Cambridge Assessment International Education

Cambridge IGCSE™

GEOGRAPHY **0460/43**

Paper 4 Alternative to Coursework **May/June 2020**

INSERT **1 hour 30 minutes**

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INFORMATION

- This insert contains additional resources referred to in the questions.
- You may annotate this insert and use the blank spaces for planning. **Do not write your answers** on the insert.

This document has **8** pages. Blank pages are indicated.

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Fig. 1.1 for Question 1

Employee questionnaire

I am a student at Rivington School. Please answer the following questions for my IGCSE Geography fieldwork.

What type of work do you do?

☐ Research and Development ☐ Component Assembly

1. In which part of the urban area do you live?

☐	Wirral	☐	Prescot
☐	Liverpool	☐	Huyton
☐	Crosby	☐	Rainford
☐	Formby	☐	St Helens
☐	Southport	☐	Whiston
☐	West Lancashire	☐	Haydock
☐	Kirkby		

2. What are the **two** main disadvantages of living in your chosen area?

1. _____

2. _____

Thank you for your help.

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Fig. 1.2 for Question 1

Part of a student's recording sheet

Part of the urban area	Research and development employees	Assembly work employees
Wirral	𝍸 |||	|||
Liverpool	𝍸	𝍸 𝍸 𝍸 𝍸 |||
Crosby	𝍸 |	||||
Formby	𝍸 𝍸	|
Southport	𝍸 𝍸 𝍸 |	|
West Lancashire	𝍸 ||	||||

Table 1.1 for Question 1

Answers to Question 1 in the questionnaire:

In which part of the urban area do you live?

Part of the urban area	Research and development employees	Assembly work employees
Wirral	8	3
Liverpool	5	23
Crosby	6	4
Formby	**10**	1
Southport	16	1
West Lancashire	7	4
Kirkby	**2**	16
Prescot	7	**15**
Huyton	3	19
Rainford	9	2
St Helens	9	7
Whiston	8	3
Haydock	10	2
Total	100	100

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Table 1.2 for Question 1

Answers to Question 2 in the questionnaire:

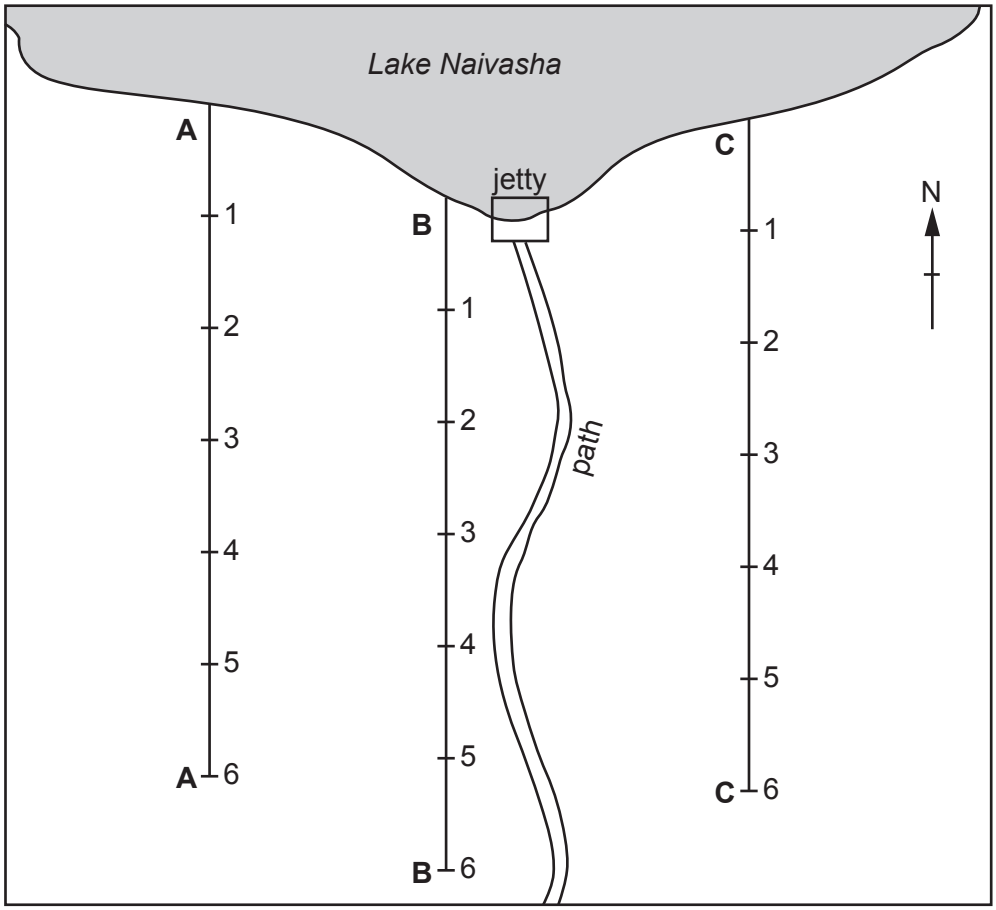
What are the two main disadvantages of living in your chosen area?

