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Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2012

Geography

Assessment Unit AS 2

assessing

Human Geography

[AG121]

TUESDAY 19 JUNE, MORNING

AG121

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.
Section A: candidates must answer this section.
Section B: answer **all three** questions in this section.
Section C: answer **any two** questions from this section.
You should write your answers in the spaces provided in this question paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 90.
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
1	
2	
3	
4	
5	
6	
7	
Total Marks	

7302

Section A

Answer this section.

1 **(a)** Study **Resource 1A** showing the results of an investigation which measured river depth at 12 equal intervals across a meander on the channel of the River Glenelly (Co. Tyrone).
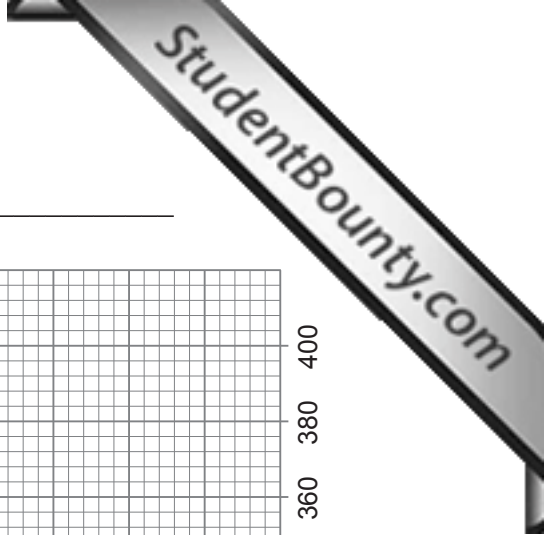
Resource 1A

Site	Distance from the inside bank of the meander bend (cm)	River depth (cm)
1	0	8
2	35	10
3	70	23
4	105	31
5	140	52
6	175	56
7	210	103
8	245	92
9	280	126
10	315	149
11	350	148
12	385	143

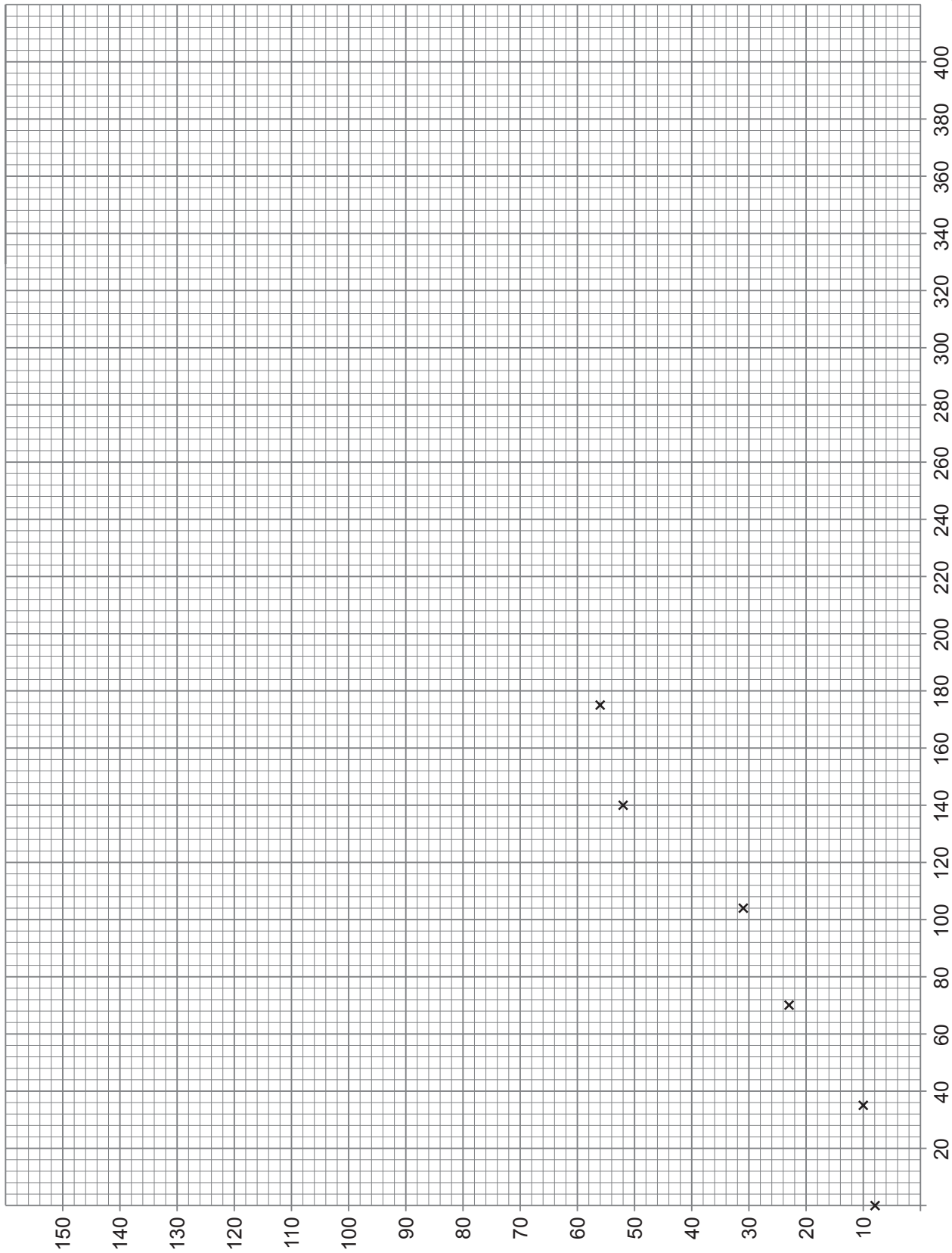**(i)** Using the data above, complete the graph in **Resource 1B** and label it fully. [7]

