

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

## GEOGRAPHY

Paper 4 Alternative to Coursework SPECIMEN MARK SCHEME 0460/04 For Examination from 2016

1 hour 30 minutes

## **MAXIMUM MARK: 60**

This document consists of 4 printed pages.



				4	
			2	NN. Day	
1	• •	eas	d would affect temperature; ier to see effects of building/ground surface; fall would affect relative humidity	2 @ 1 mark	bridge
	(b)	(i)	Away from the influence of buildings; no trees nearby to create shade; on grass so this will not absorb heat/alter temperature.	2 @ 1 mark	[2]
		(ii)	Max. temperature 12–13 °C inclusive; min. temperature 1–2 °C inclusive; present temperature 3–3.2 °C inclusive.	3 @ 1 mark	[3]
	(c)	(i)	Quick/instant reading Accurate to a decimal point		[1]
		(ii)	Unsure if same location for each reading; height at waist will vary between people; student error in timing; 3 days may not be long enough for reliable figure; effect of body heat on reading.	1 @ 1 mark	[1]
	(	(iii)	Temperature will change during the day; shows the range of temperature during the day.	1 @ 1 mark	[1]
		day mor	<ul> <li>1 cold morning but warm afternoon, day 2 colder, day 3 similar to 2;</li> <li>nings always colder than afternoons.</li> <li>of paired statistics to show change to 2 marks max.</li> </ul>		[4]
		056	of paired statistics to show change to 2 marks max.		[4]
	(e)	(i)	G: 5.4° at 9 m, H: 5.8° at 2 m.	2 @ 1 mark	[2]
		(ii)	Best fit line straight or curved;	1 @ 1 mark	[1]
	(	(iii)	Hypothesis is true (1 mark reserve) Negative relationship on graph/temperature decreases as distance increases Anomaly at C – highest temperature but not nearest to building Use of paired statistics to show change to 1 mark maximum		[4]
	(	(iv)	Buildings/tarmac/concrete absorb heat from sun or internal heating system Buildings radiate heat around them Aspect/south facing/facing sun Funnelling effect of buildings		101
			Shade from sun by trees/buildings	2 @ 1 mark	[2]

			32	
		3	N.D.	
	Site = 7 Cre not	es with plants = $A + B + F = 75 + 77 + 73 = 225/3 = 75\%$ . es without plants = $C + D + E + G + H = 76 + 75 + 73 + 75 + 77 = 376/5$ 5.25%. edit "No" or negative statement. a higher relative humidity. nark for calculations, 1 mark for decision	aCan.	bidge.com
	(g) (i)			[2]
	(ii)	Collect data on more than three days; collect data more than twice a day; collect data in other months/other seasons; students check each other's readings;		
		Same person takes readings to reduce height difference.	3 @ 1 mark	[3]
			[Total: 30 ma	rks]
2	(a) (i)	Secondary		[1]
	(ii)	Data collected by students/oneself		[1]
	(iii)	Questionnaire/pedestrian count/traffic count/river depth measurements	5	[1]
	(b) (i)	Pie chart completion Dividing line = 1 mark, shading = 1 mark		[2]
	(ii)	Most visitors come by car More come by bus or coach than by train None come by bike		[2]
	(iii)	Car gives independence/flexibility to travel Train service may be infrequent		[1]
	(iv)	Completion of 'very difficult' = 3 symbols		[1]
	(c) (i)	Completion of bar graph using No. column – walking = 15 and other = 9 Do not credit % figures	d 2 @ 1 mark	[2]
	(ii)	Hypothesis is true/partially true (1 mark reserve) Physical activities/cycling is more popular with under 40 age groups Walking is most popular with 20–60 age groups Scenery is most popular with over 60 age group Wildlife is popular with all age groups		
		Credit paired use of statistics to show differences to 2 marks max		[4]
	(iii)	More visitors skiing in winter Fewer come for other activities in winter – cycling/walking		[2]

	4	Pap
(iv)	Length of stay: If tourists stay longer in the village they spend more money Demand for different services such as restaurants if people stay more than 1 day	Papacambridge.com
	Accommodation: If most people visit for 1 day less accommodation is needed More demand for hotels creates most jobs/most income Youth hostel/campsite may create more demand for bars/fast-food	Com
	1 mark reserve for length of stay and accommodation	[3]
(v)	Divided bar graph completion dividing line correct = 1 mark, shading = 1 mark	[2]
Re 409	pothesis is true/generally true (1 mark reserve) sidents' views on effects of tourism are generally positive % of residents say there are no main problems edit paired use of statistics to support evidence to 2 marks max	[4]
Su Tin Dif Dif Me	uipment – recording sheet, watch ggested locations of traffic survey nes of traffic survey during day ferent days of week – weekday and weekend ferent seasons to compare results thodology – tally system liability – e.g. all surveys done at same time	[4]

[Total: 30 marks]