Please write clearly in block capitals.

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

Surname _____

Forename(s) _____

Candidate signature _____
I declare this is my own work.

GCSE
GEOGRAPHY

Paper 2 Challenges in the human environment

Wednesday 5 June 2024 Morning Time allowed: 1 hour 30 minutes

Materials
For this paper you must have:
- the OS map key insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions
- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

Answer all questions in Section A and Section B.
Answer Question 3 and one other question in Section C.

- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need additional 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 book. Cross through any work you do not want to be marked.

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

Information
- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question **01.11**.
- HIC is a higher income country.
- LIC is a lower income country.
- NEE is a newly emerging economy.

Do not write outside the box

For the multiple-choice questions, shade the circle next to the correct answer.

CORRECT METHOD ⬬ WRONG METHODS

If you want to change your answer you must cross out your original answer as shown.

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.

Section A Urban issues and challenges

Answer **all** questions in this section.

Question 1 Urban issues and challenges

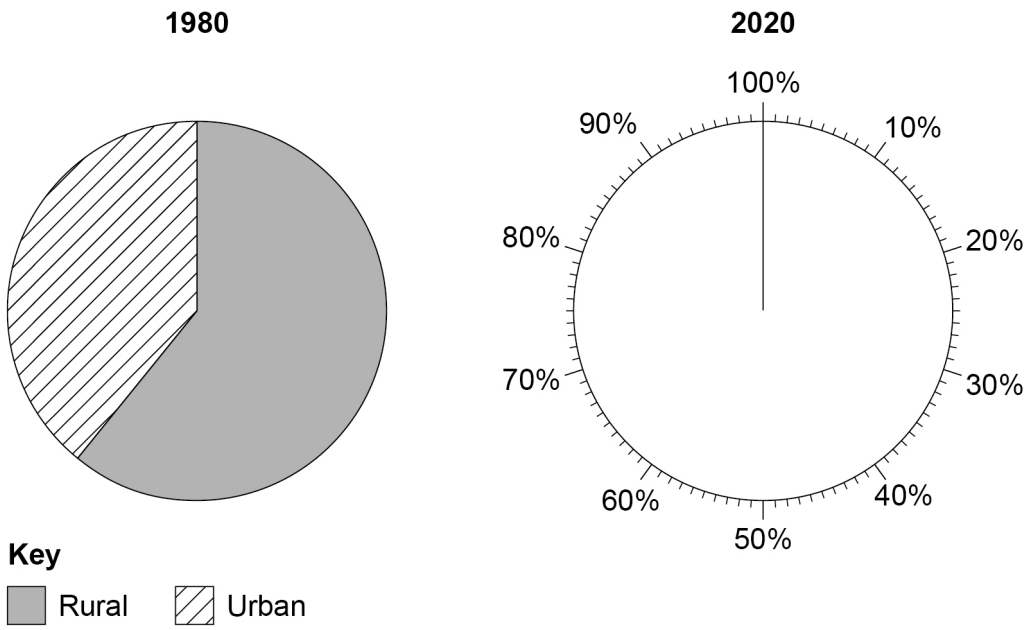
Figure 1 is pie charts showing the percentage of the global population living in rural and urban areas in 1980 and 2020.

0 1 . 1 Complete **Figure 1** below using the following data.

[2 marks]

	1980	**2020**
Rural	61%	44%
Urban	39%	56%

Figure 1



Do not write outside the box

0 1 . 2 Using **Figure 1**, which of the following statements is true?

Shade **one** circle only.

Between 1980–2020 the proportion of the population living in rural areas:

[1 mark]

A decreased by 12% ⬭

B decreased by 17% ⬭

C doubled ⬭

D increased by 12% ⬭

0 1 . 3 Give **two** push factors that encourage people to leave rural areas in LICs/NEEs.

[2 marks]

1 _____

_____

2 _____

_____

0 1 . 4 Give **one** way a major city in a LIC/NEE is nationally important.

[1 mark]

Name of major city _____

National importance _____

_____

Question 1 continues on the next page

Do not write outside the box

Study **Figure 2**, an article on managing the challenges of urban growth.

