

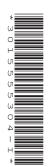
Cambridge International Examinations Cambridge International General Certificate of Secondary Education

GEOGRAPHY

Paper 4 Alternative to Coursework INSERT

0460/43 May/June 2018

1 hour 30 minutes



READ THESE INSTRUCTIONS FIRST

This Insert contains Figs. 1.1 and 1.6 and Table 1.1 for Question 1, and Figs. 2.1, 2.4 and 2.8 and Tables 2.2 and 2.3 for Question 2.

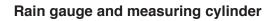
The Insert is **not** required by the Examiner.

This syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of 8 printed pages and 4 blank pages.



Fig. 1.1 for Question 1



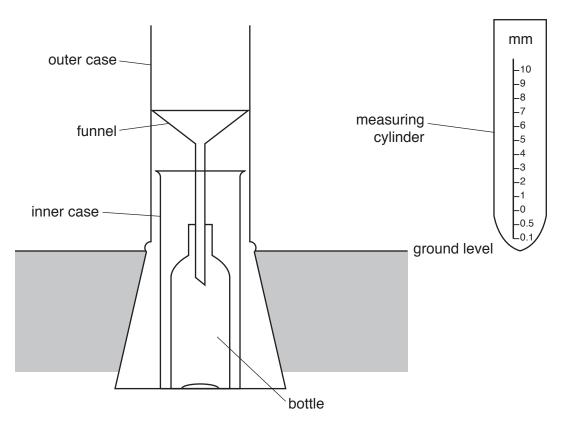


Table 1.1 for Question 1

Atmospheric pressure data collected by students in February of the current year and from February of the previous year

Data collected by students in February						
Date	Atmospheric pressure (mb)					
1st	1003					
2nd	1003					
3rd	985					
4th	977					
5th	980					
6th	990					
7th	987					
8th	982					
9th	990					
10th	990					
11th	987					
12th	989					
13th	976					
14th	984					
15th	1007					
16th	996					
17th	1008					
18th	1012					
19th	999					
20th	1003					
21st	1008					
22nd	1008					
23rd	993					
24th	997					
25th	992					
26th	995					
27th	994					
28th	988					

Data collected in February of the previous year					
Date	Atmospheric pressure (mb)				
1st	1000				
2nd	1007				
3rd	1006				
4th	1015				
5th	1026				
6th	1031				
7th	1036				
8th	1040				
9th	1035				
10th	1034				
11th	1003				
12th	1021				
13th	1025				
14th	1000				
15th	1013				
16th	1013				
17th	1036				
18th	1022				
19th	1039				
20th	1008				
21st	1001				
22nd	1000				
23rd	997				
24th	1002				
25th	1013				
26th	1010				
27th	1020				
28th	1010				



