# Cambridge IGCSE<sup>™</sup>

GEOGRAPHY 0460/42

Paper 4 Alternative to Coursework

October/November 2021

INSERT 1 hour 30 minutes

# INFORMATION • This insert of

- 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

### Number of international tourists visiting Malta

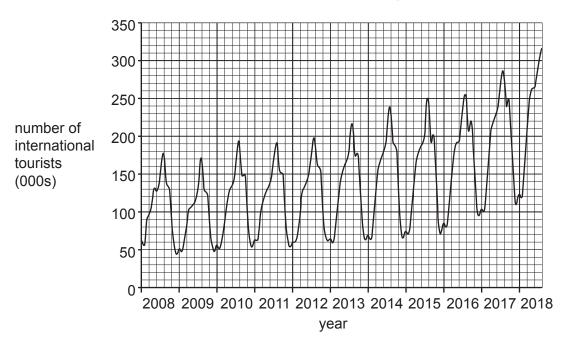
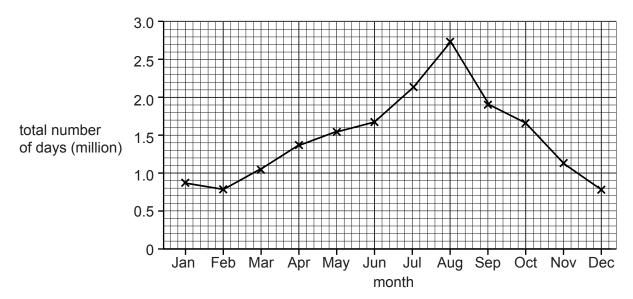


Fig. 1.2 for Question 1

### Total number of days which tourists stayed in Malta in 2017



# Fig. 1.3 for Question 1

## **Tourism questionnaire**

I'm a student at college. I am doing a survey of tourism in Malta.					
1. Are you a tourist? Yes No					
(If the answer is 'no', end the interview)					
2. Which country have you come from?					
3. What is the main reason for your visit to Malta?					
4. Which <b>one</b> of the following most influenced your choice of Malta for your holiday?					
Holiday brochure					
Internet website					
Magazine or newspaper advert					
Recommendation from friend or relative					
Tourist guide book					
Travel agent					
Thank you for your time					

Table 1.1 for Question 1

Answers to Question 2 in the questionnaire

country	number of tourists
Austria	2
Belgium	7
France	17
Germany	19
Hungary	2
Ireland	4
Italy	33
Netherlands	6
Poland	8
Spain	6
Sweden	6
Switzerland	4
UK	51
Other	35
Total	200

Table 1.2 for Question 1

Answers to Question 3 in the questionnaire

roopen	tourists (%)			
reason	France	Germany	Italy	UK
enjoyed a previous visit	14	17	13	16
history and culture of the island	23	22	27	20
it is a new holiday destination to visit	15	14	13	11
sunny weather	41	43	41	45
visiting friends or relatives	5	2	5	6
water sports	2	2	1	2

## Table 1.3 for Question 1

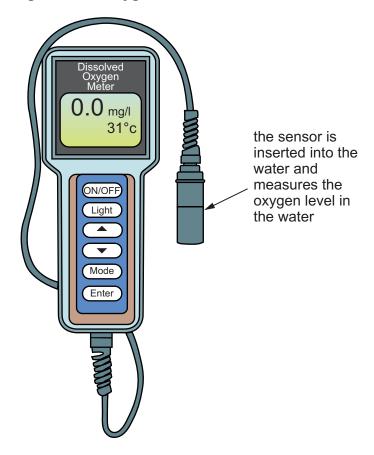
## Answers to Question 4 in the questionnaire

method	number of answers
holiday brochure	9
internet website	105
magazine or newspaper advert	33
recommendation from friend or relative	30
tourist guide book	5
travel agent	18

Fig. 2.1 for Question 2

## Measuring oxygen level of water

## Diagram of an oxygen meter



Student using the oxygen meter

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Table 2.1 for Question 2

Results of oxygen level measurements

site	oxygen level (mg/l)		
Site	2015	2018	
1	9.1	9.8	
2	8.1	9.7	
3	8.6	9.8	
4	8.5	9.2	
5	7.5	9.3	

mg/I = milligrams of oxygen per litre of water

Fig. 2.3 for Question 2

#### Fieldwork to collect Biotic Index samples

Many animals which live on the river bed cannot survive where the river is polluted. The location of different animal species in the river tells you about the quality of the water. These are called indicator species.

Put the net on the bottom of the stream and stand upstream of the net. To find these animal species disturb the river bed for two minutes by gently kicking it to dislodge the stones (this is called kick-sampling). The animals are washed into the net where they can be caught. Empty the net into a tray in order to identify the species. Put the animals back in the river after they have been identified.



#### Fig. 2.4 for Question 2

#### **Biotic Index Recording Sheet**

#### **Trade River site number 2**

Group 1: These do not live in polluted water. Circle each animal found.







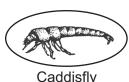


No. of group 1 animals circled:

1

Group Value = 4

Group 2: These can live in water which is slightly polluted. Circle each animal found.





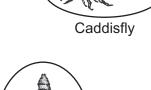


Penny



No. of group 2 animals circled:







Freshwater Mussel







Group Value = 3

Group 3: These can tolerate more polluted water. Circle each animal found.



Black Fly

Crane Fly







No. of group 3 animals circled:

1

Group Value = 2

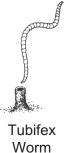
Group 4: These can live in polluted water. Circle each animal found.











No. of group 4 animals circled:

1

Group Value = 1

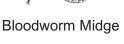
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Table 2.2 for Question 2

Biotic Index score for the five fieldwork sites measured in 2015 and 2018

site	Biotic Inc	ex score
Site	2015	2018
1	2.0	3.0
2	2.8	2.8
3	2.2	3.3
4	2.6	2.8
5	3.0	2.8

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