Figure 2

Tam Tam Mobile is a community waste disposal scheme in Melen, an area of Yaoundé, the capital city of Cameroon. Before the scheme, the area had no waste collection and the waste ended up in ditches and blocked drains when it rained.

The scheme started in 1997 and has grown so that now a team of 60 people are paid to collect waste from 300 houses.

Recently, the United Nations widened the unpaved roads for easier access for waste collection. A local charity helped train staff and provided protective clothing, gloves, wheelbarrows and rubbish bags.

0 1 . 5 To what extent is managing environmental issues, such as waste disposal, a challenge in cities in LICs/NEEs?

Use **Figure 2** and your own understanding.

[6 marks]

Extra space

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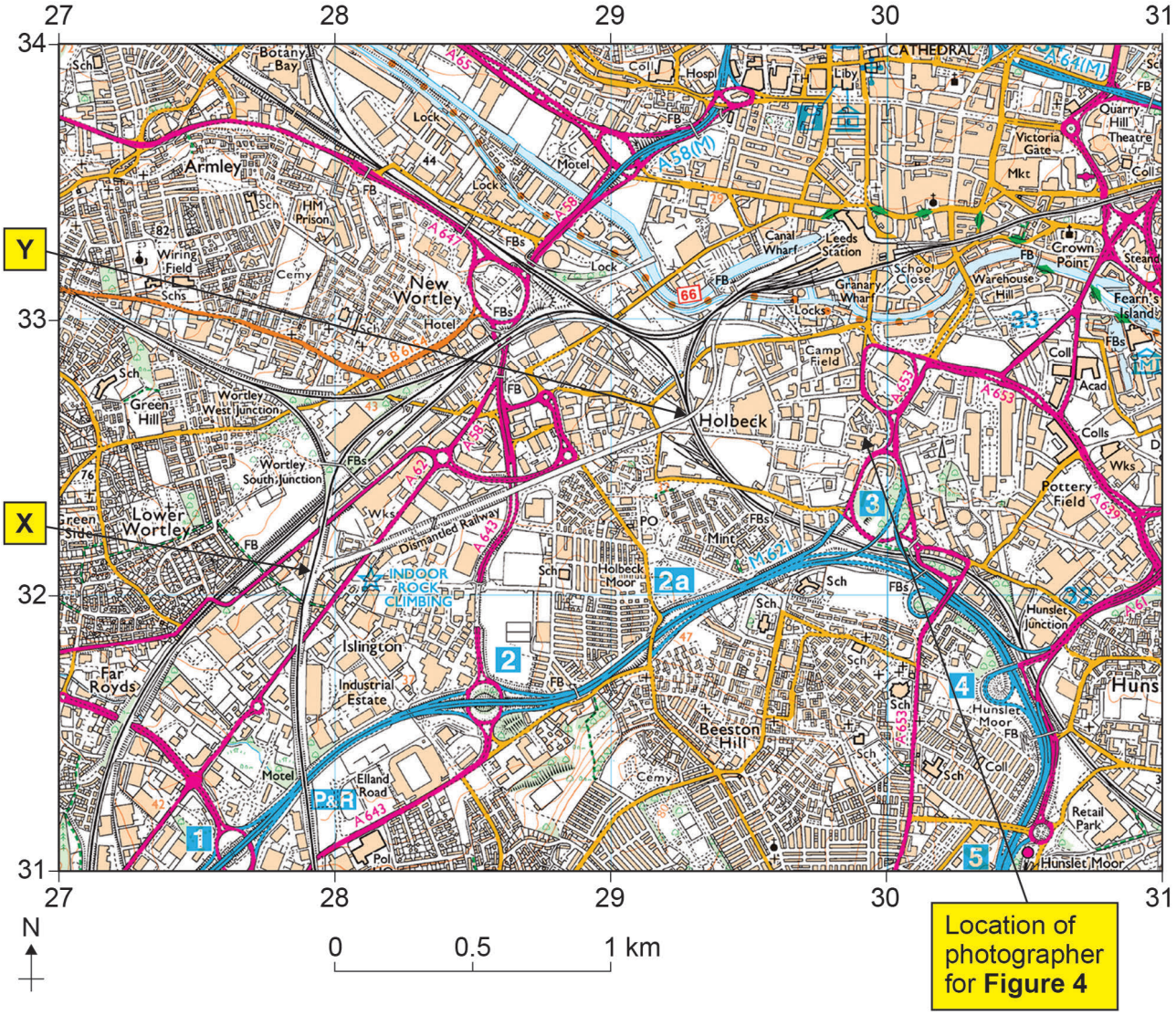
Question 1 continues on the next page

Do not write outside the box

Study **Figure 3**, a 1:25 000 Ordnance Survey map showing part of Leeds.

