

ADVANCED SUBSIDIARY (AS) General Certificate of Education 2009

71 Candidate Num

Geography

Assessment Unit AS 3

assessing

Module 3: Techniques in Geography

[ASG31]

FRIDAY 5 JUNE, MORNING



TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper. Answer **both** questions.

At the conclusion of this examination attach your fieldwork report and table of data securely to this paper using the treasury tag supplied.

There are two pages at the back of this question and answer booklet for use as continuation sheets as required.

You are provided with an OS map extract for use with question **2(b)**. **Do not write your answers on this insert.**

INFORMATION FOR CANDIDATES

The total mark for this paper is 60.

Quality of written communication will be assessed in **all** questions. Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

For Examiner's use only					
Question Number	Marks				
Report					
Table					
1					
2					

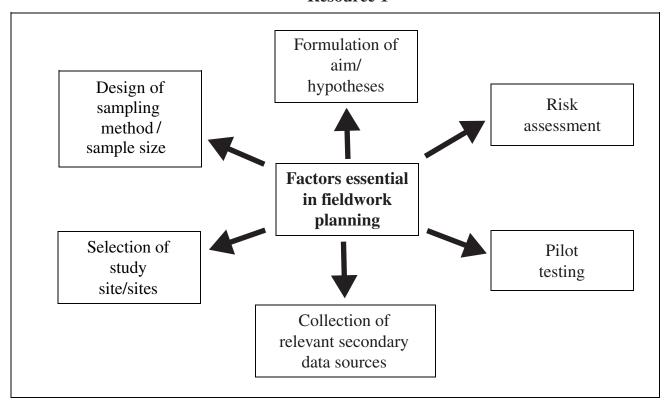
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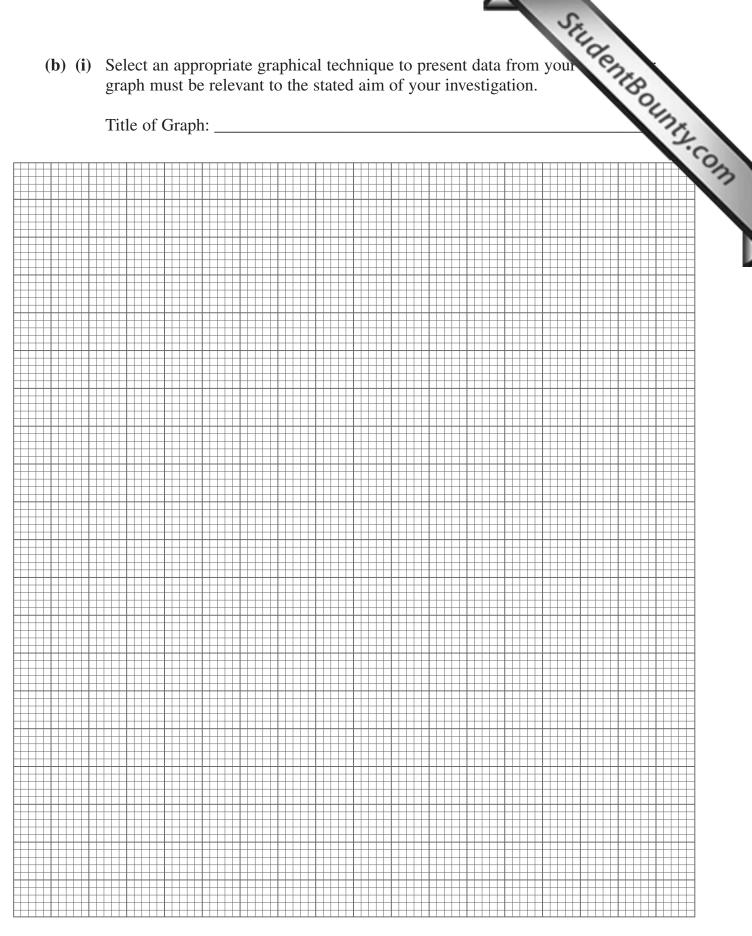
At the end of the examination these should be attached securely to this paper using the treasury tag supplied.

Student Bounty.com 1 (a) Select two factors from Resource 1 below and explain their importance in your fieldwork planning.

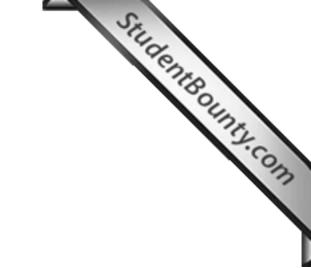
Resource 1



	LAGIIIII	ici Ciliy
	Marks	Remark
Factor 1:		
ractor 1.		
[3]		



(d)	Explain, with reference to your fieldwork, why evaluation is an essential part of the investigation process.	r Only mark
		CY.COM
	[3]	-



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(Questions continue overleaf)

(a) Study Resource 2A which relates to an investigation of altitude and me 2 temperature for 20 weather stations in North America. Resource 2B is a more America which illustrates the location of these selected weather stations.

