OXFORD AQA

INTERNATIONAL QUALIFICATIONS

Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

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I declare this is my own work.

INTERNATIONAL A-LEVEL

GEOGRAPHY

Paper 5 Fieldwork and Geographical Skills

Tuesday 9 June 2026 08:00 UK Time 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	

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Section A

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

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

0 1 Outline reasons for using photographs in a geographical investigation.

[4 marks]

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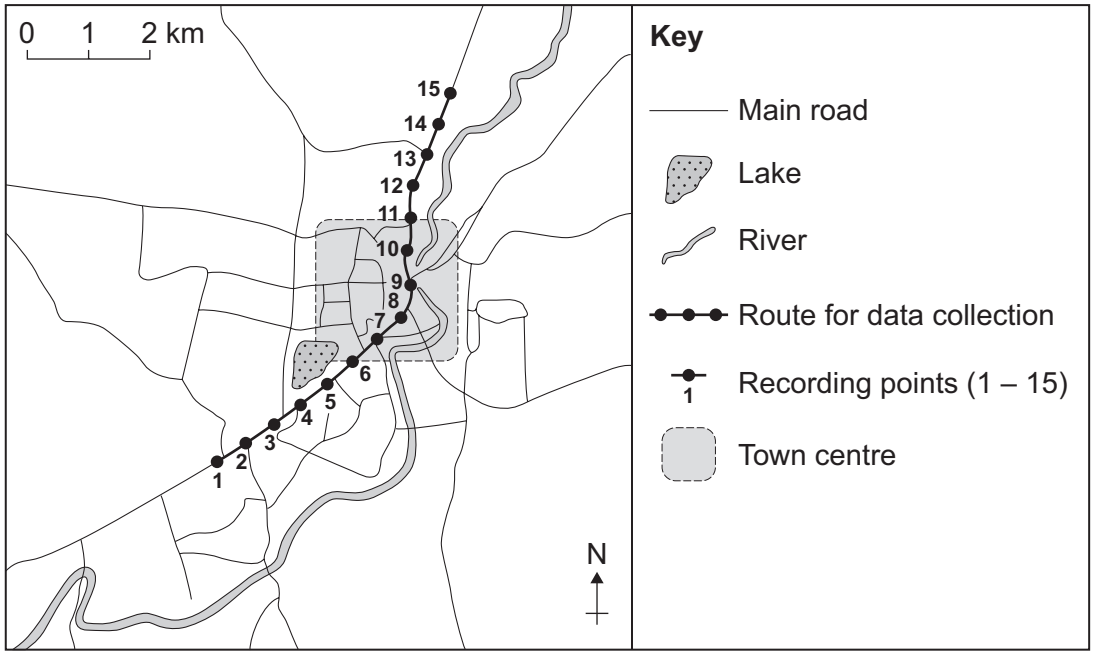
0 2 Students were investigating urban temperature differences in the town of Mueang Chanthaburi in Thailand.

They were investigating the hypothesis that temperature decreased with distance from the town centre.

The students collected data by using systematic sampling. They took temperature readings at 15 locations, 500 m apart.

Figure 1 shows the route taken and the locations for data collection.

Figure 1



0 2 . 1 Evaluate the use of systematic sampling in a geographical enquiry.

Use **Figure 1** and your own knowledge.

[6 marks]

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Question 2 continues on the next page