Figure 3



0 1 . 6 What is found at 298333?

Shade **one** circle only.

[1 mark]

A Cathedral ⬭

B Hospital ⬭

C Leeds Station ⬭

D Museum ⬭

Do not write outside the box

Study **Figure 4,** a photograph of part of the area shown in **Figure 3**.

Figure 4

0 1 . 7 Using **Figure 3** and **Figure 4**, what direction was the photographer facing when the photograph was taken?

Shade **one** circle only.

[1 mark]

A North ⬭

B South ⬭

C East ⬭

D West ⬭

0 1 . 8 Using **Figure 3**, what is the straight line distance from point **X** to point **Y** (along the Holbeck Viaduct, a dismantled railway) to the nearest 500 m?

Shade **one** circle only.

[1 mark]

A 0.5 km ⬭

B 1.0 km ⬭

C 1.5 km ⬭

D 2.0 km ⬭

Do not write outside the box

0 1 . 9 Outline **one** problem caused by dereliction in cities.

[2 marks]

Study **Figure 5**, information about the Holbeck Viaduct Project shown in grid square 2832 on **Figure 3**.

Figure 5

Now

Proposed development

There are plans to convert the top of an old railway viaduct into a green route into the centre of Leeds. The dismantled railway could become a safe route for walkers and cyclists with areas used as a park.

Do not write outside the box

0 1 . 1 0 Suggest how urban greening can create opportunities in UK cities.

Use **Figure 5** and your own understanding.

[4 marks]

Extra space

0 1 . 1 1 To what extent can water and energy conservation make cities more sustainable?

[9 marks]
[+ 3 SPaG marks]

Do not write outside the box

Extra space

33

End of Section A

Do not write outside the box

Section B The changing economic world

Answer **all** questions in this section.

Question 2 The changing economic world

Study **Figure 6**, a table showing the gross national income (GNI) for selected Central and South American countries in 2020.

Figure 6

Country name	**GNI US$ per person per year**
Argentina	9 070
Brazil	7 850
Colombia	5 790
Ecuador	5 530
Guyana	7 130
Panama	12 420
Paraguay	5 180
Peru	6 030
Suriname	4 620

0 2 . 1 Calculate the median value for the GNI data in **Figure 6**.

[2 marks]

