Cambridge Assessment International Education

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GEOGRAPHY **0460/41**

Paper 4 Alternative to Coursework **May/June 2021**

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.

This document has **12** pages. Any blank pages are indicated.

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Fig. 1.1 for Question 1

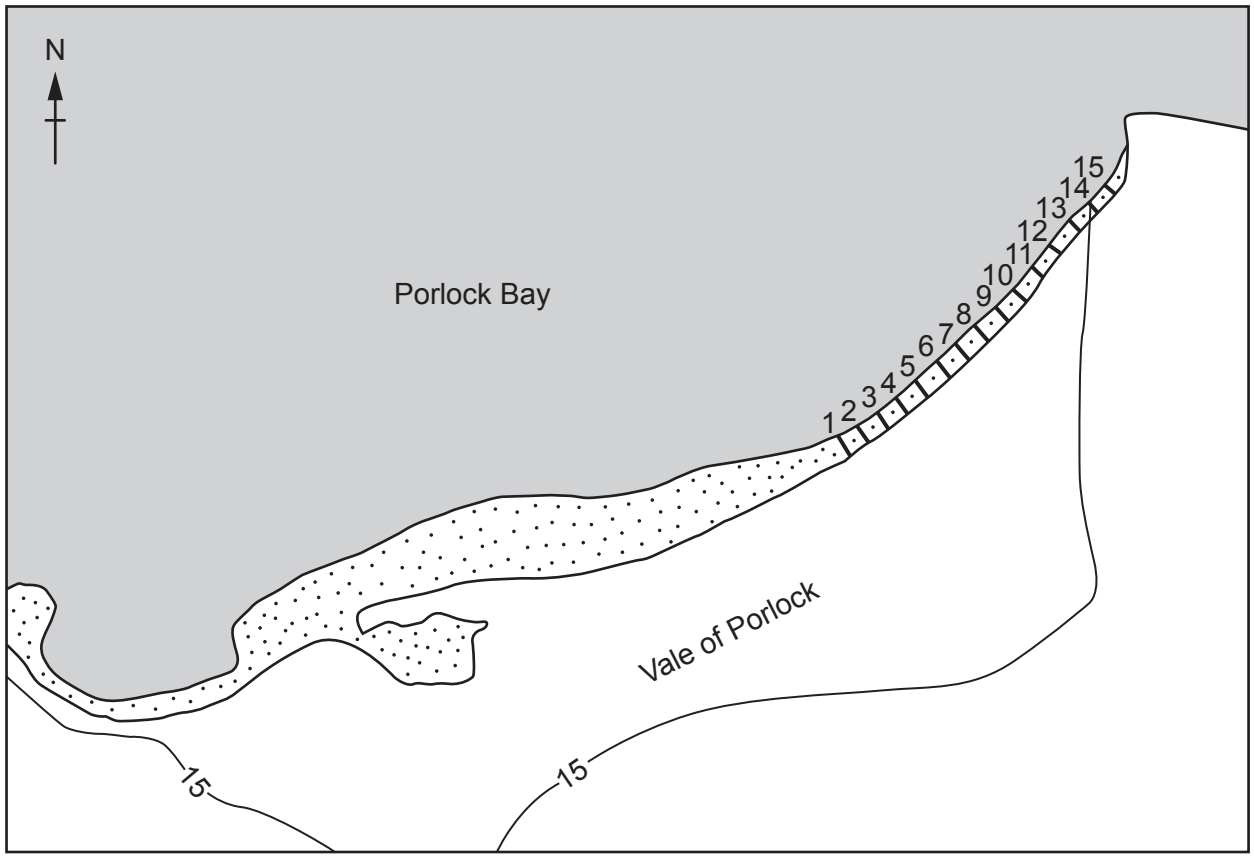
Porlock Bay



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Fig. 1.2 for Question 1

Fieldwork sampling sites



Key

1 sampling sites

shingle beach

15 contour line (m)

0 350 700 1050

m

Fig. 1.3 for Question 1

Fieldwork equipment



Table 1.1 for Question 1

Results of students' measurements

Sampling site	Distance along beach (m)	Mean (average) length of long axis (cm)
1	0	8.4
2	120	8.5
3	240	7.7
4	360	8.1
5	480	6.6
6	**600**	**6.4**
7	720	6.2
8	840	7.2
9	960	6.8
10	1080	6.2
11	1200	6.5
12	1320	5.8
13	1440	4.8
14	1560	5.0
15	1680	5.1

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[Turn over

Fig. 1.5 for Question 1

Roundness index

roundness classes	very angular	angular	slightly angular	slightly rounded	rounded	very rounded
						
roundness score	1	2	3	4	5	6

Table 1.3 for Question 1

Total roundness index scores

Sampling site	Distance along beach (m)	Total index score
1	0	27
2	120	48
3	240	36
4	360	58
5	480	33
6	600	45
7	720	31
8	840	50
9	960	39
10	1080	40
11	1200	34
12	1320	31
13	1440	38
14	1560	52
15	1680	**41**

