



Cambridge IGCSE™

GEOGRAPHY

0460/41

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 **12** pages. Any blank pages are indicated.

Fig. 1.1 for Question 1

Bangkok Mass Transit System



Table 1.1 for Question 1

Number of shops and services counted at each site

	fieldwork site	high-order shops and services	middle-order shops and services	low-order shops and services	total shops and services
increasing distance from BTS station ↓	1	7	6	9	22
	2	4	1	5	10
	3	2	2	6	10
	4	11	8	15	34
	5	6	28	3	37
	6	15	21	4	40
	7	2	2	8	12
	8	11	8	10	29

Fig. 1.4 for Question 1

Students' bi-polar survey recording sheet

Site number:	1	2	3	4	5	6	7	8
feature	negative description		−2	−1	0	+1	+2	positive description
condition of buildings	poorly maintained							well maintained
pavements and footpaths	poorly maintained							well maintained
litter	much litter							no litter
graffiti	much graffiti							no graffiti

Table 1.2 for Question 1

Results of students' bi-polar survey

	site number							
	increasing distance from BTS station →							
feature	1	2	3	4	5	6	7	8
condition of buildings	0	-1	+1	-1	+1	+1	+2	+2
pavements and footpaths	+1	-2	0	-1	0	0	+2	+2
litter	-1	-1	-1	-2	0	+1	+1	+2
graffiti	-2	-1	-2	-1	+1	0	+1	+2
total score	-2	-5	-2	-5	+2	+2	+6	+8

Fig. 1.6 for Question 1

Extract from a student's fieldwork notebook

How to measure the carbon dioxide (CO₂) level in the air

- 1 Fill a small bottle with water at school.
- 2 When you get to your fieldwork site empty the water out of the bottle.
- 3 Put the empty bottle on the ground and leave it for 30 seconds.
- 4 Put the top back on the bottle to trap the air inside it.
- 5 Back at school put a CO₂ sensor in the bottle to measure the CO₂ reading in the air.

Table 1.3 for Question 1

Results of students' measurements of noise and air pollution

	site number							
	increasing distance from BTS station 							
factor	1	2	3	4	5	6	7	8
noise level (db)	90	88	80	87	77	78	77	67
air pollution (CO ₂ ppm)	314	289	285	399	365	398	432	388

db = decibels

ppm = parts per million

Fig. 2.1 for Question 2

Maximum-minimum thermometer

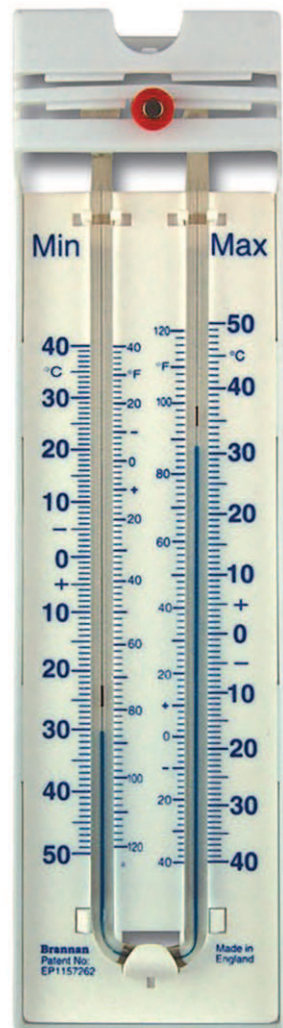


Fig. 2.2 for Question 2

Sunshine recording cards

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Table 2.2 for Question 2

Measurements of daily maximum temperatures and hours of sunshine

date in September	maximum temperature (°C)	number of hours of sunshine
2	24	0.1
3	24	5.8
4	25	3.0
5	23	4.1
6	22	2.5
7	21	6.3
8	20	1.9
9	22	3.0
10	23	3.8
11	24	4.1
12	26	4.5
13	19	0
14	22	6.3
15	19	1.8
16	18	6.8
17	17	11.0
18	18	5.7
19	19	2.2
20	20	4.8
21	21	2.9
22	21	6.9
23	19	1.5
24	19	7.1
25	17	6.4
26	16	3.8
27	15	2.7
28	16	5.6
29	17	5.7
30	17	0.2

Fig. 2.4 for Question 2

A barometer

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Table 2.3 for Question 2

Measurements of atmospheric pressure and daily maximum temperature

date in September	atmospheric pressure (mb)	maximum temperature (°C)
2	1012	24
3	1009	24
4	1014	25
5	1013	23
6	1012	22
7	1008	21
8	1004	20
9	1006	22
10	1015	23
11	1018	24
12	1019	26
13	1011	19
14	1012	22
15	1013	19
16	1016	18
17	1014	17
18	1018	18
19	1019	19
20	1020	20
21	1021	21
22	1020	21
23	1015	19
24	1017	19
25	1012	17
26	1003	16
27	1002	15
28	1003	16
29	1004	17
30	1005	17

Fig. 2.7 for Question 2

A digital weather station



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