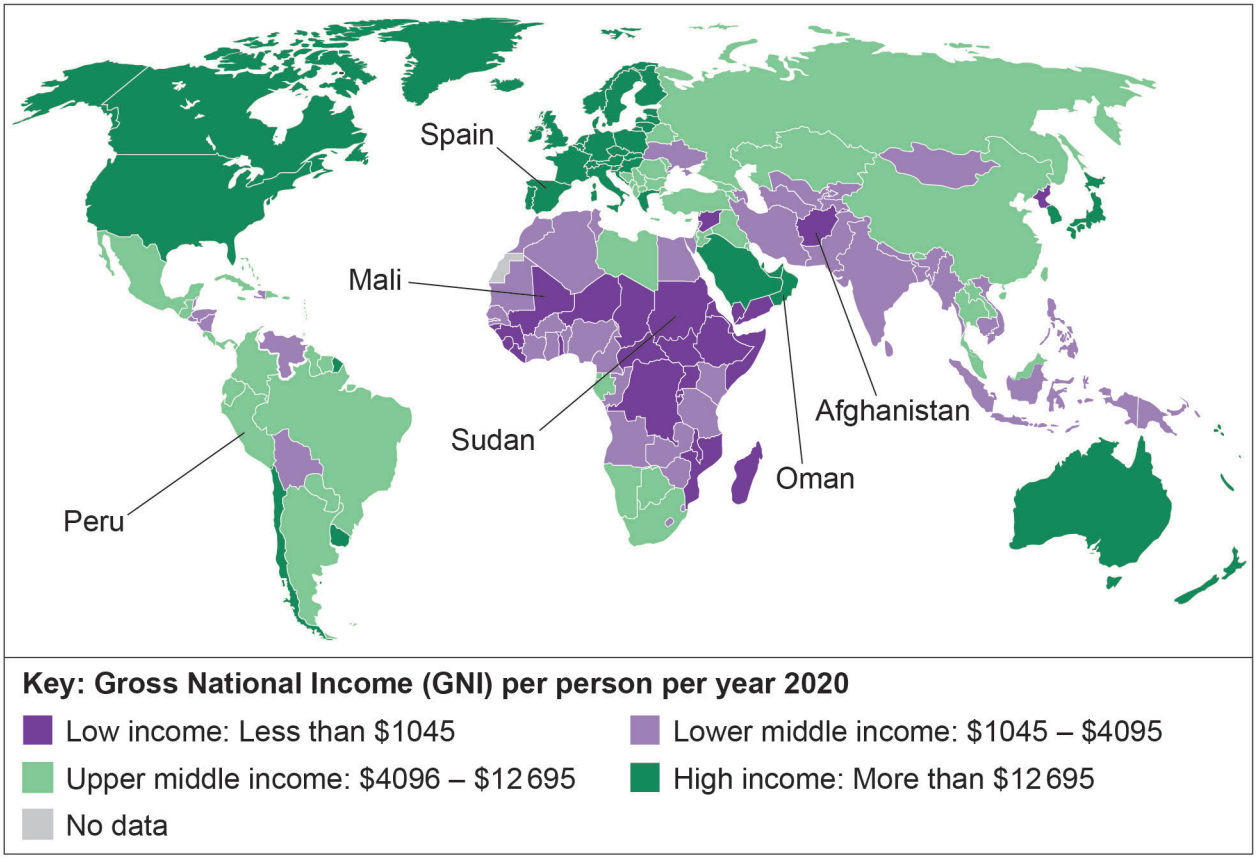
Show your working

Answer: _____ US$ per person per year

Do not write outside the box

Study **Figure 7**, a world map showing countries according to World Bank income groups.

Figure 7



0 2 . 2 Using **Figure 7**, which of the following statements is correct?

Shade **one** circle only.

[1 mark]

