

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

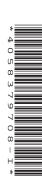


Fig. 1.1 for Question 1

Employee questionnaire

Geography fieldwork. What type of work do you do?					
Research and Development Component Assembly					
1. In which part of the urban area do you liv	re?				
Wirral	Prescot				
Liverpool	Huyton				
Crosby	Rainford				
Formby	St Helens				
Southport	Whiston				
West Lancashire	West Lancashire Haydock				
Kirkby	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	III
Liverpool	#	
Crosby	JH 1	IIII
Formby	HH HH	1
Southport	# # 1	I
West Lancashire	1HL II	IIII

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

Table 1.2 for Question 1

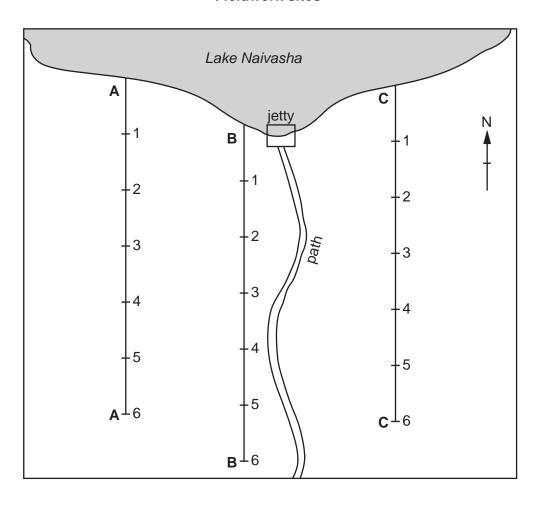
Answers to Question 2 in the questionnaire:

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

Fig. 2.1 for Question 2

Fieldwork sites



Key

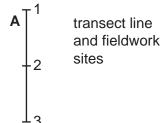




Fig. 2.2 for Question 2

Measuring infiltration

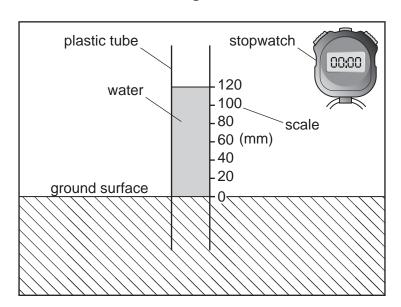


Table 2.1 for Question 2

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	63	24	96
9	98	53	2	58	16	92
10	95	48	0	55	2	85

Table 2.2 for Question 2
Infiltration rate at sites away from lake

Site number Distance from		Infiltration rate (mm per min)		
Site number	Site number lake (m)	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

Table 2.4 for Question 2

Vegetation at each fieldwork site

Transect A

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

Transect B

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

Transect C

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

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