Results of measurements of wind direction and average daily temperature

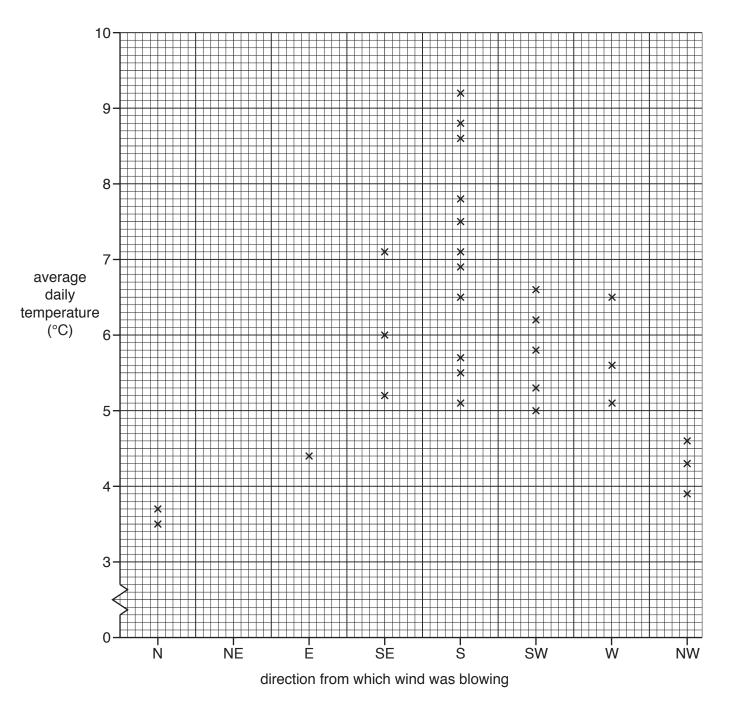


Fig. 2.1 for Question 2

Extract from a student's notebook

Measuring the pH of water

pH is a measure of the acidity of water. The pH score decreases as water becomes more acidic. More acidic water is more likely to be polluted.

- 1 Collect a sample of water in a clean container.
- 2 Put the probe of the pH meter into the water.
- 3 Read the digital display.
- 4 Take three samples of water and test each one.



Measuring the clarity of water

This is a test to measure how clear the water is.

- 1 Put the measuring tape attached to the disk into the water.
- 2 Slowly lower the measuring tape into the water.
- 3 When the disk can no longer be seen record the measurement on the tape at the water surface. This shows how deep the disk is in the water.
- 4 Repeat the test three times and record each result.



Table 2.2 for Question 2

Results of pH measurements

	pH reading						
	test 1	test 2	test 3	Average			
site 1	6.1	6.0	6.2	6.1			
site 2	5.8	5.6	5.9	5.8			
site 3	5.4	5.5	5.5	5.5			

Table 2.3 for Question 2

Results of water clarity measurements

	depth of clear water (cm)						
	test 1	test 2	test 3	Average			
site 1	39	38	38	38.3			
site 2	33	34	38	35.0			
site 3	13	19	18	16.7			

7

Fig. 2.4 for Question 2

Environmental quality recording sheet

	Positive description	+2	+1	0	-1	-2	Negative description
Buildings	in good condition						in poor condition
	well-designed / attractive						poorly designed / ugly
	well maintained						poorly maintained
	no vandalism or graffiti						extensive vandalism or graffiti
Open space	large private gardens						no private gardens
	lots of trees, bushes or grass						no trees, bushes or grass
	parks are well maintained						parks are poorly maintained
	no litter and debris						much litter and debris
Traffic	no traffic congestion						roads are badly congested
	little traffic noise						very noisy from traffic
	no air pollution from traffic fumes						air is badly polluted from traffic fumes
	safe for people to cross roads						dangerous for people to cross roads
General	roads and pavements are well maintained						roads and pavements are poorly maintained
	few road signs or advertising boards						lots of road signs and advertising boards
	lakes and streams are clean						lakes and streams are dirty
	lots of insects and wildlife can be seen						no evidence of insects and wildlife

Fig. 2.8 for Question 2

Completed environmental quality recording sheet for undeveloped site

	Positive description	+2	+1	0	-1	-2	Negative description
Buildings	in good condition	NO				in poor condition	
	well-designed / attractive					poorly designed / ugly	
	well maintained		BUILDINGS			poorly maintained	
	no vandalism or graffiti					extensive vandalism or graffiti	
Open space	large private gardens			1			no private gardens
	lots of trees, bushes or grass	1					no trees, bushes or grass
	parks are well maintained	1					parks are poorly maintained
	no litter and debris	1					much litter and debris
Traffic	no traffic congestion	1					roads are badly congested
	little traffic noise	1					very noisy from traffic
	no air pollution from traffic fumes	1					air is badly polluted from traffic fumes
	safe for people to cross roads	1					dangerous for people to cross roads
General	roads and pavements are well maintained			1			roads and pavements are poorly maintained
	few road signs or advertising boards	1					lots of road signs and advertising boards
	lakes and streams are clean	1					lakes and streams are dirty
	lots of insects and wildlife can be seen	1					no evidence of insects and wildlife

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.