A Africa contains all the low income countries. ⬭

B Asia contains no high income countries. ⬭

C Oceania contains no high income countries. ⬭

D South America has no low income countries. ⬭

Do not write outside the box

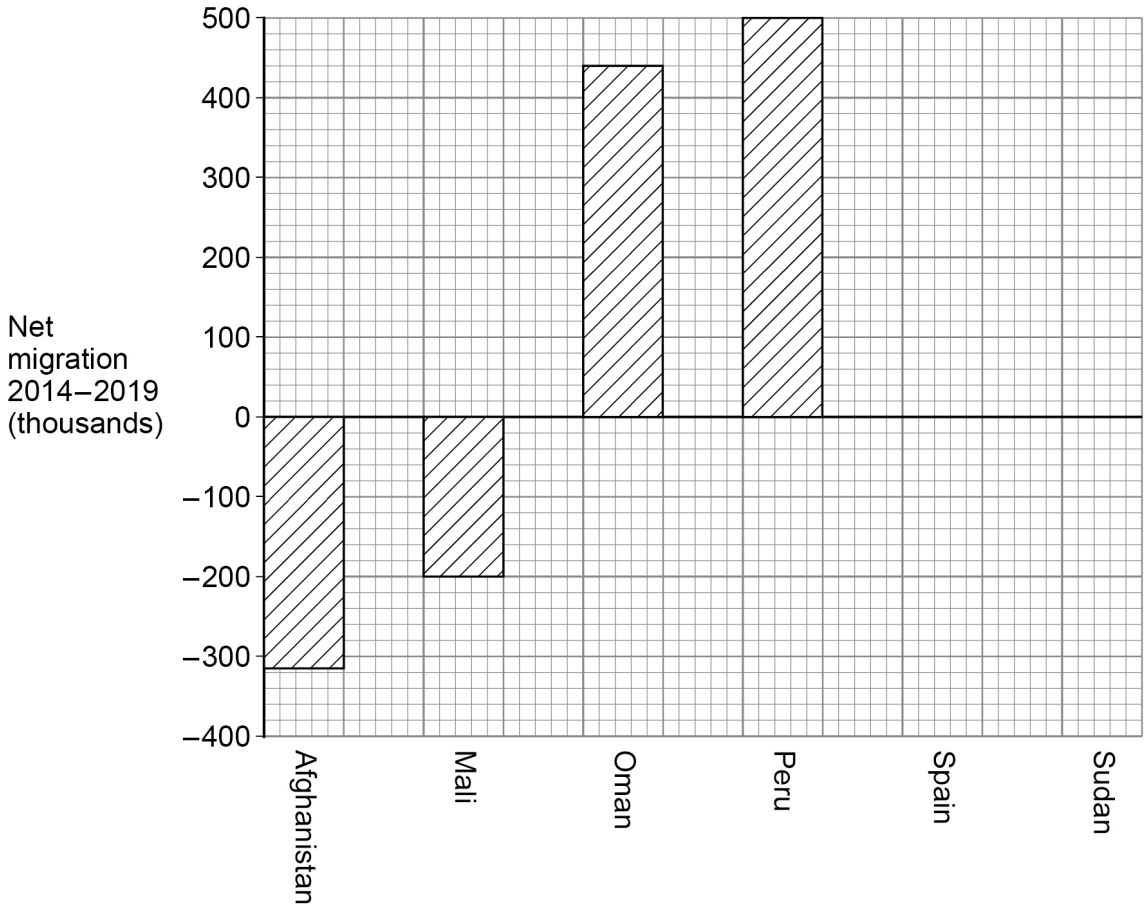
Figure 8 is a graph showing the net migration for selected countries 2014–2019.

0 2 . 3 Complete **Figure 8** below using the following data.

[2 marks]

Country	**Net migration (thousands)**
Spain	+200
Sudan	−250

Figure 8



Net migration = immigrants minus emigrants

Do not write outside the box

0 2 . 4 Suggest how international migration can be a consequence of uneven development.

Use **Figure 7** and **Figure 8**, and your own understanding.

[6 marks]

Extra space

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Question 2 continues on the next page

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ANSWER IN THE SPACES PROVIDED

Do not write outside the box

0 2 . 5 You have studied a LIC/NEE country.

Name of country _____

Shade your chosen country on **Figure 9** below.

[1 mark]

Figure 9

0 2 . 6 Outline **one** way in which your chosen country is regionally important.

[2 marks]

_____

_____

_____

_____

0 2 . 7 Explain how manufacturing industry can stimulate economic development in your chosen country.

[4 marks]

_____

_____

Do not write outside the box

Extra space

Study **Figure 10**, some newspaper headlines about economic change in the UK.

Figure 10

UK manufacturer doubles profits by relocating to Malaysia

Sadness at closure of UK factory making cars since 1905

0 2 . 8 Outline how globalisation has caused economic change in the UK.

Use **Figure 10** and your own understanding.

[3 marks]

Do not write outside the box

Study **Figure 11**, photographs showing current developments in UK road and rail infrastructure.

Figure 11

0 2 . 9 'The economic future of different parts of the UK will be affected by improvements and developments in transport and infrastructure.'

Explain this statement.

Use **Figure 11** and your own knowledge.

[9 marks]

Do not write outside the box

Extra space

30

End of Section B

Turn over for Section C

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Section C The challenge of resource management

Answer **Question 3** and

either Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

Question 3 The challenge of resource management

Study **Figure 12**, a table showing UK gas prices in 2021.

Figure 12

Date	**Gas £ per therm**
8 February 2021	49
18 October 2021	115

0 3 . 1 Calculate the percentage change in gas prices shown in **Figure 12**.

Answer to the nearest whole number.

[2 marks]

Show your working

Percentage change: _____ %

Do not write outside the box

0 3 . 2 Give **one** reason for reduced domestic supplies of gas in the UK.

[1 mark]

0 3 . 3 Why might increasing gas prices mean that renewables become increasingly important?

