



# Cambridge IGCSE™

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**GEOGRAPHY****0460/42**

Paper 4 Alternative to Coursework

**May/June 2023**

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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This document has **8** pages. Any blank pages are indicated.

Table 1.1 for Question 1

## Results of wave frequency measurements

| measurement number | number of waves breaking per minute |         |             |
|--------------------|-------------------------------------|---------|-------------|
|                    | beach A                             | beach B | beach C     |
| 1                  | 7                                   | 10      | 12          |
| 2                  | 7                                   | 9       | 13          |
| 3                  | 8                                   | 11      | 14          |
| 4                  | 9                                   | 11      | 12          |
| 5                  | 8                                   | 10      | 15          |
| 6                  | 8                                   | 8       | 13          |
| 7                  | 7                                   | 10      | 14          |
| 8                  | 10                                  | 9       | 13          |
| 9                  | 8                                   | 9       | 15          |
| 10                 | 9                                   | 11      | 12          |
| average            | 8.1                                 | 9.8     | <b>13.3</b> |

Fig. 1.2 for Question 1

## Measuring a beach profile

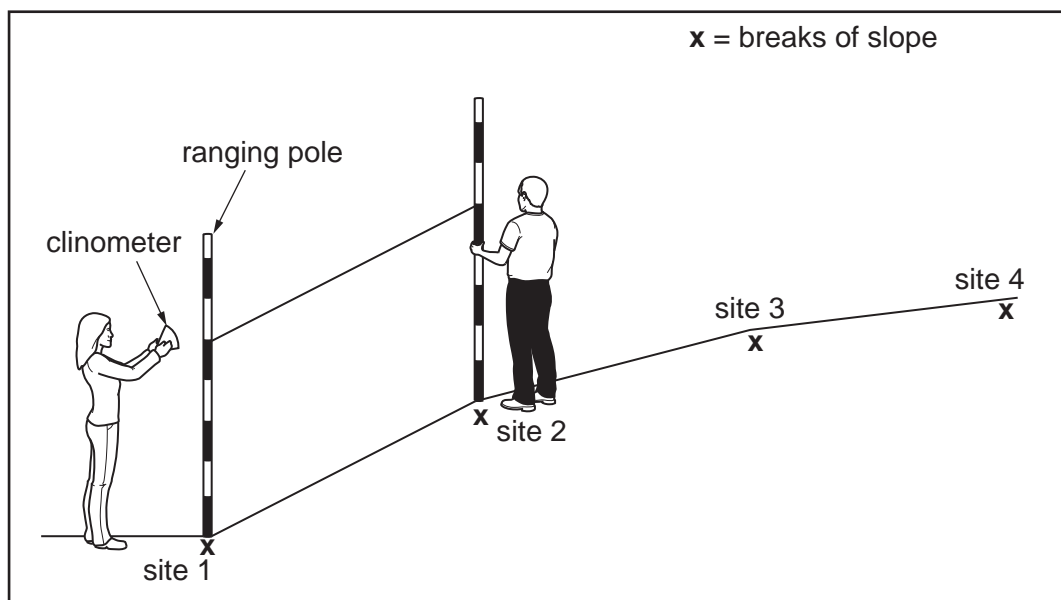


Table 1.2 for Question 1

## Results of angle of slope measurements


|  |                    | beach A                       | beach B                       | beach C                       |
|--|--------------------|-------------------------------|-------------------------------|-------------------------------|
|  | measurement from   | angle of slope in degrees (°) | angle of slope in degrees (°) | angle of slope in degrees (°) |
| low water mark<br> | site 1 to site 2   | 5                             | 6                             | 7                             |
|  | site 2 to site 3   | <b>9</b>                      | 7                             | 10                            |
|  | site 3 to site 4   | 8                             | 11                            | 11                            |
|  | site 4 to site 5   | 3                             | 5                             | 13                            |
|  | site 5 to site 6   | 4                             | 7                             | 9                             |
|  | site 6 to site 7   | 6                             | 5                             | 12                            |
|  | site 7 to site 8   | 3                             | 8                             | 8                             |
|  | site 8 to site 9   | 4                             | 8                             | 14                            |
|  | site 9 to site 10  | 2                             | 7                             | 12                            |
|  | site 10 to site 11 |                               | 5                             | 9                             |
| back of beach  | site 11 to site 12 |                               | 6                             |                               |
| average angle of slope   |                    | 4.9                           | <b>6.8</b>                    | 10.5                          |

