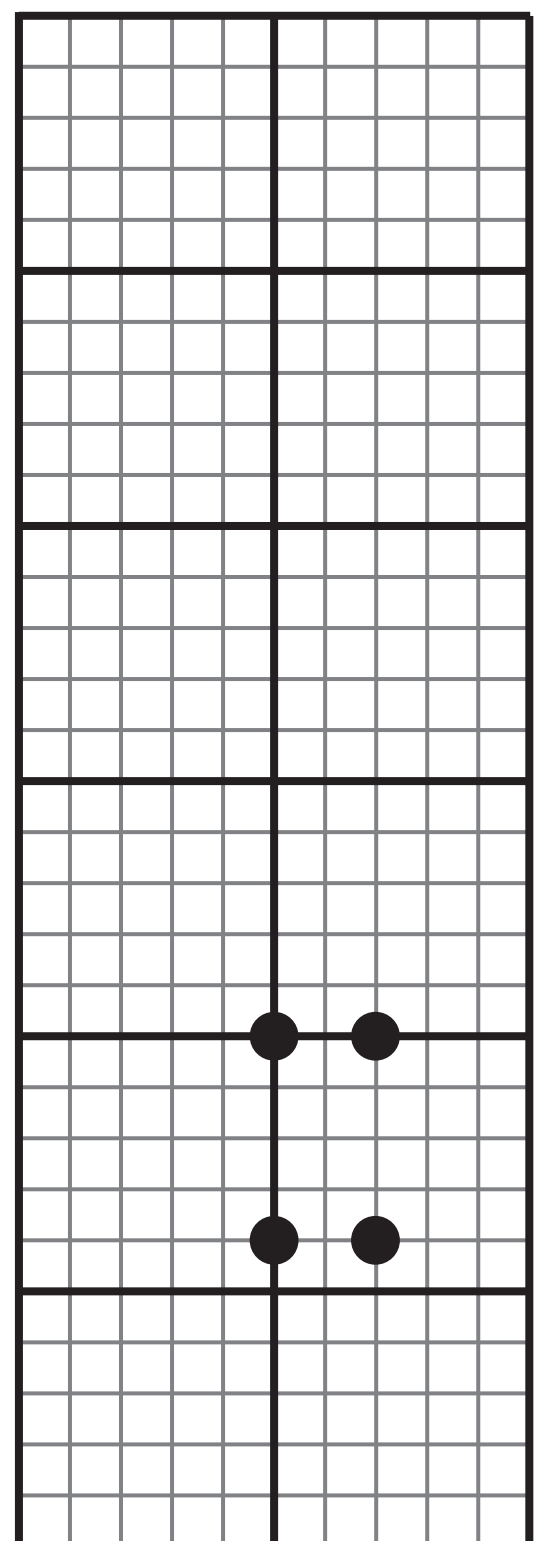
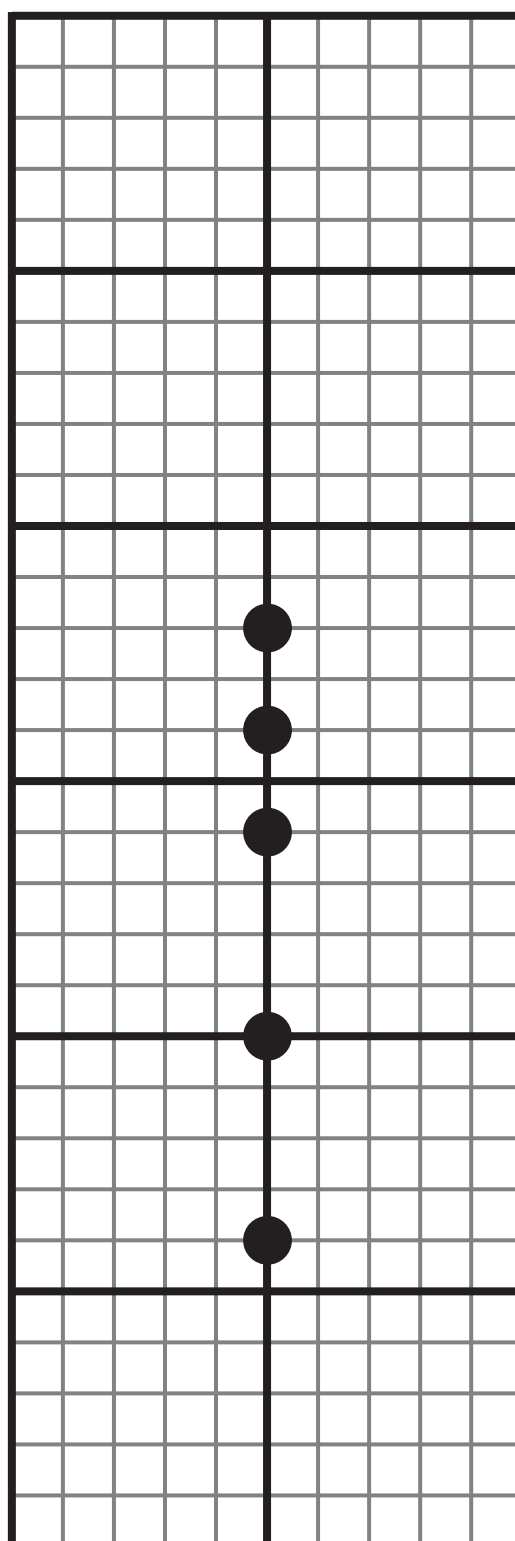
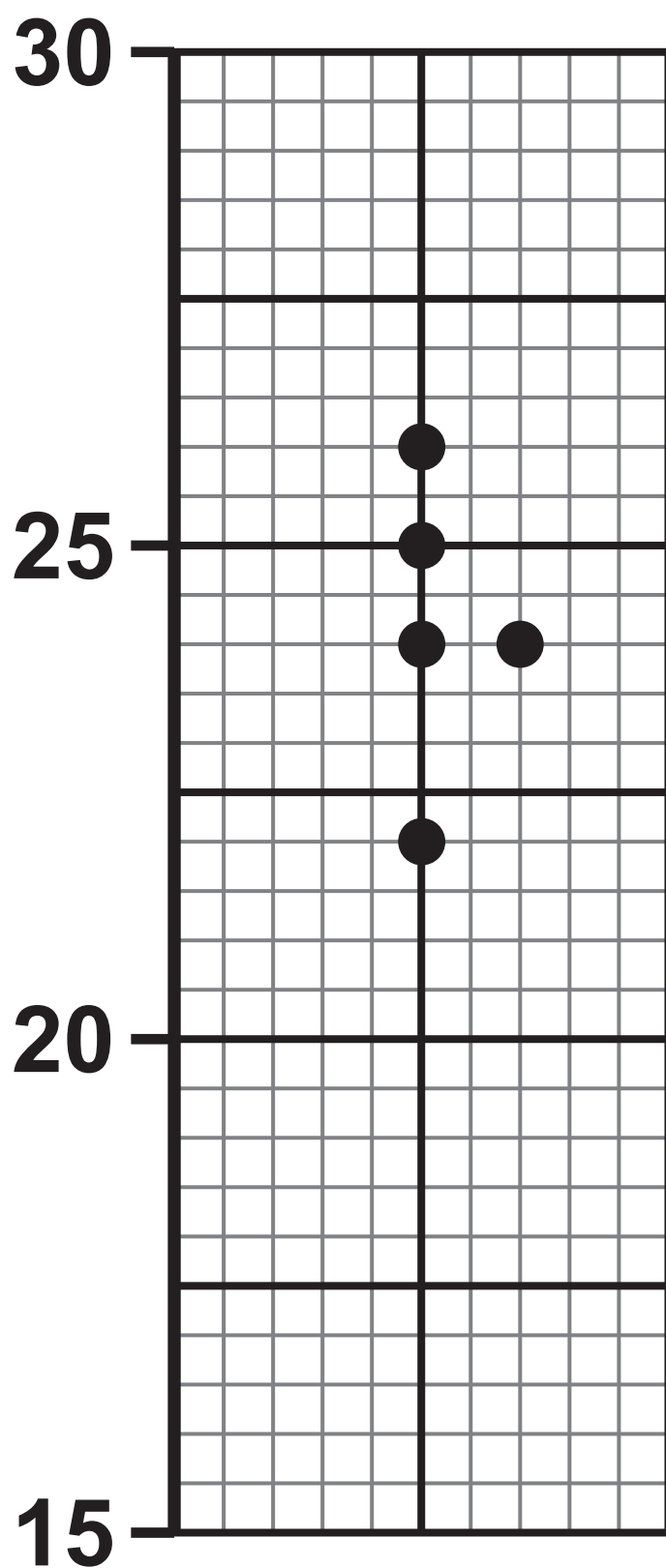
[1 mark]

Time taken
for ball to
travel 10 m
(seconds)

Site A

Site B

Site C



0	4	.	1	0
---	---	---	---	---

Suggest ONE way that the data collection method could be improved. [1 mark]

[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]



BLANK PAGE

[Turn over]



Write the title of your HUMAN geography fieldwork enquiry.

TITLE OF HUMAN FIELDWORK ENQUIRY



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

**TITLE OF PHYSICAL FIELDWORK
ENQUIRY**

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

[Turn over]



23

END OF QUESTIONS



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

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