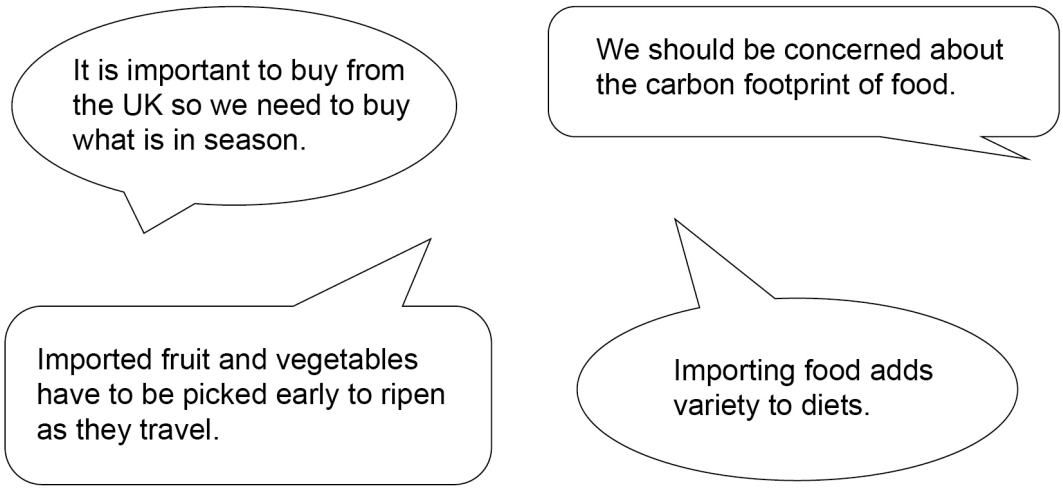
[2 marks]

Question 3 continues on the next page

Do not write outside the box

Study **Figure 13,** some opinions about food in the UK.

Figure 13



0 3 . 4 Discuss how changing demand for food in the UK creates opportunities and challenges.

Use **Figure 13** and your own understanding.

[6 marks]

Do not write outside the box

Extra space

11

End of Question 3

Turn over for the next question

Do not write outside the box

Answer **either** Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

Question 4 Food

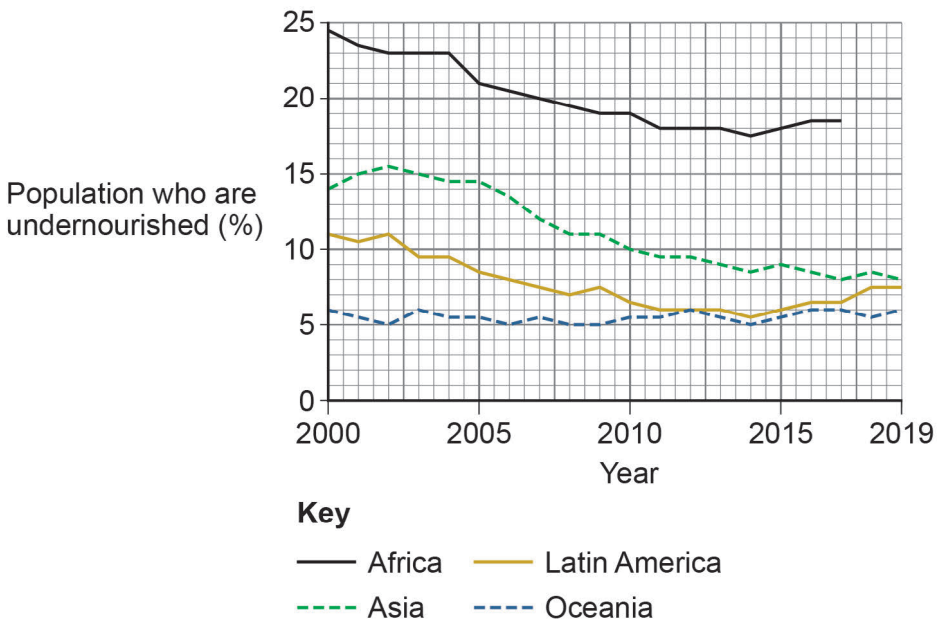
Figure 14 is a graph showing the percentage of population who are undernourished in different regions of the world.

