

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL A-LEVEL GEOGRAPHY

Paper 5 Fieldwork and Geographical Skills

Monday 16 June 2025

07:00 GMT

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- All working must be shown.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this answer book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	



Section A

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section A**.

0	1
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Outline the purpose of a risk assessment in a geographical enquiry.

[4 marks]

Extra space

4



Turn over for the next question

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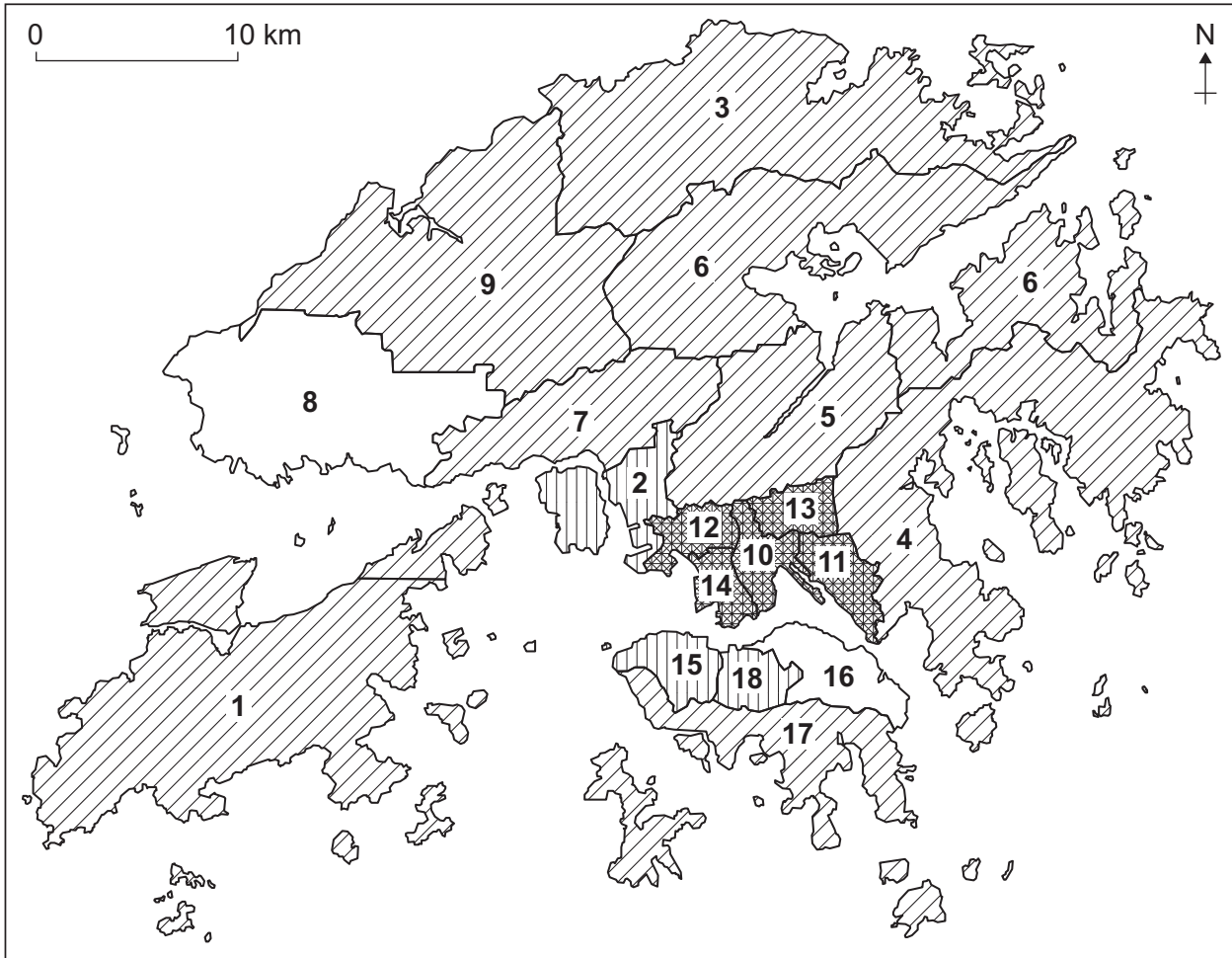


0 3

0 2

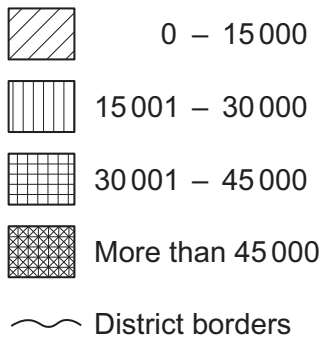
Figure 1 is a partly completed choropleth map of Hong Kong showing the population density of each district in 2021.