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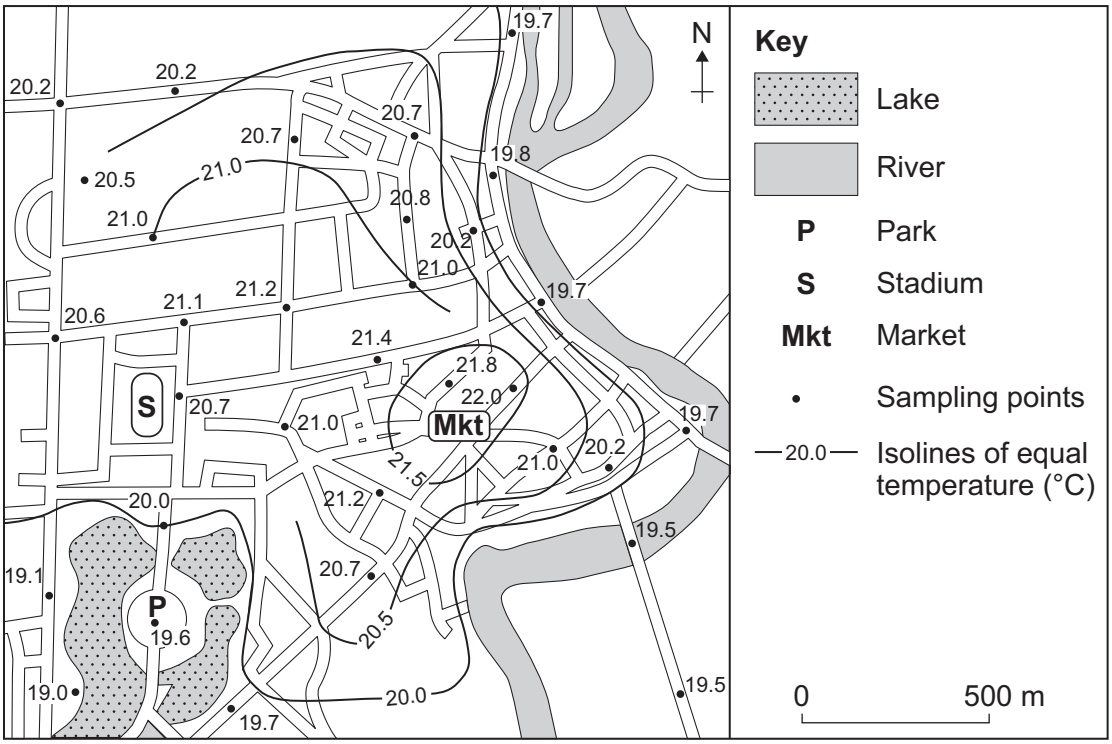
The students collected more data from around the town centre.

They used this to create an isoline map for Mueang Chanthaburi.

Figure 2 is an incomplete isoline map of these temperatures. The isolines are drawn by joining points of equal temperature.

Figure 2



0 2 . 2 Complete the 20.5 °C and 21 °C isolines on **Figure 2**.

[2 marks]

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0 2 . 3 Describe the pattern shown in the completed isoline map in **Figure 2**.

[3 marks]

11

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0 3 A student investigated the link between population size and the number of service businesses in towns in the Chanthaburi province of Thailand.

They tested the hypothesis that 'towns with a larger population had a greater number of service businesses'.

They used the internet to collect data about the towns' approximate population and the approximate number of service businesses.

Table 1 shows the data collected.

Table 1

Town	Approximate population	Approximate number of service businesses
Chanthanimit	24 000	405
Kaeng Hang Maeo	37 700	285
Khao Khitchakut	23 000	163
Khlung	55 000	465
Laem Sing	20 000	215
Makham	30 000	253
Mueang Chanthaburi	120 000	1425
Na Yai Am	22 000	233
Phlio	8 000	244
Pong Nam Ron	22 000	210
Soi Dao	42 000	355
Tha Chalaep	13 000	239
Tha Mai	10 000	350
Wang Tanot	12 000	189

The student decided to use the Spearman's rank correlation test to see if there was a statistically significant relationship between population size and the number of service businesses.

Null Hypothesis H_0 – there is no significant relationship between population size and the number of service businesses in towns in Chanthanburi province.

Alternative Hypothesis H_1 – there is a significant relationship between population size and the number of service businesses in towns in Chanthanburi province.

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A Spearman's rank correlation test has been started in **Table 2**.

