Cambridge Assessment International Education

Cambridge IGCSE™

GEOGRAPHY **0460/43**

Paper 4 Alternative to Coursework **October/November 2022**

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.

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Fig. 1.1 for Question 1

City centre shopping area



Indoor shopping mall



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Fig. 1.2 for Question 1

Questionnaire

I am a student at the International School. I am doing a survey as part of my Geography coursework. Please will you answer the following questions?

1. How far have you travelled to the shopping centre today?

   .....

2. How often do you come to the shopping centre?

   .....

   Thank you for your help

Table 1.1 for Question 1

Answers to question 1: How far have you travelled to the shopping centre today?

distance travelled (km)	city centre shops (number of people)	indoor shopping mall (number of people)
0 to 5	18	10
6 to 10	21	**17**
11 to 15	25	19
16 to 20	22	19
21 to 25	11	**20**
more than 25	3	15

Table 1.2 for Question 1

Answers to question 2: How often do you come to the shopping centre?

frequency	city centre shops (number of people)	indoor shopping mall (number of people)
every day	6	0
every two or three days	10	3
once a week	36	19
once a month	**30**	57
less than once a month	**18**	21

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Fig. 1.5 for Question 1

Extract from student's fieldwork diary

Pedestrian count method

I did the pedestrian count by myself. I counted people who walked past me during the morning in the indoor shopping mall and during the afternoon in the city centre. I counted every 50 people in my head and then marked '50' on my recording sheet. Although it was sunny in the morning, it rained during the afternoon which made recording difficult.

Table 1.3 for Question 1

Results of pedestrian count

time of count	number of people in the city centre shopping area	number of people in the indoor shopping mall
10:00 (10 am)	141	69
13:00 (1 pm)	156	110
16:00 (4 pm)	**95**	137

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Table 2.2 for Question 2

Average size of beach samples

distance from low water mark (m)	average size of beach material (mm)	
	beach A	beach B
0	8	20
3	4	28
6	5	35
9	12	42
12	9	40
15	17	53
18	3	**54**
21	7	70
24	15	68
27	9	89
30	8	98
average size of all sites	8.8	54.3

Fig. 2.2 for Question 2

Measuring equipment

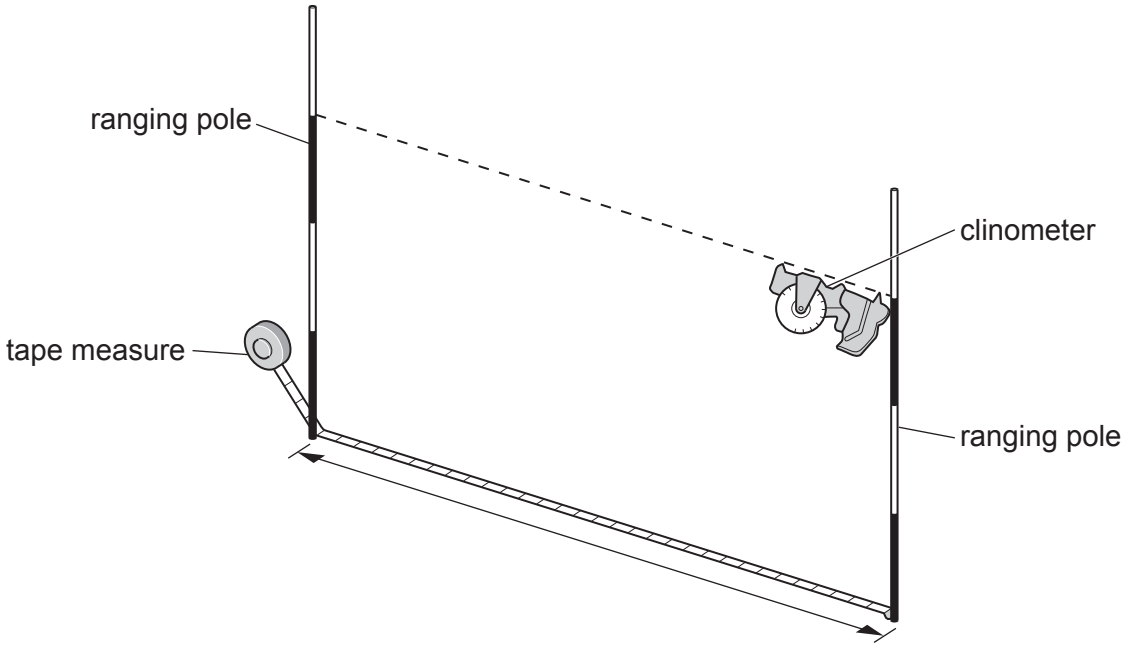


Table 2.3 for Question 2

Angle of slope measurements

distance from low water mark (m)	**angle of slope in degrees (°)**	
	beach A	beach B
0	3	7
3	7	15
6	9	12
9	5	6
12	1	**17**
15	4	9
18	6	13
21	8	8
24	6	19
27	3	11
30	7	6
	average = 5.4	**average = 11.2**

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Fig. 2.4 for Question 2

Three methods of coastal protection

Rip rap



Gabions



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Sea wall



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Table 2.4 for Question 2

Results of students' bi-polar survey

Coastal protection method: Rip rap

	students' score					
disadvantage	**–2**	**–1**	**0**	**+1**	**+2**	**advantage**
unattractive	✓					attractive
does not protect the land					✓	protects the land
does not stop erosion by waves					✓	stops all erosion by waves
danger of accident walking on it	✓					safe to walk on
stops access to beach	✓					allows access to beach
expensive to construct			✓			cheap to construct
construction causes lots of disturbance		✓				construction causes little disturbance
Total score = –3						

Coastal protection method: Gabions

	students' score					
disadvantage	**–2**	**–1**	**0**	**+1**	**+2**	**advantage**
unattractive		✓				attractive
does not protect the land					✓	protects the land
does not stop erosion by waves					✓	stops all erosion by waves
danger of accident walking on it			✓			safe to walk on
stops access to beach			✓			allows access to beach
expensive to construct		✓				cheap to construct
construction causes lots of disturbance		✓				construction causes little disturbance
Total score = +1						

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Coastal protection method: Sea wall

	students' score					
disadvantage	**–2**	**–1**	**0**	**+1**	**+2**	**advantage**
unattractive	✓					attractive
does not protect the land					✓	protects the land
does not stop erosion by waves					✓	stops all erosion by waves
danger of accident walking on it		✓				safe to walk on
stops access to beach	✓					allows access to beach
expensive to construct	✓					cheap to construct
construction causes lots of disturbance	✓					construction causes little disturbance
Total score = –5						

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