Figure 1



Key

**Population density
(people per km²)**



The New Territories

- 1 Islands
- 2 Kwai Tsing
- 3 North
- 4 Sai Kung
- 5 Sha Tin
- 6 Tai Po
- 7 Tsuen Wan
- 8 Tuen Mun
- 9 Yuen Long

Kowloon

- 10 Kowloon City
- 11 Kwun Tong
- 12 Sham Shui Po
- 13 Wong Tai Sin
- 14 Yau Tsim Mong

Hong Kong Island

- 15 Central and Western
- 16 Eastern
- 17 Southern
- 18 Wan Chai



0 2 . 1

Complete **Figure 1** using the data for Tuen Mun and Eastern districts shown in **Table 1**.

[2 marks]

Table 1

District	Population density (people per km ²)
8 Tuen Mun	6115
16 Eastern	28534

0 2 . 2

Describe the information shown in the completed **Figure 1**.

[3 marks]

Question 2 continues on the next page

Turn over ►



[6 marks]

[illegible]

11



Figure 2 is a photograph of part of the Kowloon City District of Hong Kong.

Figure 2



0 3

Complete **Figure 2** by adding **three** annotations, joined by lines to the photograph, to describe characteristics of its human geography.

Write the annotations in the frame around the photograph.

[3 marks]

3

Turn over ►



0 4

A student was studying the possible relationship between soil depth and vegetation diversity on a hill slope in south-west China.

The hypothesis they investigated was:

‘There is a relationship between soil depth and vegetation diversity.’

In order to test this hypothesis, the student collected data using a systematic sampling method. They took measurements at intervals of 20 m from the top of the slope until they reached a point in the valley 240 m downhill.

They measured distance with a tape measure and soil depth (to the nearest 0.5 cm) with a soil auger. (A soil auger is a metal device screwed into the soil until it reaches solid rock.)

They measured vegetation diversity by counting the number of different plant species within a 1 m² quadrat dropped on the ground. (A quadrat is a square metal frame.)

Table 2 shows the data collected.

Table 2

Distance from the top of the slope (m)	Soil depth (cm)	Number of different plant species recorded in a 1 m ² quadrat
0	3	1
20	5	3
40	7	3
60	6	4
80	8	5
100	9	6
120	11.5	7
140	14	7
160	12	6
180	16	8
200	17.5	8
220	15	9
240	18	2



[6 marks]

[illegible]

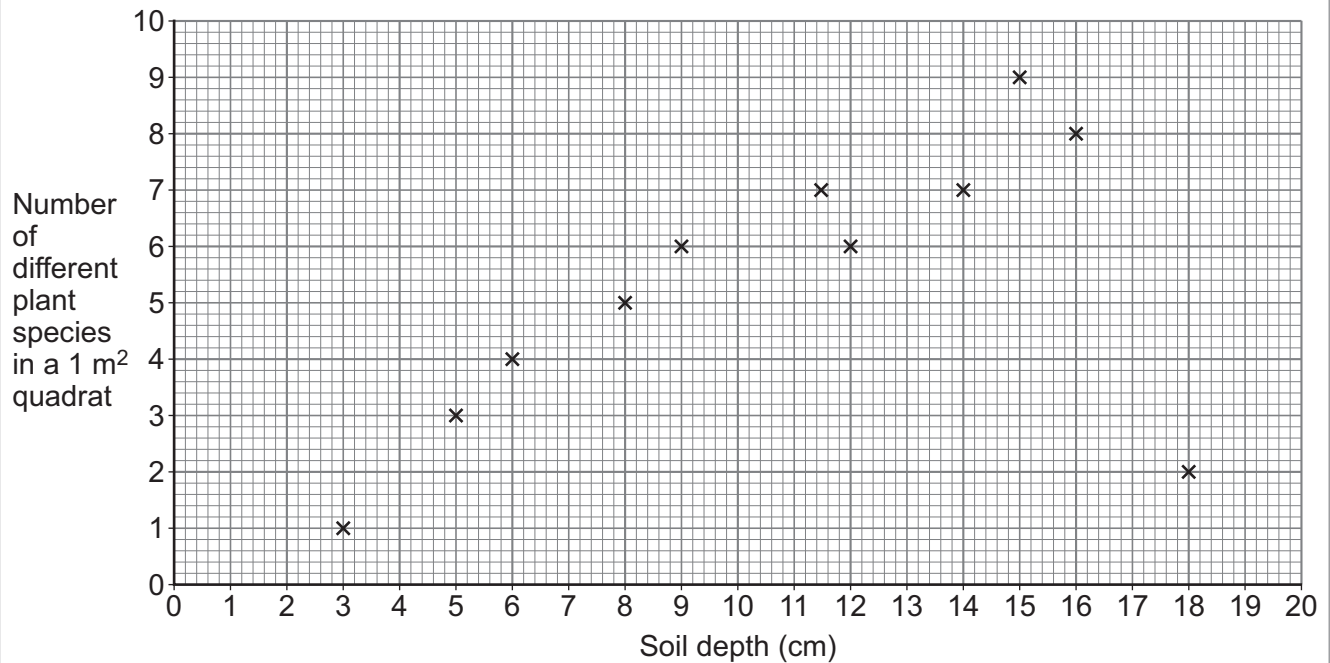
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The student plotted data for soil depth and vegetation diversity on a scatter graph for analysis.