Table 2

Town	Approximate population	Rank	Approximate number of service businesses	Rank	Difference between ranks (d)	d^2
Chanthanimit	24 000	6	405	3	3	9
Kaeng Hang Maeo	37 700	4	285	6	–2	4
Khao Khitchakut	23 000	7	163	14	–7	49
Khlung	55 000	2	465	2	0	0
Laem Sing	20 000		215			
Makham	30 000	5	253	7	–2	4
Mueang Chanthaburi	120 000	1	1425	1	0	0
Na Yai Am	22 000		233			
Phlio	8 000	14	244	8	6	36
Pong Nam Ron	22 000	8.5	210	12	–3.5	12.25
Soi Dao	42 000	3	355	4	–1	1
Tha Chalaep	13 000	11	239	9	2	4
Tha Mai	10 000	13	350	5	8	64
Wang Tanot	12 000	12	189	13	–1	1
						Σd^2 = 187.5

0 3 . 1 Complete **Table 2** and calculate the Spearman's rank correlation coefficient to three decimal places.

Spearman's rank correlation coefficient (r_s) formula is:

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

n = number of ranked pairs

Σd^2 = sum of d^2 values

[5 marks]

Space for working:

Answer = _____

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0 3 . 2 **Table 3** shows the critical values for the Spearman's rank correlation coefficient for 14 pairs of data.

Table 3

	Levels of significance	
	0.05	**0.01**
Critical value	0.538	0.675

Using the information in **Table 3**, interpret the statistical significance of your Spearman's rank correlation result.

[3 marks]

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Question 3 continues on the next page

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ANSWER IN THE SPACES PROVIDED

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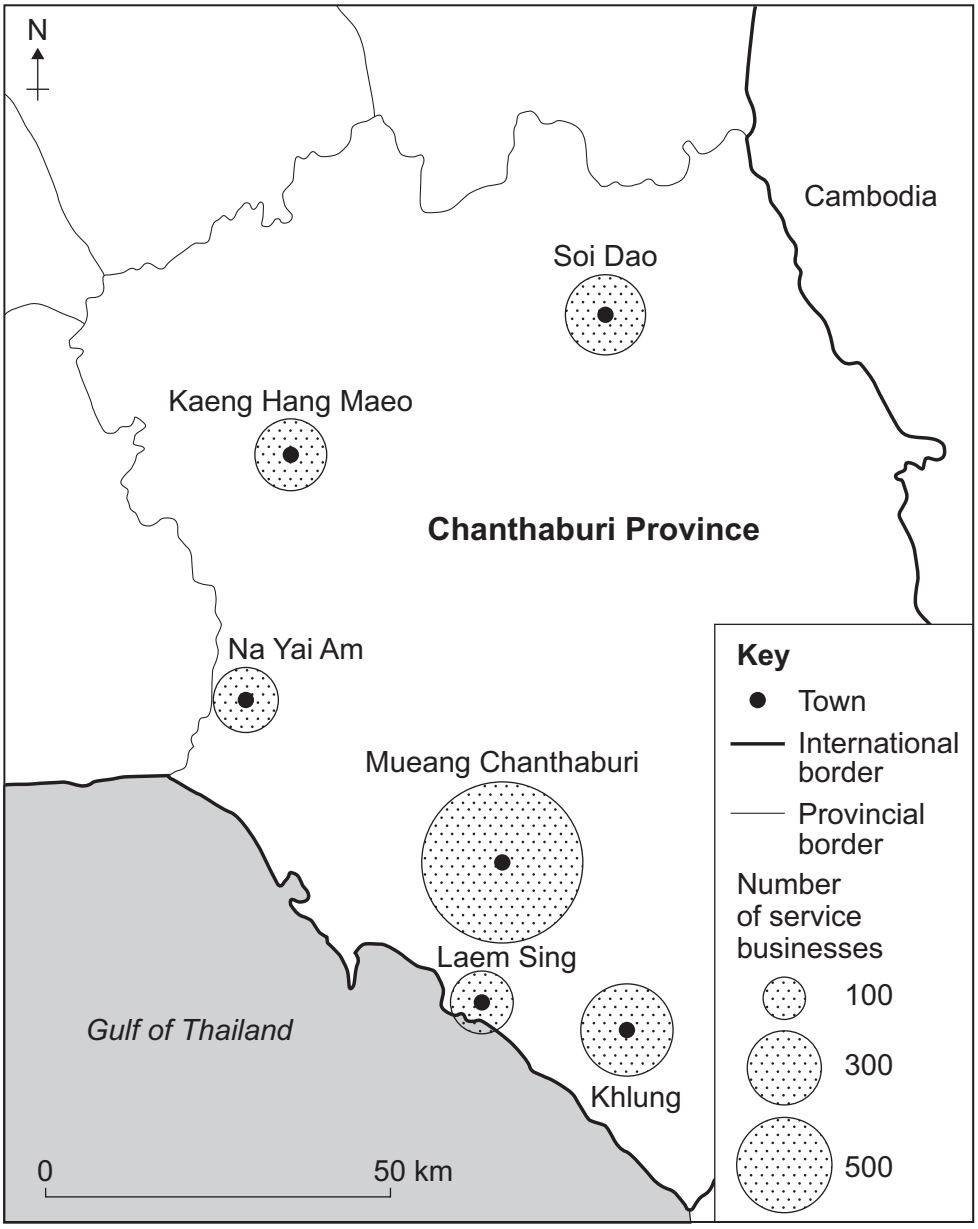
0 3 . 3 **Table 4** shows the data for the number of service businesses in 6 towns in Chanthaburi province.

