MARK SCHEME for the October/November 2008 question paper

0460 GEOGRAPHY

0460/04   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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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1 (a) Cheap, frequently, work, open (1/2 correct =1; 3/4 correct = 2)   2 @ 1 mark   [2]

(b) (i) 'How did you travel here?/What mode of transport did you use?   3 @ 1 mark   [3]
Layout in boxes of different transport e.g. car, bus, walk
1 = Question (Not essential for expression to be in the *form* of a question),
1 = Choices (3 relevant exc. other),
1 for Layout (Boxes/grids or instruction that works e.g. circle)

(ii) Regular sampling/equally spaced sampling/e.g. every fifth person;   1 @ 1 mark   [1]
ref. to "Order" must be qualified.

(iii) Advantages e.g. not biased/fair test (1); easy/simple/faster (1)   1 @ 2 marks   [2]

(c) Complete proportional bar graph at 20%, 31% (51%), 17% (68%)   4 @1 mark   [4]
and 32% with correct key.
Mark 1 per line then 1 for correct key.

(d) (i) 2.2/2.3 km   1 @ 1 mark   [1]

(ii) Bicycle – most within 0.5km/all within 1.5km/close to market hall   4 @1 mark   [4]
Bus – in lines away from market hall/grouped/clustered/certain
directions/up to 2.2km
Car – from all directions/up to 2.2/2.3km away/most 0.5/2km
Walking – Close to market hall/most within 0.5km/up to 1km
References to 2.5km too vague. Distance or pattern OK.

(iii) Any sensible comment related to pattern of transport   2 @ 1 mark   [2]
e.g. people not prepared to walk/bike far/not far as uses up
energy/walking is free/no parking fines; bus in lines due to
routes/bus routes to where non-drivers live; cars more flexible
means of transport
Maximum of 1 per means of transport.

(e) (i) Sketch line to include all outer most points (can join up) and inwards   1 @ 1 mark   [1]
at western side to at least 4km ring.

(ii) Explain fully needs more than list; allow (1 + 1) for development.   4 @ 1 mark   [4]
e.g. Higher land/mountain restricts access/no one lives there;
Lake/sea may be there.   Maximum 2
River may be there – hard to get over/access issues.   for simple list
Poor roads – take too long.
Another/cheaper sports centre is competition;
Poorer area so cannot afford to travel/pay for sports.

(f) <u>Hypothesis</u> – both are correct/partially correct 1   6 @ 1 mark   [6]
<u>Aim</u> – Sports Centre has greater range or Sports Centre has larger
sphere of influence; 1.
<u>Statements</u> that support conclusion 2 maximum   Maximum 4 if
<u>Data</u> that support conclusion 2 maximum   no data
<u>If use comparative data, both figures must be correct for 1 data</u>
<u>mark.</u>

2 (a) (i) See through/transparent; located on post not the ground; secure not   1 @ 1 mark   [1]
easily knocked over; measurements on jar; not cylindrical; wider
top; no funnel. <u>Accept reverse.</u>

   (ii) 2,1,4,3   [2]
(1/2 correct = 1; 3/4 correct = 2)

  (iii) Bar graph/histogram (1); dates and rainfall (1); x/y could be either in   2 @ 1 mark   [2]
latter e.g. horizontal bar graph.

(b) <u>Arrow</u> head: shows the direction <u>from</u> which the wind is blowing   4 @1 mark   [4]
<u>Paddle</u>: Larger surface area to push the arrow/catch the wind
<u>Compass points</u>: orientation of the wind vane/all 4 points/indicates
the direction
<u>Fixed on roof</u>: not obstructed by building/secure/not
sheltered/exposed/in open air.

(c) <u>Ideas should include detail of relief rainfall</u>   4 @1 mark   [4]
Water evaporated from sea/moist winds; winds from west travel
over sea; air forced to rise/air rises; air cools; air condenses;   Maximum 2 if
relief/orographic rainfall   no relief
                                                       reference

(d) (i) Correct length of bars at 2 for E and 1 for N   2 @ 1 mark   [2]

   (ii) Most common/most frequent direction of wind.   1 @ 1 mark   [1]

  (iii) Lack of winds from NW/NE; equal days from E/SE; more days from   3 @ 1 mark   [3]
W/SW; more from S than N; more from W than E; most from SW
OK. <u>Must judge or compare.</u>

(e) (i) Correct plotting of 1,3,4,5 on the SW line   [2]
(1/2 correct = 1 3/4 correct = 2)

   (ii) <u>Top box</u> – anomaly/unusual/odd reading/student error/"only" once.   3 @ 1 mark   [3]
<u>Side box</u> – The highest rainfall/westerly wind brings rain/ in varying
amounts of rain   None if just
<u>Bottom box</u> – No rain from these directions   list days.

  (iii) Yes   1 @ 1 mark   [1]

(f) Longer time of investigation; twice each day; different   5 @ 1 mark   [5]
season/month; measure wind speed; different instruments;
traditional (accept "proper") rain gauge; compare to local weather
station/other school/sites; more sites

Credit mention of more reliable/more representative as
development marks if they explain how their suggestions do this.