Resource 2A

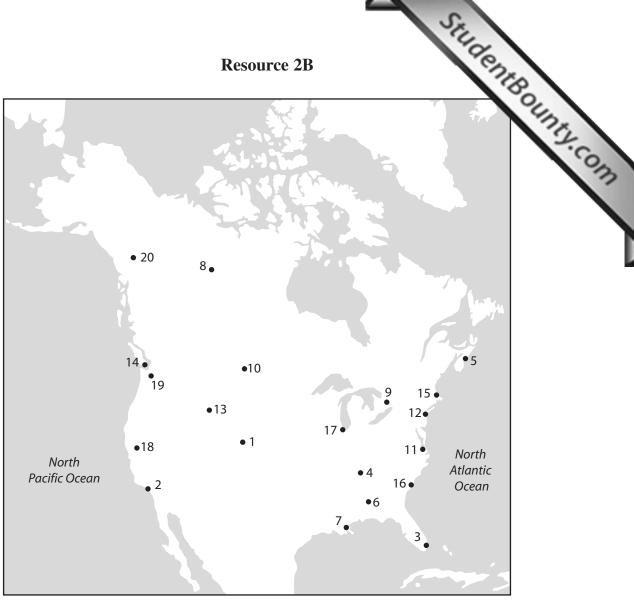
	esource 2A which relates to an investigation of altitude and measure for 20 weather stations in North America. Resource 2B is a many which illustrates the location of these selected weather stations. Resource 2A Weather X Rank Mean Annual Rank					
Weather Station	X Altitude (m)	Rank X	Y Mean Annual Temperature °C	Rank Y	d	\mathbf{d}^2
1	1872	2	6.7	15.5	-13.5	182.25
2	95	10	16.7	5	5	25
3	8	17	23.9	1	16	256
4	167	7	15	8	-1	1
5	30	15	6.7	15.5	-0.5	0.25
6	61	12	18.3	4	8	64
7	2	20	20.6	2	18	324
8	200	6	-5.6	20	-14	196
9	116	8	7.2	14	-6	36
10	575	4	1.1	18	-14	196
11	3	18.5	15.6	6.5		
12	96	9	8.3	13	-4	16
13	1903	1	3.3	17	-16	256
14	70	11	10	11	0	0
15	38	13.5	10	11	2.5	6.25
16	3	18.5	18.9	3	15.5	240.25
17	251	5	10	11	-6	36
18	21	16	15.6	6.5	9.5	90.25
19	38	13.5	11.1	9	4.5	20.25
20	698	3	-0.6	19	-16	256

$$\sum d^2 = 2345.5$$

$$r_s = -0.76$$

(i) Complete the table (**Resource 2A**) by inserting the missing values.

Examiner Only					
Remark					



W	eather Stations	(Key)		
1	Cheyenne	11	Norfolk	
2	Los Angeles	12	New York	
3	Miami	13	Yellowstone Park	
4	Nashville	14	Victoria	N
5	Halifax	15	Boston	A
6	Montgomery	16	Charleston	<u>T</u>
7	New Orleans	17	Chicago	
8	Yellowknife	18	Sacramento	ı
9	Toronto	19	Seattle	
10	Regina	20	Whitehorse	1000 km

Student Bounts Com Spearman's Rank Correlation Equation and Significance Charts

Formula:

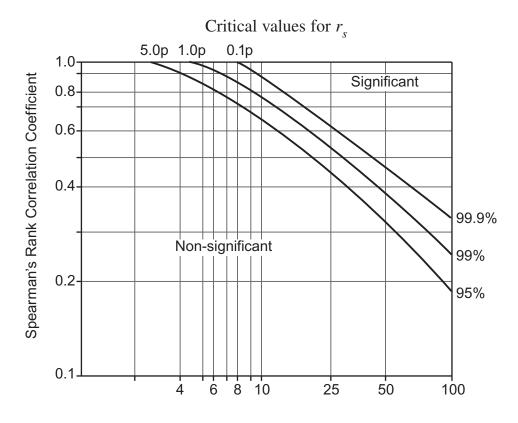
$$r_s = 1 - \left(\frac{6\Sigma d^2}{n^3 - n}\right)$$

where d = the difference in rank of the values of each matched pair

n = the number of ranked pairs

 Σ = the sum of

Spearman's Rank Correlation Significance Graph and Table



Degrees of freedom [Number of ranked pairs (n) - 2]