Table 4

Town	Approximate number of service businesses
Kaeng Hang Maeo	285
Khlung	465
Laem Sing	215
Mueang Chanthaburi	1425
Na Yai Am	233
Soi Dao	355

Figure 3 shows the data for the number of service businesses in these towns using located proportional circles, a type of proportional symbol.

Figure 3



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Describe the method used to construct a map of located proportional symbols, such as proportional circles, to present this data.

[6 marks]

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0 4 Further research about the towns shown in **Table 3** produced data on the percentage of people employed in different industrial sectors.

Table 5 shows the percentage of employed people in the primary, secondary and tertiary sectors of industry in these towns.

Primary industry = obtaining raw materials, eg farming, fishing
Secondary industry = manufacturing and processing
Tertiary industry = providing personal and professional services

Table 5

Town	% employed in primary industry	% employed in secondary industry	% employed in tertiary industry
Chanthanimit	30	25	45
Kaeng Hang Maeo	61	16	23
Khao Khitchakut	70	10	20
Khlung	52	20	28
Laem Sing	45	20	35
Makham	60	20	20
Mueang Chanthaburi	30	28	42
Na Yai Am	55	18	27
Phlio	40	10	50
Pong Nam Ron	50	15	35
Soi Dao	58	17	25
Tha Chalaep	45	25	30
Tha Mai	70	20	10
Wang Tanot	80	10	10

