



# Cambridge IGCSE™

---

**GEOGRAPHY**

**0460/43**

Paper 4 Alternative to Coursework

**May/June 2020**

INSERT

**1 hour 30 minutes**

---

**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.

## 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.

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	III	
Liverpool		
Crosby	I	
Formby		I
Southport	I	I
West Lancashire	II	

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	<b>10</b>	1
Southport	16	1
West Lancashire	7	4
Kirkby	<b>2</b>	16
Prescot	7	<b>15</b>
Huyton	3	19
Rainford	9	2
St Helens	9	7
Whiston	8	3
Haydock	10	2
Total	100	100

Table 1.2 for Question 1

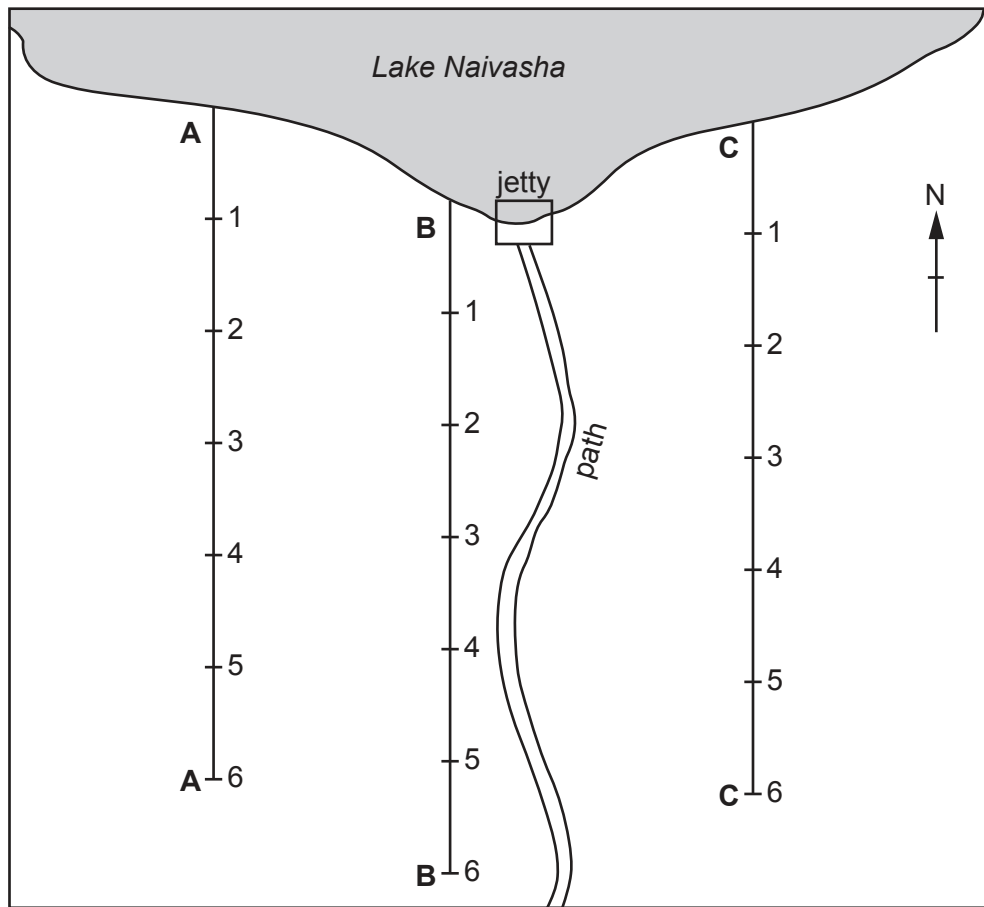
Answers to Question 2 in the questionnaire:

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	<b>34</b>
No open spaces for recreation	1	<b>23</b>
Poor schools	2	<b>18</b>
Total	100	100

Fig. 2.1 for Question 2

Fieldwork sites



Key

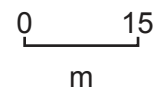
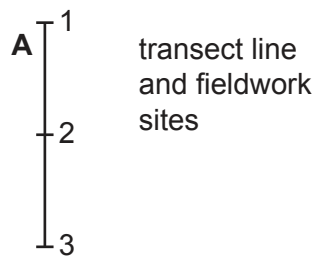


Fig. 2.2 for Question 2

## Measuring infiltration

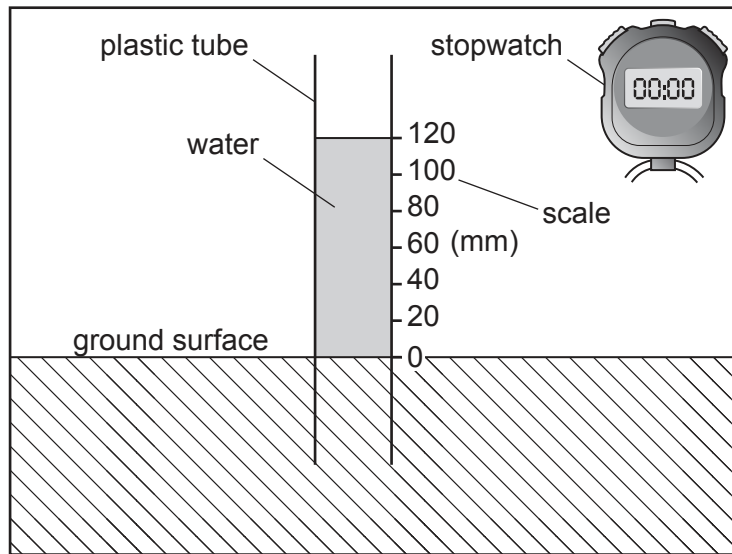


Table 2.1 for Question 2

## 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	<b>63</b>	24	96
9	98	53	2	<b>58</b>	16	92
10	95	48	0	<b>55</b>	2	85

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	<b>3.5</b>	17.1	<b>15.0</b>

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	<b>9</b>	<b>15.0</b>

**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

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at [www.cambridgeinternational.org](http://www.cambridgeinternational.org) after the live examination series.

Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.