Resource 1B

Title of graph: _____

3

[Turn over

(ii) Describe the pattern on your completed graph.

_____

_____

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_____ [3]

(iii) Suggest **one** geographical reason to explain this pattern.

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_____ [3]

4

(b) A geographer studying service distribution in Greater Dublin, Ireland m̶
distribution of a chain of fast food restaurants within this area as illustrate̶
Resource 1C below.

Resource 1C
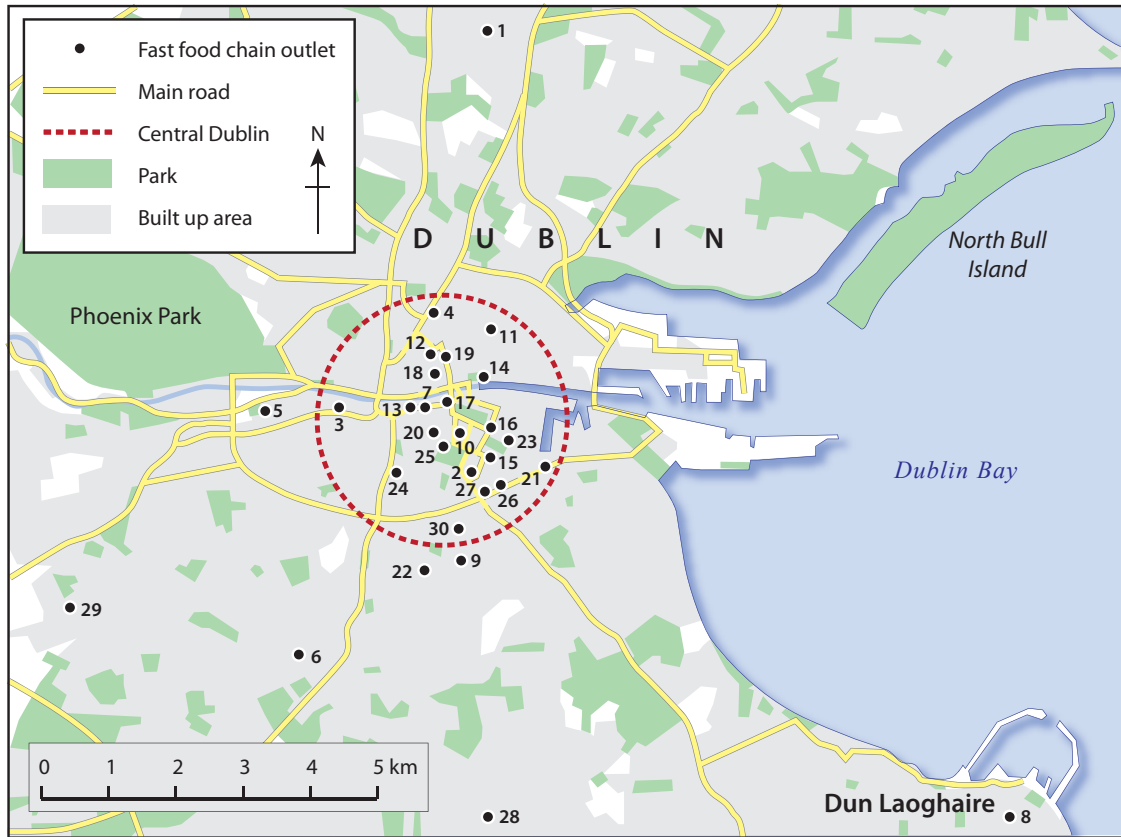
Source: Principal Examiner

(i) Using **Resource 1C** on page 5, complete **Resource 1D** by filling in the three missing values. [3]

Resource 1D

Restaurant Number	Nearest Neighbour	Distance (km)
1		4.02
2	15	0.40
3	5	1.13
4	12	0.56
5	3	1.13
6	22	2.09
7	13	1.61
8		7.57
9	30	0.48
10	20	0.32
11	14	0.72
12	19	0.16