Figure 3 shows the partly completed scatter graph the student produced.

Figure 3



0 4 . 2

Complete **Figure 3** by adding the data recorded at 40 m and 200 m shown in **Table 3**.

Table 3

Distance down slope (m)	Soil depth (cm)	Number of plant species
40	7	3
200	17.5	8

[2 marks]

0 4 . 3

Draw a line of best fit on the completed **Figure 3**.

[1 mark]

0 4 . 4

Draw a circle around the point on **Figure 3** that is an anomaly.

[1 mark]



Question 4 continues on the next page

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To evaluate the relationship between soil depth and vegetation diversity, the student decided to use the Spearman's rank correlation test.

A Spearman's rank correlation test has been started in **Table 4**.

The hypotheses being tested are:

Null Hypothesis (H_0) = there is no relationship between soil depth and vegetation diversity.

Alternative Hypothesis (H_1) = there is a relationship between soil depth and vegetation diversity.

0 4 . 5

Complete **Table 4** and calculate the Spearman's rank correlation coefficient to **one decimal place**.

Show your working.

[5 marks]

Table 4

Soil depth (cm)	Rank	Number of different plant species recorded in a 1 m ² quadrat	Rank	Difference between ranks (d)	Difference squared (d ²)
3	13	1	13	0	0
5		3			
7	10	3	10.5	-0.5	0.25
6	11	4	9	2	4
8		5			
9	8	6	6.5	1.5	2.25
11.5	7	7	4.5	2.5	6.25
14	5	7	4.5	0.5	0.25
12	6	6	6.5	-0.5	0.25
16	3	8	2.5	0.5	0.25
17.5	2	8	2.5	-0.5	0.25
15	4	9	1	3	9
18	1	2	12	-11	121
					$\Sigma d^2 = 147$



Spearman's rank correlation (r_s) formula is:

$$r_s = 1 - \frac{6 \sum d^2}{n^3 - n}$$

$\sum d^2$ = sum of d^2 values

n = number of pairs of data

Answer (to 1 decimal place) = _____

Question 4 continues on the next page

Turn over ►



Table 5 shows an extract from the table of critical values for the Spearman's rank correlation.

Table 5

	Levels of significance	
	0.05	0.01
Critical values	0.48	0.67

0 4 . 6

Assess the student's Alternative Hypothesis (H_1) that there is a relationship between soil depth and vegetation diversity.

Use the information in **Table 5** above, **Figure 3** and **Table 3** on page 10, and **your calculated Spearman's rank correlation answer**.

[3 marks]

18



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[9 marks]

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END OF SECTION A

Turn over for Section B

Turn over ►



Section B

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section B**.

0 6

You have experienced geography fieldwork as part of your course. Use this experience to answer Questions **06.1** and **06.2**.

State the aim(s) of your fieldwork enquiry.

0 6 . 1

Evaluate the suitability of the location used in your fieldwork enquiry in meeting the aim(s) of the enquiry.

[6 marks]

Extra space _____



0 6 . 2

To what extent did your conclusions help improve your understanding of the geographical ideas forming the basis of the enquiry?

[9 marks]

Extra space _____

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15

END OF QUESTIONS



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[illegible]

