**CAMBRIDGE INTERNATIONAL EXAMINATIONS** International General Certificate of Secondary Education

## Www.strapapers.com MARK SCHEME for the October/November 2012 series

## 0460 GEOGRAPHY

0460/43

Paper 4 (Alternative to Coursework), maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

Page 2	Mark Scheme	Syllabus	5. V	
	IGCSE – October/November 2012	0460	Da	
(a) (i)	Clear of buildings / away from shelter / open ground Clear of trees / away from interception Clear of people or animals / away from interference On grass not concrete / non-splash surface On flat land	Syllabus 0460	2 @ 1	nbrins [2]
(ii)	Container stood firmly in ground / above ground / on gro Rainfall / water collects in measuring cylinder / rains into Read water level in measuring cylinder / read at eye le the gauge Reading taken at same time every day / specific time pe Empty water out of container Add any water collected in overflow cylinder	ound o cylinder evel / read off the sca		
(iii)	On the top of a building Away from obstruction / exposed to wind		2 @ 1	[2]
(iv)	Arrow turns / spins in the wind The arrow points the direction the wind is coming from The letters show direction / reference to compass direct	tion		[3]
(b) (i)	4.8 (mm)			[1]
(ii)	Primary data: using a barometer & measuring the speed Secondary data: researching on the internet & reading 4 correct = 2 marks, 2 or 3 correct = 1 mark, 1 correct =	a newspaper report		[2]
(iii)	Measurements made at same time of day No measurements are missing / all the days / everyday Measurements done with accurate or advanced instrur by computer Experienced or professional people / student error		omatical	ily oi
	Answer could focus on weaknesses of student measuring	ng	2@1	[2]
(iv)	Plot 2mm at coastguard station at day 2			[1]
(v)	Average rainfall is higher at coastguard station / lower a	it school		
	Paired data for 2 marks e.g. average daily rainfall 4.8 mm at school, 6.1 mm at c e.g. days with 8 mm rainfall or more (2/10 at school, 6/1 e.g. up to 15 mm on one day at CG station, up to 12 mn No Hypothesis mark	6 at coastguard statio	,	[3]

Page 3	Mark Scheme	Syllabus Syllabus
	IGCSE – October/November 2012	0460
(c) (i)	Plot wind bars: SW = 4	Syllabus 0460
(ii)	Plot rainfall bar: 1 mark for scales (up to 5mm & 15 <sup>th</sup> );	
. ,	1 mark for bar = 4 mm;	
	1 mark for position in SE quadrant	
(iii)	School: Hypothesis is not true / incorrect $-1$ mark reset More rain on days when wind is from N/NW	
	If answer is Hypothesis is true / partially true = 0	9 reinfall is Frame or below wh
	Rainfall is more than 5mm when wind is from N/NW wind is from S/SW	& raintali is 5mm or below wr
	There is more total rainfall when the wind is from N/NV from S/SW (20 mm)	V (26 mm) than when the wind
	Coastguard station: hypothesis is true / correct /more rawind is from S/SW – 1 mark reserve	ain on days when
	If answer is Hypothesis is not true / partially true = 0 Rainfall is more than 5mm when wind is from S/SW a wind is from N/NW / NE / SE	& rainfall is 5mm or below wh
	There is more total rainfall when the wind is from S/SV from N/NW /NE / SE (22 mm)	V (76 mm) than when the wind
	1 mark for each hypothesis; 2 marks for supporting evid	lence
	ction of wind varies from day to day	
	e rain when winds blow from the sea	
	e winds from sea / south affect coastguard station	hille / reinchedeur
Sch	ool is sheltered from winds off the sea or from south by l	nilis / rainsnadow

School gets more rain when winds are from north Coastguard station is sheltered from north winds by hills / rainshadow

1 mark maximum for comparative location such as:CG station is nearer sea or CG station on coast & school inlandCG station is at sea level & school is 200m above SL or school is higher[3]

[Total: 30]

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Page 4	Mark Scheme	Syllabus	1.0	
	IGCSE – October/November 2012	0460	1Day	
(a) (i)	Look at what was for sale in the shops Language of shop signs / products Customers' language Ask / survey / questionnaire shop owners Ask / survey / questionnaire customers Appearance e.g. dress		3 @ 1	IS]
(ii)	To test methodology / find out if any problems / check sa Opportunity to change methodology / make improvement Gain confidence in doing fieldwork / practice / gain expert	ts	2 @ 1	[2]
(iii)	Draw divided bar to show nine tourist & six local shops 1 mark for dividing line, 1 mark for shading			
	If numbers are 'wrong way round' credit correct shading			[2]
(iv)	<u>3</u> × 100 = 27.3% (27.27) 11 1 mark for calculation, 1 mark for answer No need for percentage			[2]
(v)	Rank order: site $6 = \operatorname{rank} 2$ site $7 = \operatorname{rank} 4$ site $8 = \operatorname{rank} 5$ site $9 = \operatorname{rank} 3$ site $10 = \operatorname{rank} 11$			
(b) (i)	Total environmental score = 14			[1]
(ii)	Subjective / biased judgements /Surveys done by differe Survey will be done at different times / different days	nt people ge	t different result 2 @ 1	S
(iii)	Plot sites 4 (tourist shops = 50%, environmental score = and 7 (tourist shops = 66.7%, environmental score = 23)		graph 2@1	[2]
(iv)	Plot best fit line on scatter graph (curved or straight) Positive with 3 plots clear of line on each side			[1]
(v)	Graph shows a positive correlation / relationship betwee and environmental score As percentage of tourist shops increases so does environ No Hypothesis mark	-	-	nops [1]
(vi)	Environment of an area is improved to attract more touris maintain level of tourism or examples of how area is kep Poor environment will put off tourists / prevent them com	t clean		
	Tourist industry income can be used to improve environn			[2]

Page 5		Syllabus	2.
	IGCSE – October/November 2012	0460	Page -
c) (i)	Methodology such as: one person every two mine female – male / ask people at equal intervals	utes / every tenth perso	aba Cambrid
(ii)	Complete pie graph – division and shading for 1 mar	ĸ	
(iii)	Complete tally chart – all correct = 2 marks 3 or 4 correct = 1 mark		[2]
(iv)	Hypothesis is true / correct / partially true / tourism c – 1 mark reserve If answer Hypothesis is not true = 0 At 8/10 / most / majority sites more than 50% / question 2) Exceptions are sites 1 & 2 At two sites / at site 6 / at site 10 all residents answe	most / majority answe	
	Credit effects from Fig. 12 with supporting data (num 1 mark maximum e.g. Most sites have more than 5 tallies for job oppor At site 10 15/20 said more job opportunities		[4]

- Can buy necessities / luxuries or examples Can pay for education / health care / electricity / water supply / electricity [3]

[Total: 30]