



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.

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.

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.

For Examiner's Use

| Question | Mark |
|--------------|------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| TOTAL | |







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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

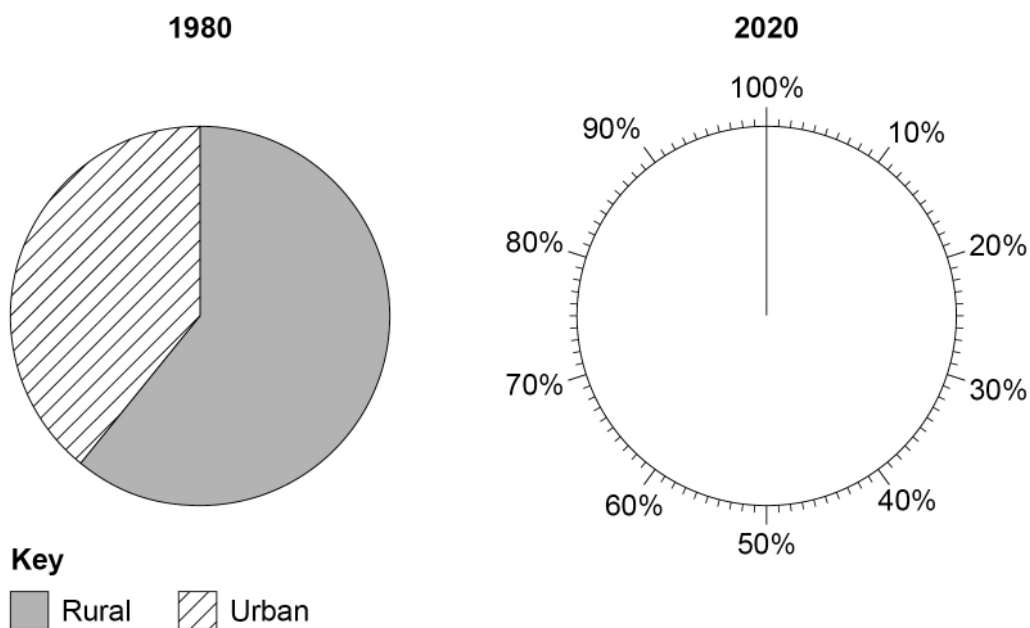
Figure 1 is pie charts showing the percentage of the global population living in rural and urban areas in 1980 and 2020.

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

[2 marks]

| | 1980 | 2020 |
|-------|------|------|
| Rural | 61% | 44% |
| Urban | 39% | 56% |

Figure 1



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



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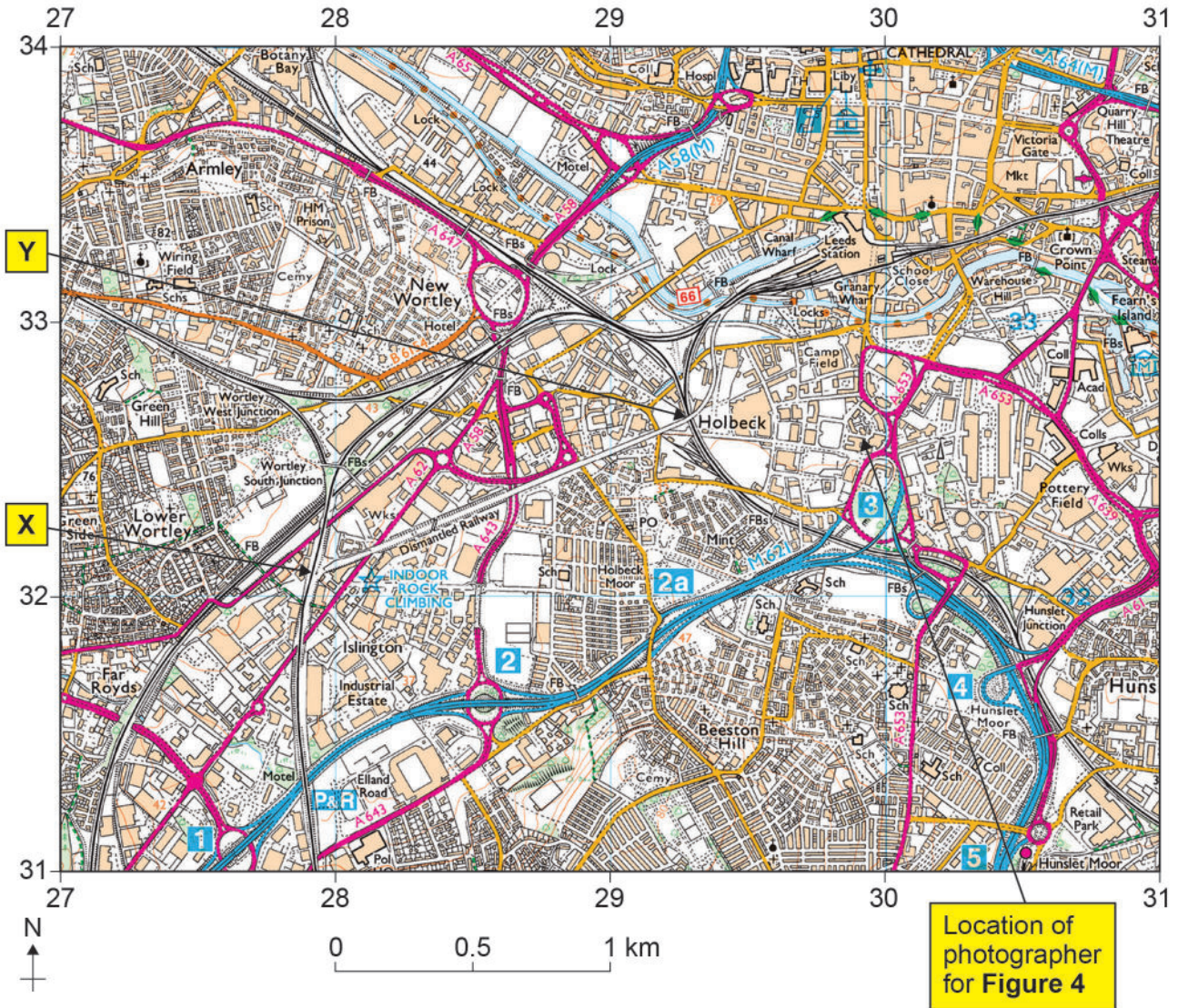
Question 1 continues on the next page