Disadvantage	Research and development employees	Assembly work employees
The journey to work takes a long time	36	2
Congested roads on the journey to work	32	5
Overcrowded trains on the journey to work	18	6
Noise from traffic and aircraft	8	12
Social disorder, e.g. gangs, graffiti, vandalism	3	**34**
No open spaces for recreation	1	**23**
Poor schools	2	**18**
Total	100	100

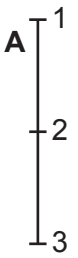
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Fig. 2.1 for Question 2

Fieldwork sites



Key



transect line and fieldwork sites

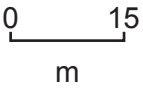


Fig. 2.2 for Question 2

Measuring infiltration

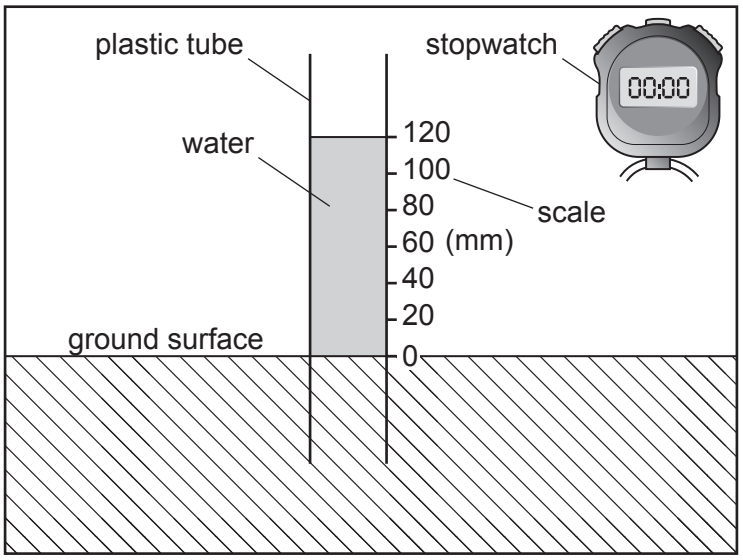


Table 2.1 for Question 2

Results of students' measurements of water level along transect A

Time of measurement (min)	Water level in plastic tube (mm)					
	Transect A					
	site 1	site 2	site 3	site 4	site 5	site 6
0	120	120	120	120	120	120
1	119	115	115	115	111	118
2	117	109	109	106	98	115
3	115	100	74	99	80	113
4	110	95	45	88	70	111
5	108	84	34	81	62	108
6	105	76	18	76	50	106
7	102	63	10	69	35	103
8	100	55	5	**63**	24	96
9	98	53	2	**58**	16	92
10	95	48	0	**55**	2	85

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Table 2.2 for Question 2

Infiltration rate at sites away from lake

Site number	Distance from lake (m)	Infiltration rate (mm per min)		
		Transect **A**	Transect **B**	Transect **C**
1	15	2.5	1.5	18.2
2	30	7.2	2.0	20.0
3	45	12.0	5.1	13.3
4	60	6.5	11.3	17.1
5	75	11.8	13.3	13.3
6	90	**3.5**	17.1	**15.0**

Table 2.3 for Question 2

Gradient results at sites on transect C

Site number	Slope gradient (°)	Infiltration rate (mm per min)
1	7	18.2
2	4	20.0
3	2	13.3
4	6	17.1
5	10	13.3
6	**9**	**15.0**

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Table 2.4 for Question 2

Vegetation at each fieldwork site

Transect A

	site 1	site 2	site 3	site 4	site 5	site 6
Infiltration rate (mm per min)	2.5	7.2	12.0	6.5	11.8	3.5
Type of vegetation	scrub grass	grass	dense grass	grass	dense grass	patchy grass

Transect B

	site 1	site 2	site 3	site 4	site 5	site 6
Infiltration rate (mm per min)	1.5	2.0	5.1	11.3	13.3	17.1
Type of vegetation	bare soil	scrub grass	grass	dense grass	dense grass	dense grass & bushes

Transect C

	site 1	site 2	site 3	site 4	site 5	site 6
Infiltration rate (mm per min)	18.2	20.0	13.3	17.1	13.3	15.0
Type of vegetation	dense grass & papyrus grass	dense grass & papyrus grass	dense grass	dense grass	dense grass	dense grass

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