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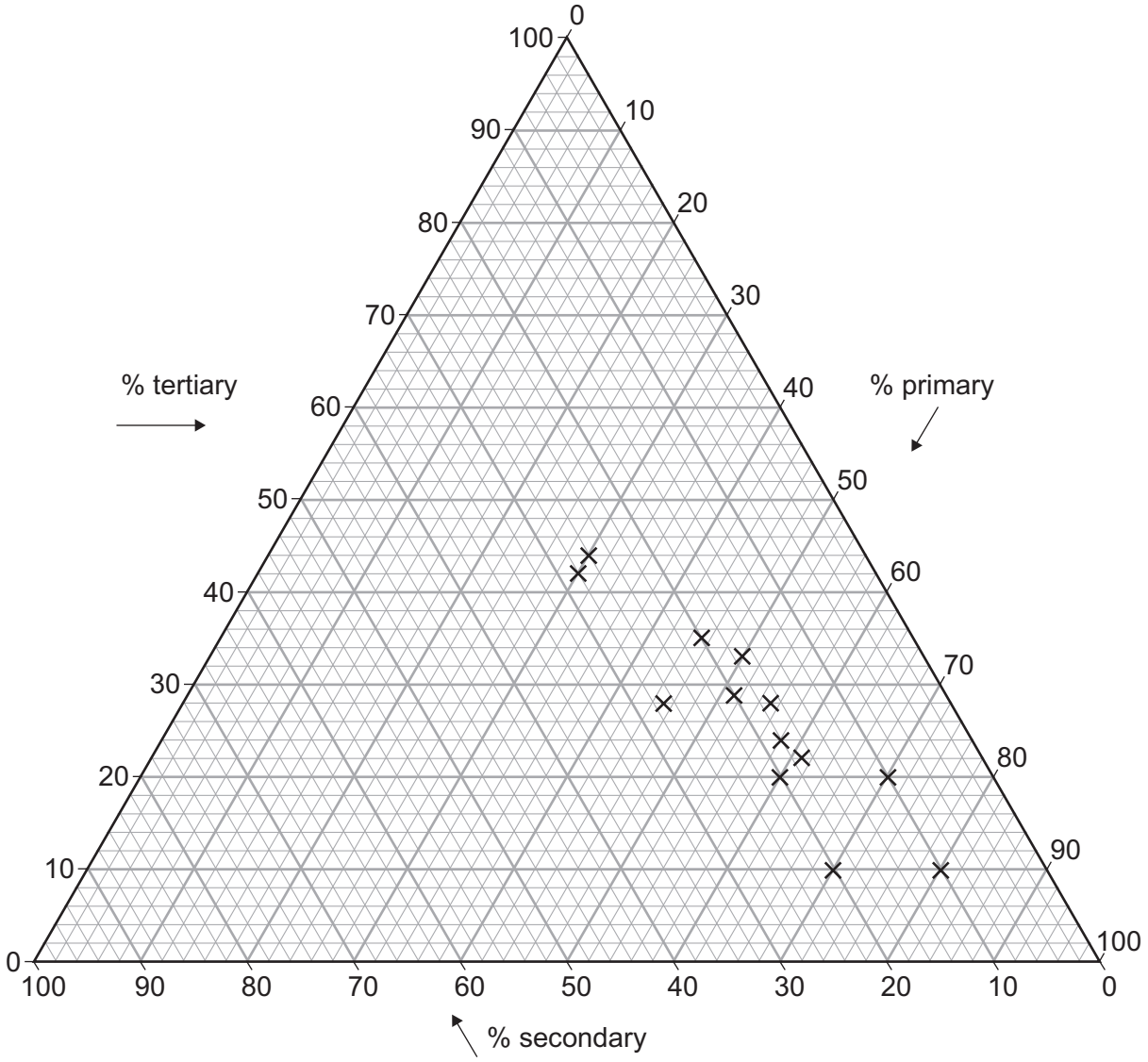
Figure 4 is a partly completed triangular graph showing the data for 13 towns in **Table 5**.

Figure 4



0 4 . 1 Complete **Figure 4** by adding the data for Phlio.

[1 mark]

Question 4 continues on the next page

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0 4 . 2 Assess the advantages and disadvantages of using triangular graphs to present data.

[6 marks]

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0 5 Evaluate the use of primary and secondary data within geographical investigations.
[9 marks]

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END OF SECTION A

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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 Explain the ethical considerations of your enquiry.

[6 marks]

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0 6 . 2 To what extent did your data analysis method(s) help you reach a reliable conclusion to the aim of your enquiry?

[9 marks]

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END OF QUESTIONS

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