13	7	0.16
14	17	0.64
15	2	0.40
16	23	0.32
17	7	0.32
18	19	0.40
19	12	0.16
20	25	0.24
21	23	0.72
22	9	0.56
23	16	0.32
24	25	0.72
25	20	0.40
26	27	0.16
27	26	0.16
28	6	3.62
29		3.31
30	9	0.48

Sum: 33.28

Area: 194.21 km^2

(ii) In the space below, complete the Nearest Neighbour Analysis (Rn calculation) and state the type of distribution shown in **Resource 1C**. The Nearest Neighbour Index Equation and significance graphs are presented in **Resource 1E** (on page 8).

Show all calculations clearly.   Area $= 194.21km^2$

Calculated Rn value _____

Type of distribution _____

[6]

(iii) Discuss how the Rn value and type of distribution may have been affected if this study had only covered the Central Dublin area rather than the Greater Dublin area.
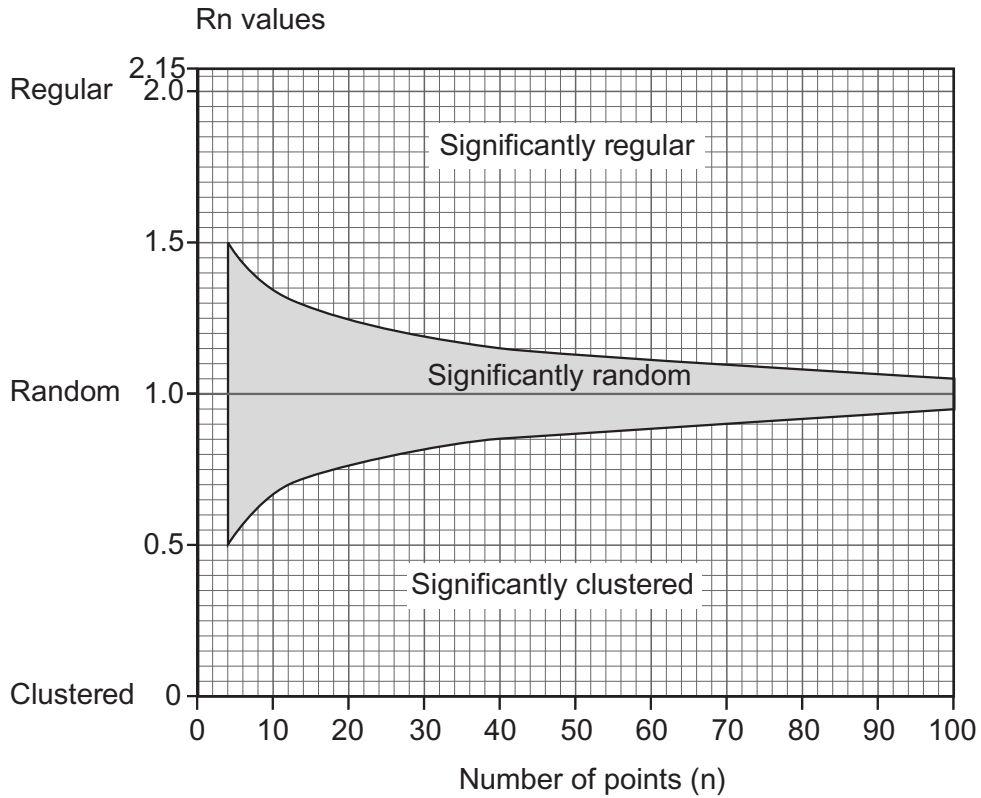
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_____ [3]