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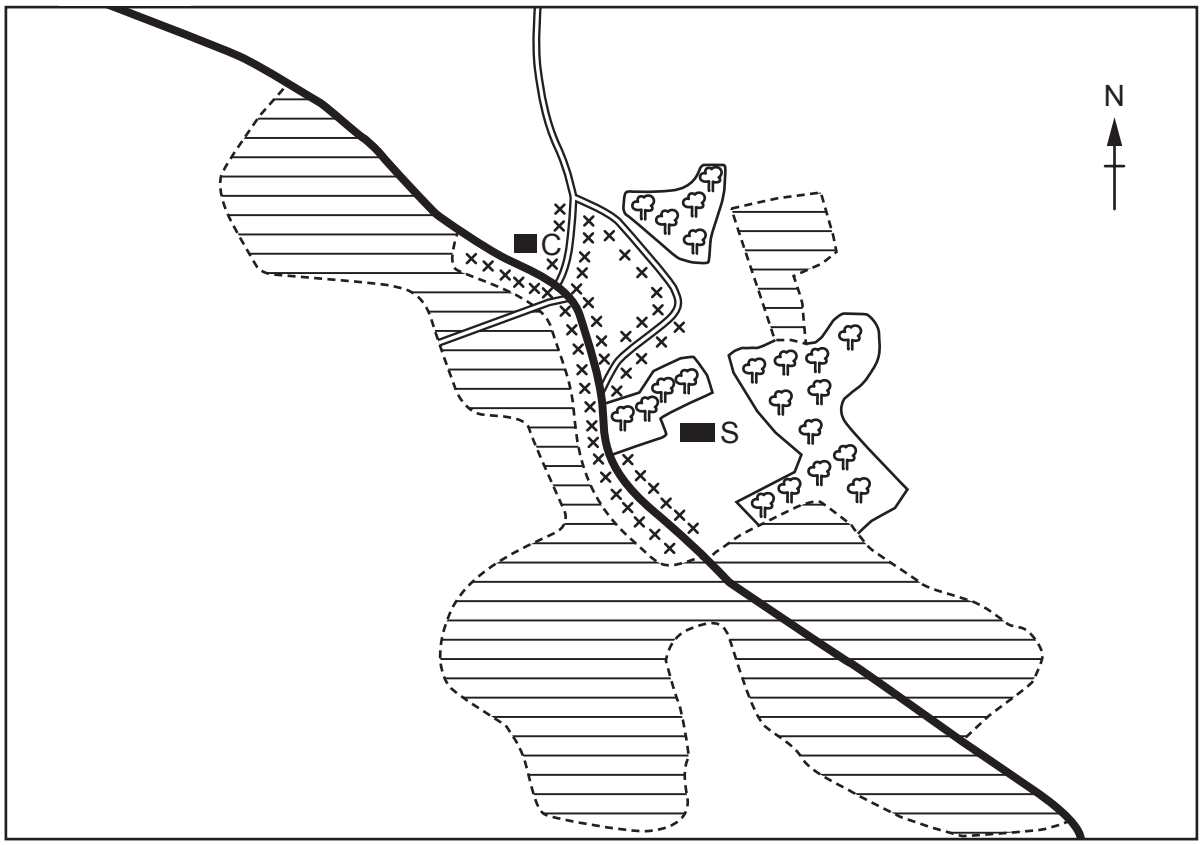
Fig. 1.7 for Question 1

A groyne



Fig. 2.1 for Question 2

Map of the settlement



Key

main road

other roads

×××× original village

areas of housing built since 1980

woodland

C church

S secondary school

0 500

m

Table 2.1 for Question 2

Population growth in the settlement

year	population
1961	2890
1971	3600
1981	4420
1991	6090
2001	7650
2011	8970
2017	**9400**

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Fig. 2.3 for Question 2

Resident questionnaire

I am doing this questionnaire as part of my Geography coursework. Please answer the following questions.

1. How long have you lived in the town?

..... years

2. How far do you travel to your workplace?

..... km

3. What is your main reason for living in the town?

.....

Thank you

Table 2.3 for Question 2

Answers to Question 1
How long have you lived in the town?

number of years	percentage of answers
0 to 9	11
10 to 19	36
20 to 29	28
30 to 39	**19**
40 and over	**6**

Table 2.4 for Question 2

Answers to Question 2
How far do you travel to your workplace?

distance (km)	percentage of answers
0 to 10	21
11 to 20	22
21 to 30	**27**
31 to 40	20
41 to 50	7
more than 50	3

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