Table 1.3 for Question 1

The size of pebbles measured at beach C  
(in order of size)

| size of pebble<br>(cm) | size of pebble<br>(cm) |
|------------------------|------------------------|
| 3.0                    | 9.8                    |
| 3.4                    | 11.1                   |
| 3.6                    | 11.6                   |
| 3.7                    | 11.7                   |
| 4.1                    | 12.2                   |
| 4.5                    | 12.7                   |
| 4.5                    | 12.9                   |
| 6.1                    | 13.5                   |
| 6.7                    | 13.8                   |
| 6.9                    | 14.2                   |
| 7.2                    | 14.5                   |
| 8.4                    | 14.5                   |
| 8.6                    | 14.7                   |
| 9.3                    | 14.8                   |
| 9.8                    | 14.9                   |

## Fig. 2.1 for Question 2

## Resident questionnaire

Chamaita

Kanyam

(circle the name of the village)

I am doing a survey about economic development in the village. It is for my Geography fieldwork. Please answer the following questions.

1. Which one of the following describes your level of education?

no formal education

primary school education

secondary school education

higher education

2. What type of fuel do you use for cooking in your house?

biogas

charcoal

electricity

firewood

liquefied petroleum gas (LPG)

3. What is the main type of fuel used for lighting in your house?

battery

candles

electricity

kerosene

4. What is your main type of work or employment?

.....

5. What are the main problems which restrict economic development in the village?

.....

.....

Thank you for your time.

Table 2.1 for Question 2

## Results of Question 1 in the questionnaire

## Level of education

|                            | Chamaita inhabitants (%) | Kanyam inhabitants (%) |
|----------------------------|--------------------------|------------------------|
| no formal education        | 30                       | <b>25</b>              |
| primary school education   | 40                       | <b>17</b>              |
| secondary school education | 22                       | <b>43</b>              |
| higher education           | 8                        | <b>15</b>              |

Table 2.2 for Question 2

## Results of Question 2 in the questionnaire

## Fuels used for cooking

| fuel        | percentage (%) of households in Chamaita | percentage (%) of households in Kanyam |
|-------------|--|--|
| biogas      | 6  | 10                                     |
| charcoal    | 27                                       | 11                                     |
| electricity | 14                                       | 39                                     |
| firewood    | 46                                       | 30                                     |
| LPG         | 7  | 10                                     |

Table 2.3 for Question 2

## Results of Question 3 in the questionnaire

## Fuels used for lighting

| fuel        | percentage (%) of households in Chamaita | percentage (%) of households in Kanyam |
|-------------|--|--|
| battery     | 6  | 3                                      |
| candles     | 33                                       | 22                                     |
| electricity | 30                                       | <b>46</b>                              |
| kerosene    | 31                                       | <b>29</b>                              |

**Table 2.4 for Question 2****Results of Question 4 in the questionnaire****Main types of work in Chamaita**

| <b>type of work or employment</b> | <b>Chamaita inhabitants (%)</b> |
|-----------------------------------|---------------------------------|
| subsistence farming               | 90                              |
| local food market trader          | 5                               |
| tool repairer                     | 3                               |
| water carrier                     | 2                               |

**Table 2.5 for Question 2****Results of Question 4 in the questionnaire****Main types of work in Kanyam**

| <b>type of work or employment</b> | <b>Kanyam inhabitants (%)</b> |
|-----------------------------------|-------------------------------|
| tourist accommodation             | 35                            |
| tourist guide                     | <b>22</b>                     |
| local gift shop                   | 20                            |
| tea plantation or tea factory     | 18                            |
| subsistence farming               | 5                             |

**Table 2.6 for Question 2****Results of Question 5 in the questionnaire****Problems which restrict economic development in Chamaita**

| <b>problem which restricts economic development</b>    | <b>number of answers</b> |
|--|--------------------------|
| isolation due to lack of roads                         | 80                       |
| young adults move away to cities in Nepal or go abroad | 73                       |
| lack of electricity                                    | 64                       |
| lack of piped water supply                             | 58                       |
| poor sanitation  | 49                       |
| insufficient teachers in the school                    | 40                       |

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