Resource 1E

Nearest Neighbour Index Equation

Formula: $$Rn = 2\bar{d}\sqrt{\frac{n}{A}}$$

where $\bar{d}$ = the mean distance between nearest neighbours
n = number of points
A = area in question

Nearest Neighbour Index Significance Graph

(c) Researchers studying life expectancy in the United Kingdom investigated whether location and gender have an impact on the results. Study **Resource 1F** below showing the results from their sample of 1000 people.

Resource 1F

	Mean life expectancy for males (years)	Mean life expectancy for females (years)
England	78.3	82.3
Wales	77.2	81.6
Scotland	75.4	80.1
Northern Ireland	76.8	81.4

Source: Principal Examiner

(i) Identify which sampling method would be most appropriate for the researchers to have used in this study and justify your choice.

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_____

_____

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_____ [3]

(ii) Suggest an explanation for **one** difference shown in **Resource 1F** (either between genders or regions).

_____

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_____ [2]

Section B

Answer **all three** questions in this section.

2 **(a)** Study **Resource 2A** showing the population distribution of Egypt and **Resource 2B** showing the main physical features of Egypt and answer the questions that follow.

Resource 2A

© "Map courtesy of www.theodora.com/maps , used with permission"

Resource 2B

Copyright©2012-13 www.mapsofworld.com

(i) Describe the population distribution of Egypt using **Resource 2A**.

_____

_____

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_____ [2]

(ii) Using **Resource 2B,** discuss how **two physical** factors may have affected the population distribution of Egypt.

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_____ [6]

(b) Describe **two** problems associated with population data collection in LEDCs.
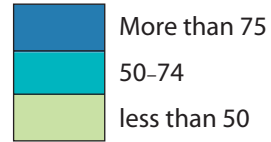
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_____ [4]

3 (a) Study **Resource 3** which shows the percentage of the population living ~~in metropo~~litan areas by state in the United States of America (USA) in 1910, 1950 and 2~~000~~. ~~Then~~ answer the questions which follow.
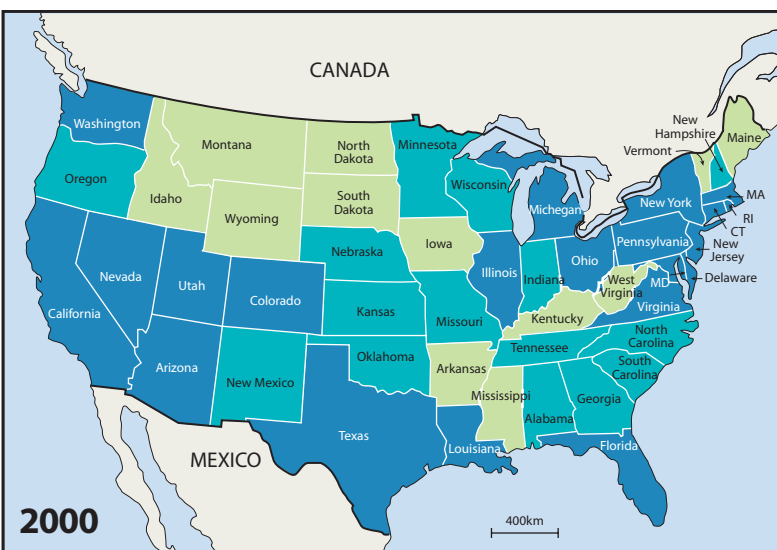
Resource 3

A metropolitan area is a region consisting of a populous urban core and its surrounding territory.