Critical values of Spearman's Rank Correlation Coefficient, r_s

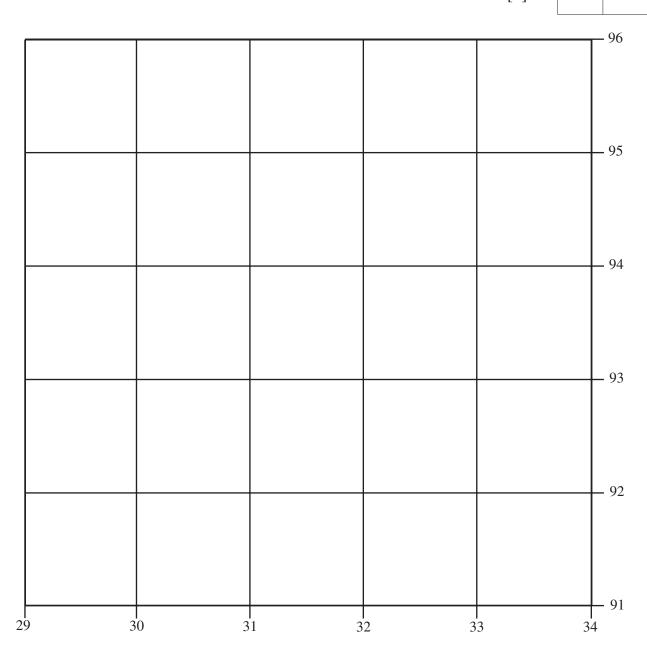
Significance level

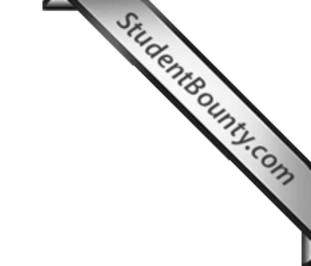
degrees of freedom	0.05 (5%)	0.01 (1%)	
4	0.88	1.00	
5	0.83	0.96	
6	0.80	0.91	
7	0.77	0.87	
8	0.72	0.84	
9	0.68	0.80	
10	0.64	0.77	
11	0.60	0.74	
12	0.57	0.71	
15	0.50	0.65	
18	0.49	0.60	
20	0.47	0.59	

Student Bounts, com (b) Use the Ordnance Survey map extract of North Yorkshire, **Resource 2D** (see insert sheet), to draw a sketch map representing the area between Eastings 29 and 34 and Northings 91 and 96 in the space below.

On your sketch map, illustrate and label only the following:

- The course of the River Swale
- Two named tributaries [2]
- The ox-bow lake [1]
- The built-up area of one named village [1]
- The A684 main road [1]



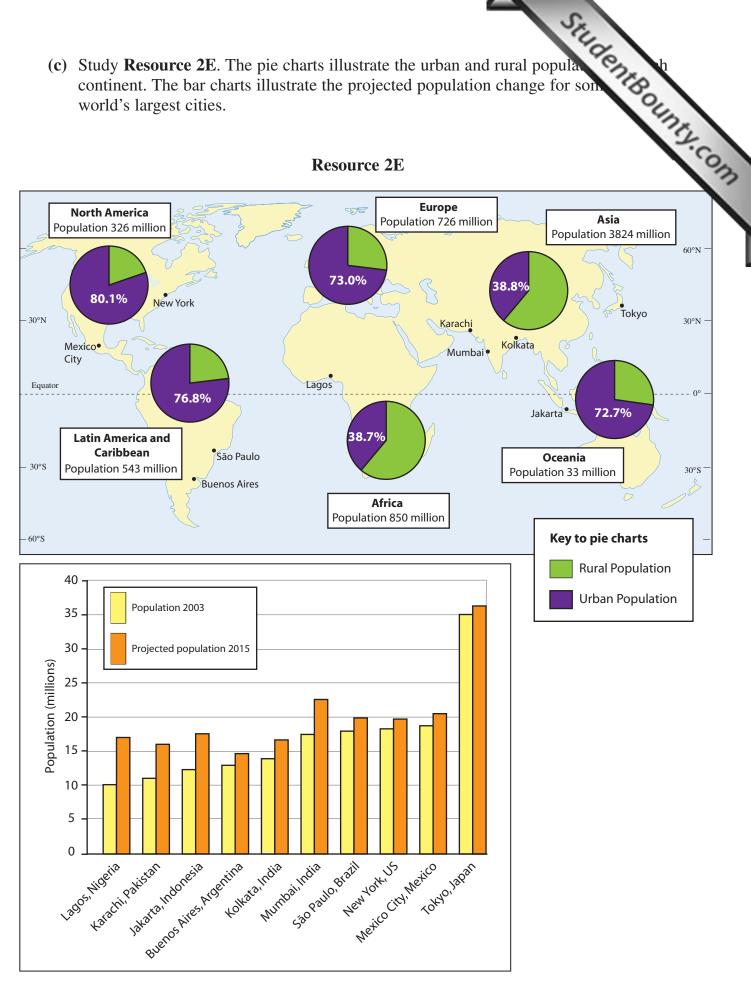


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(Questions continue overleaf)

(c) Study Resource 2E. The pie charts illustrate the urban and rural popular continent. The bar charts illustrate the projected population change for some world's largest cities.

Resource 2E



THIS IS THE END OF THE QUESTION PAPER

Reminder: when you have finished the examination attach your fieldwork report and table of data to this paper using the treasury tag supplied.

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