

June 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0460/04

**Geography
Paper 4**



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Question 1

- (a) (i) I Ink will not be removed when raining
II allows accurate reading of rainfall/equal volume 2 @ 1 mark [2]
- (ii) Must be two different factors e.g.
Away from buildings/away from trees/ in an open area;
off the ground so no splash; 2 @ 1 mark [2]
away from people/not near where it can be knocked;
sunken in ground for stability; on flat land;
- (b) (i) Complete graph by marks at 12mm (airport) and 9mm
(school) on Fig. 2 2 @ 1 mark [2]
- (ii) Any two comments e.g. on rain days six were under
5mm; two days of higher rainfall; six days of no rainfall
recorded 2 @ 1 mark [2]
Credit only number of readings or when
- (iii) $49/14 = 3.5\text{mm}$ in Table 1 1 @ 1 mark [1]
- (iv) Must be comparative statements
e.g. less days with no rainfall at airport;
higher max rainfall recorded at airport; higher total; 2 @ 1 mark [2]
higher daily average rainfall at airport etc.
- (v) I Higher altitude brings more rainfall; explanation of
concept (e.g. cools, condense and rains) for each idea one
mark for simple
statement and second
mark for development
II closer to the sea increases rainfall; explanation of
concept (moist winds brought onshore and rising over
land) or explanation of rain shadow [4]
- (c) (i) pointer indicates the direction the wind is blowing
from; the plate aids the turning of the pointer 2 @ 1 mark [2]
- (ii) 3 days from north at school 3 @ 1 mark
1 for each correct
length
2 days from north at airport 1 for appropriate
width/overall
presentation [3]
- (d) Suggestion SW or S; 4 @ 1 mark
Using the data as evidence e.g. Day 7 and 8 have higher
rainfall at both locations from S/SW winds etc. max 1 no data
res 1 suggestion [4]
- (e) e.g. 6 @ 1 mark
First part of hypothesis correct; Rainfall closer to the sea is
greater; airport has higher total rainfall; 49 compared to 30;
Hypothesis of winds blowing from S is partly correct; res 1 for hypothesis
S and SW winds produce rainfall days e.g. days 7/8; res 1 for evaluation
Standardised rain gauge v home made rain gauge; res 1 for student error
Data only collected over 14 days/may not be representative
Students may have misread wind direction; winds may have
changed during day; Day 11 at school error? Max 4 if no data [6]

Total 30 Marks

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Question 2

- (a) (i) no age/gender bias; representative sample 1 @ 1 mark [1]
- (ii) not because it is 'random' or 'systematic' on own extra information may help analysis; maybe different results if repeated; number of people may change during the day; type of people may change during day accept examples if explained 2 @ 1 mark [2]
- (b) (i) area around the park; where people live who visit the park 2 @ 1 mark [2]
- not distance as = range*
- (ii) people will under estimate/overestimate; time will vary with mode of transport/traffic congestion; no idea of direction/location; 1 @ 1 mark [1]
- (iii) "Where do you live?" or equivalent wording 1 @ 1 mark [1]
- (c) (i) On Fig. 5 similar wording to:- "How did you travel to the park?"
- | | |
|-------|--|
| CAR | |
| BUS | |
| WALK | |
| TRAIN | |
- 1 mark for question
1 mark for transport
1 mark for layout [3]
- (ii) e.g. If most people walked then smaller S.of I than if by public transport etc. 2 @ 1 mark credit development [2]
- (d) (i) As overlay of circle
 $25\% = 90^\circ$ $60\% = 216^\circ$ $15\% = 54^\circ$
3 correct angles
1 res title
1 res key
1 res use of key [6]
- (ii) e.g. most people stayed 3 - 6 hours; Only 15%/fewer people stayed over 6 hours etc. 2 @ 1 mark [2]
- (iii) e.g. Longer stay increases impact; longer stay increases litter; more trampling; more noise etc *not just 'pollution'*
Only credit environmental impact 4 @ 1 mark credit dev of point up to 2 marks [4]
- (e) (i) e.g. Toilets very good facility; Information about the area poor; most people were satisfied with the facilities etc. 4 @ 1 mark Either general or specific comment list = no marks [4]
- (ii) Put up more footpath signs; include more information boards; 2 @ 1 mark [2]
- Credit only realistic and specific suggestions

Total 30 marks