0 4 . 1 Complete **Figure 14** below using the following data for Africa.

[2 marks]

Year	Percentage of population who are undernourished
2018	18.5
2019	19.0

Figure 14



0 4 . 2 Using **Figure 14**, what is the difference in undernourishment between Oceania and Latin America in 2000?

[1 mark]

_____ %

Do not write outside the box

0 4 . 3 Using **Figure 14**, describe the trend for Asia 2000–2019.

[2 marks]

0 4 . 4 Outline the link between increasing economic development and rising food consumption.

[3 marks]

Question 4 continues on the next page

Do not write outside the box

0 4 . 5 Explain how a large-scale agricultural scheme has both advantages and disadvantages.

Use an example you have studied.

[6 marks]

Extra space

14

End of Question 4

If you have answered Question 4, do not answer Question 5 or 6

Do not write outside the box

Turn over for the next question

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ANSWER IN THE SPACES PROVIDED

Do not write outside the box

Question 5 Water

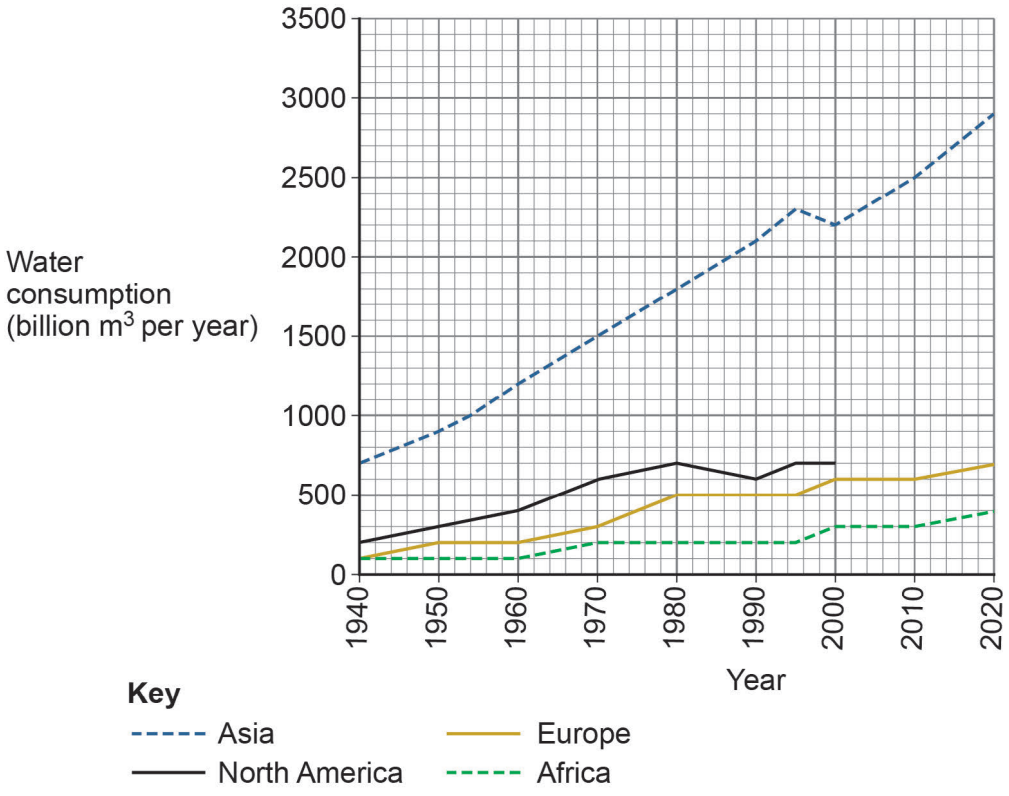
Figure 15 is a graph showing water consumption in different regions of the world.

0 5 . 1 Complete **Figure 15** below using the following data for North America.

[2 marks]

Year	Water consumption (billion m^3 per year)
2010	750
2020	900

Figure 15



0 5 . 2 Using **Figure 15**, what is the difference in water consumption between Europe and Africa in 2020?

[1 mark]

_____ billion m^3 per year

Do not write outside the box

0 5 . 3 Using **Figure 15**, describe the trend for Asia 1940–2020.