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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



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



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.



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]



Section B The changing economic worldAnswer **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

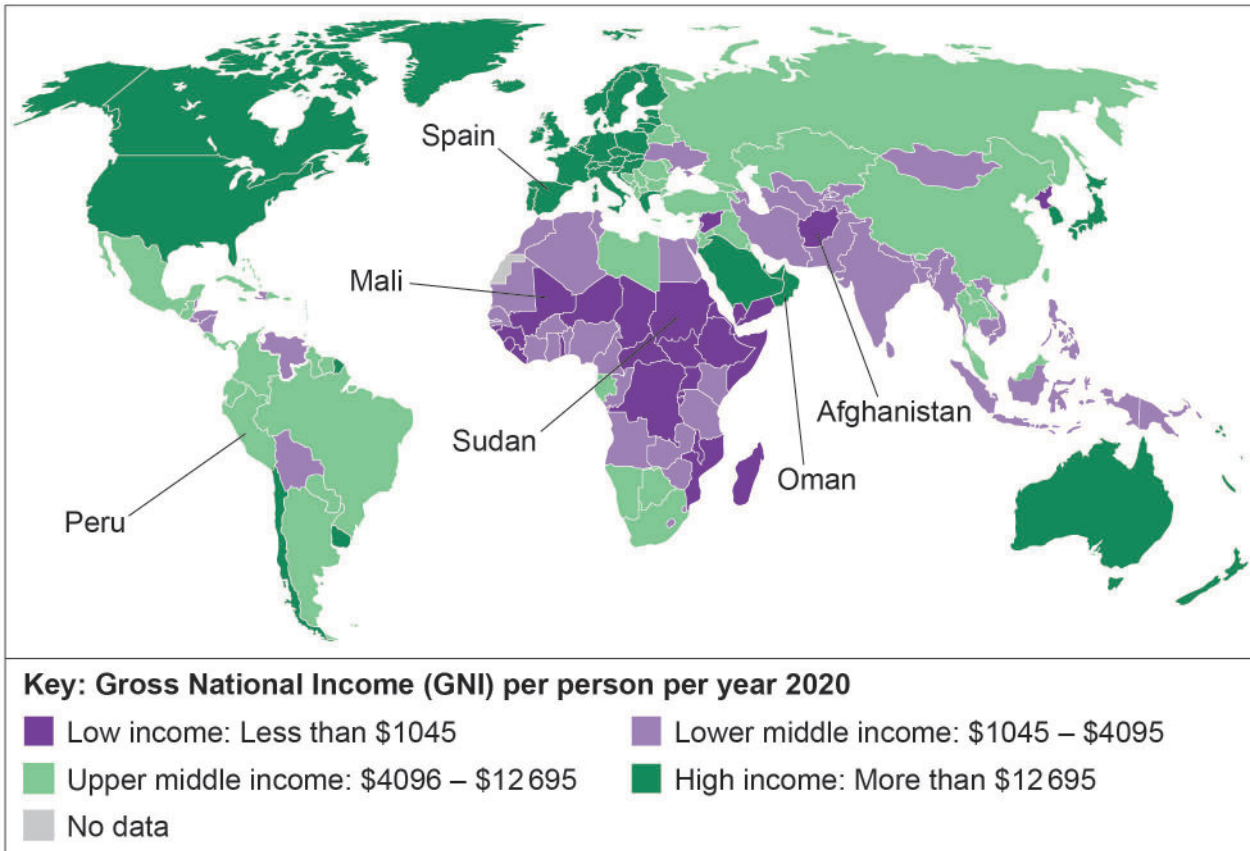
Answer: _____ US\$ per person per year



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