Source: U.S. Census Bureau, decennial census of population

(i) Describe the trend from 1910–2000 in the USA shown in **Resource 3**.

_____

_____

_____

_____ [2]

(ii) Name the urban process shown in **Resource 3**.

_____ [1]

(iii) Describe **one** possible effect of this process on the rural-urban fringe of metropolitan areas.

_____

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_____ [3]

(b) The following issues affect the inner city in MEDCs:

- social deprivation
- economic deprivation
- re-urbanisation
- gentrification.

Choose **one** of these issues and describe how it has affected your inner city MEDC case study.

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_____ [6]

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(Questions continue overleaf)

4 **(a)** Study **Resource 4** showing the annual percentage increase in GDP in Sub-Saharan Africa from 2003 to 2011.

Resource 4

(i) Using the resource, describe the changes in GDP in Sub-Saharan Africa and explain how these could affect the rate of development in the region.

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_____ [5]

(ii) GDP is an economic measure of development. Describe and evaluate **one social** measure of development.

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_____ [4]

(b) Identify and describe **one** effect of colonialism.

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_____ [3]

Section C

> Answer **any two** questions in this section.

5   Discuss the economic, social and political implications of differing
dependency ratios in MEDCs and LEDCs.   [12]

6   **Either**

(a) With reference to your case study, discuss how economic
regeneration is delivered to remote rural areas by regional
development agencies.

Or

(b) With reference to a protected area you have studied, discuss the
attempts to manage it for conservation, recreation and tourism.   [12]

7   Define globalisation and trade and discuss how they have created
negative and/or positive effects for the development of LEDCs.   [12]
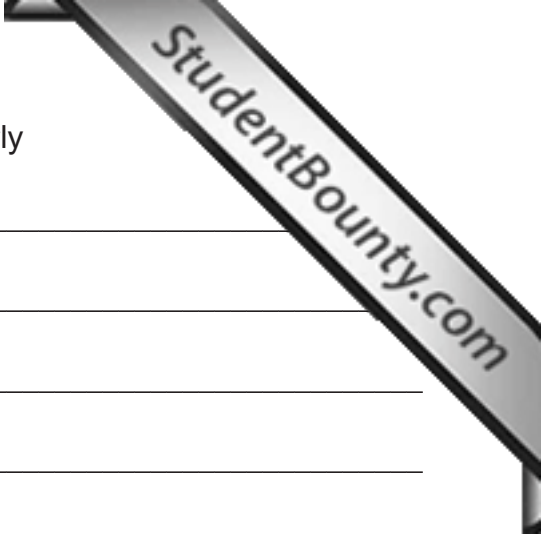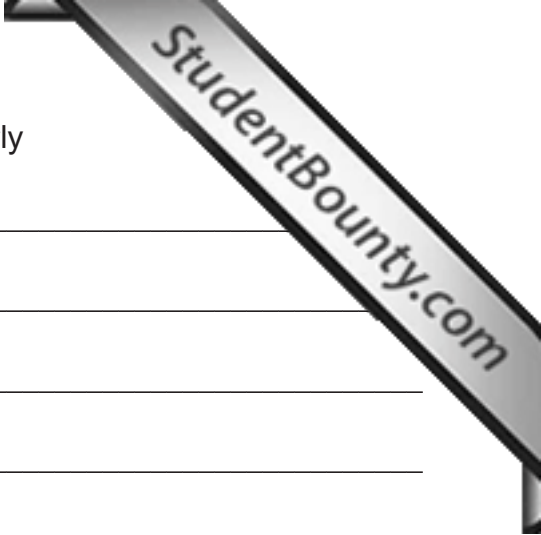
Number your answers clearly

Question Number	

20

Question Number	

Question Number	Number your answers clearly

7302

Number your answers clearly

Question Number	

23

Question Number	Number your answers clearly

24

Question Number	

THIS IS THE END OF THE QUESTION PAPER

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