



Cambridge IGCSE™

GEOGRAPHY

0460/43

Paper 4 Alternative to Coursework

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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.

Fig. 1.1 for Question 1

Results of survey about pollution

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The scale shows the level of dissatisfaction.

If the value is 0, it means it is not a problem, and if the value is 100, it is a major problem.

Fig. 1.2 for Question 1

Visual water pollution survey recording sheet

| site number _____ | | | | | |
|--|--------------------------|---------------------------|-----------------------------------|----------------------------|------------------------------------|
| category to assess | score to give | | | | |
| | 0 points | 1 point | 2 points | 3 points | 4 points |
| water clarity | very clear | clear | fairly clear | slightly murky | murky |
| colour of the water | very clear and no colour | clear and no colour | slightly brown | dark brown | black or grey |
| stones on the bed and sides of the river or lake | clean and bare | clean | lightly covered in brown deposits | coated with brown deposits | covered in brown and grey deposits |
| weeds growing in the water | none | a little in shallow water | a lot in shallow water | a lot throughout the water | water is choked with weeds |
| grey sewage fungus | none | very little | a little | present in patches | plenty across the surface |
| scum/froth/oil on the water surface | none | a few bubbles | noticeable islands of foam | large quantities | covers the whole surface |
| rubbish dumped in the water | none | a few small items | a few large items | large and small items | many different large items |

| total score | overall description |
|--------------|---------------------|
| 0–3 | very clean |
| 4–9 | clean |
| 10–15 | fairly clean |
| 16–21 | slightly polluted |
| more than 21 | badly polluted |

Table 1.1 for Question 1

Students' total visual water pollution scores

| site | distance from city centre (km) | total visual water pollution score |
|------|--------------------------------|------------------------------------|
| 1 | 0.5 | 12 |
| 2 | 1 | 25 |
| 3 | 2.5 | 17 |
| 4 | 4 | 19 |
| 5 | 6 | 13 |
| 6 | 7.5 | 8 |
| 7 | 9.5 | 22 |

Fig. 1.5 for Question 1

Digital pH meter



Table 1.2 for Question 1

pH measurements and the land uses at the fieldwork sites

| site | pH of water | main land uses |
|----------|-------------|--|
| 1 | 7.7 | shops and offices |
| 2 | 5.9 | railway, main road, manufacturing industry |
| 3 | 6.4 | low-quality housing |
| 4 | 6.6 | low-quality housing |
| 5 | 7.3 | high-quality housing |
| 6 | 7.9 | tertiary industry, green land |
| 7 | 6.1 | squatter settlements |

Fig. 2.1 for Question 2

First part of the students' questionnaire

Rank the following factors in order of how important you think they are in causing infant mortality. Circle your decisions.

Rank 1 is **most** important and rank 5 is **least** important.

| | | | | | |
|-------------------------------|---|---|---|---|---|
| contaminated water | 1 | 2 | 3 | 4 | 5 |
| inadequate sanitation | 1 | 2 | 3 | 4 | 5 |
| lack of health care | 1 | 2 | 3 | 4 | 5 |
| malnutrition | 1 | 2 | 3 | 4 | 5 |
| overcrowded living conditions | 1 | 2 | 3 | 4 | 5 |

Table 2.1 for Question 2

Results of infant mortality question

| factor | Percentage (%) of people choosing each rank | | | | |
|-------------------------------|---|--------|-----------|-----------|-----------|
| | rank 1 | rank 2 | rank 3 | rank 4 | rank 5 |
| contaminated water | 8 | 6 | 17 | 33 | 36 |
| inadequate sanitation | 34 | 26 | 19 | 17 | 4 |
| lack of health care | 13 | 28 | 39 | 9 | 11 |
| malnutrition | 41 | 35 | 12 | 9 | 3 |
| overcrowded living conditions | 4 | 5 | 13 | 32 | 46 |

Fig. 2.3 for Question 2

Second part of the students' questionnaire

| Village has a library | Village does not have a library | (circle) | | | | | | | | | | |
|--|---------------------------------|----------|--|----------|---------------------|--|----------------------------|--|----------------------------|--|------------------------------|--|
| 1. How often do you read a book? Circle your answer <div style="display: flex; justify-content: space-around; margin-top: 5px;"> regularly occasionally rarely never </div> | | | | | | | | | | | | |
| 2. What most affects how often you read books? <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: center;">tick (✓)</th> </tr> <tr> <td>I have time to read</td> <td></td> </tr> <tr> <td>I am interested in reading</td> <td></td> </tr> <tr> <td>I have learned how to read</td> <td></td> </tr> <tr> <td>It is difficult to get books</td> <td></td> </tr> </table> | | | | tick (✓) | I have time to read | | I am interested in reading | | I have learned how to read | | It is difficult to get books | |
| | tick (✓) | | | | | | | | | | | |
| I have time to read | | | | | | | | | | | | |
| I am interested in reading | | | | | | | | | | | | |
| I have learned how to read | | | | | | | | | | | | |
| It is difficult to get books | | | | | | | | | | | | |

Table 2.2 for Question 2

Answers to question 1 in the questionnaire

How often do you read a book?

| | village with a library (%) | village without a library (%) |
|--------------|----------------------------|-------------------------------|
| regularly | 36 | 19 |
| occasionally | 28 | 21 |
| rarely | 19 | 26 |
| never | 17 | 34 |

Table 2.3 for Question 2

Answers to question 2 in the questionnaire

What most affects how often you read books?

| | village with a library | village without a library |
|------------------------------|------------------------|---------------------------|
| I have time to read | 31 | 25 |
| I am interested in reading | 24 | 7 |
| I have learned how to read | 32 | 16 |
| It is difficult to get books | 13 | 52 |
| total | 100 | 100 |

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