[2 marks]

0 5 . 4 Outline the link between increasing economic development and rising water consumption.

[3 marks]

Question 5 continues on the next page

Do not write outside the box

0 5 . 5 Explain how a large-scale water transfer scheme has both advantages and disadvantages.

Use an example you have studied.

[6 marks]

Extra space

14

End of Question 5

If you have answered Question 5, do not answer Question 4 or 6

Do not write outside the box

Turn over for the next question

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Question 6 Energy

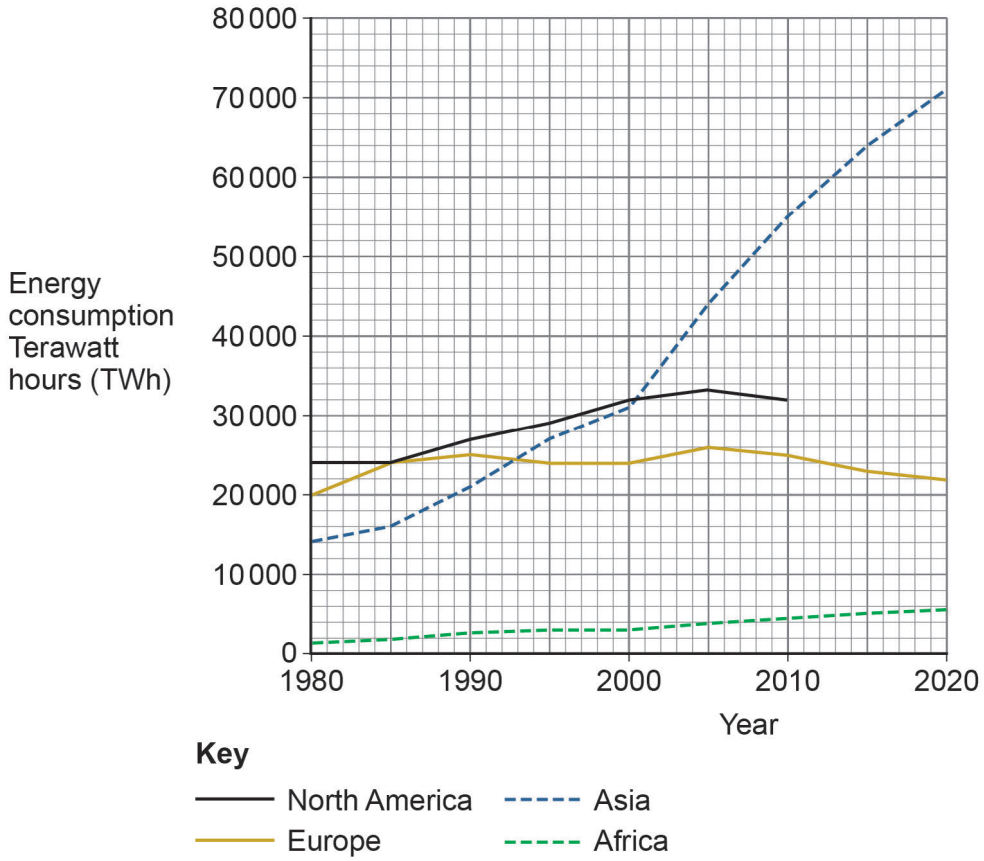
Figure 16 is a graph showing energy consumption in different regions of the world.

0 6 . 1 Complete **Figure 16** below using the following data for North America.

[2 marks]

Year	Energy consumption Terawatt hours (TWh)
2015	32 000
2020	30 000

Figure 16



0 6 . 2 Using **Figure 16**, what is the difference in energy consumption between Europe and Africa in 2020?

[1 mark]

_____ Terawatt hours (TWh)

Do not write outside the box

0 6 . 3 Using **Figure 16**, describe the trend for Asia 1980–2020.

[2 marks]

0 6 . 4 Outline the link between increasing economic development and rising energy consumption.

[3 marks]

Question 6 continues on the next page

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0 6 . 5 Explain how the extraction of a fossil fuel has both advantages and disadvantages.

Use an example you have studied.

[6 marks]

Extra space

14

End of Question 6

If you have answered Question 6, do not answer Question 4 or 5

END OF QUESTIONS

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