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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.



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

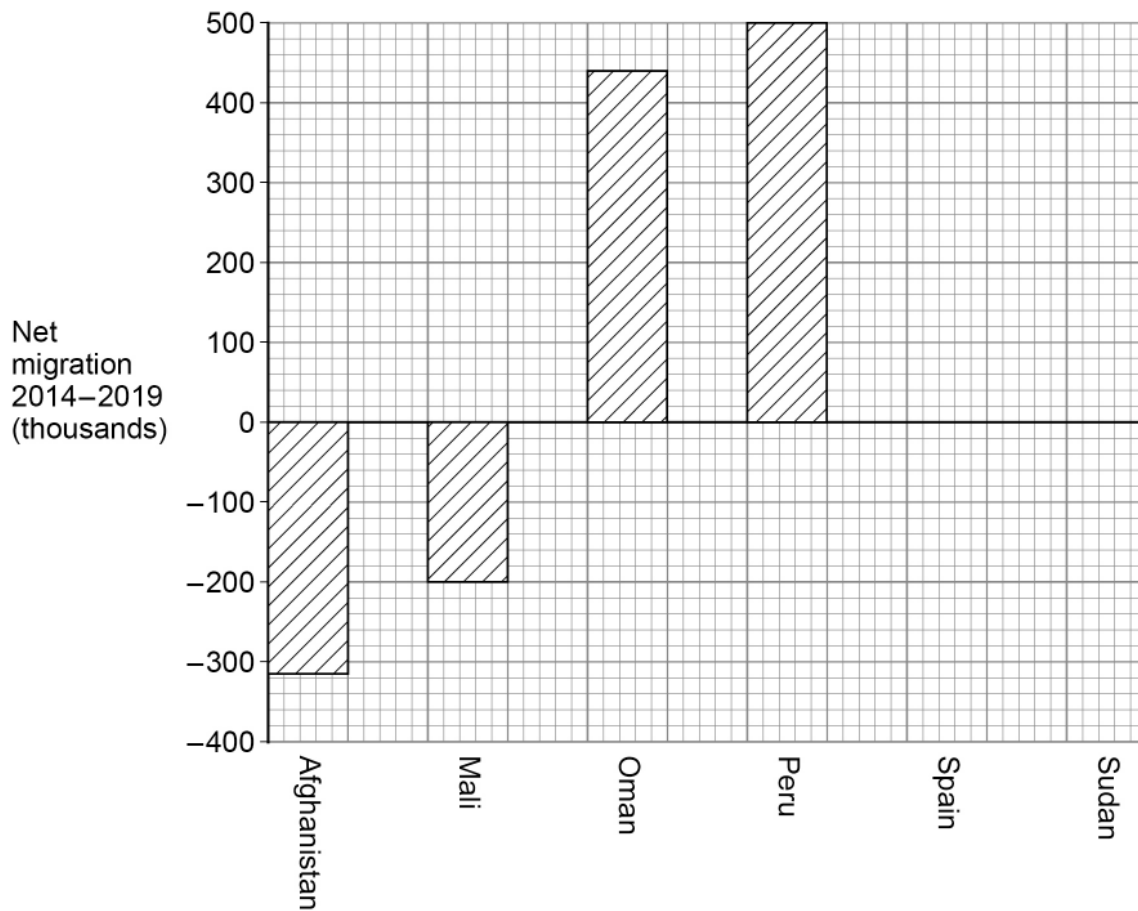
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0 2 3 Complete **Figure 8** below using the following data.

[2 marks]

| Country | Net migration (thousands) |
|---------|---------------------------|
| Spain | +200 |
| Sudan | -250 |

Figure 8



Net migration = immigrants minus emigrants



Question 2 continues on the next page

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ANSWER IN THE SPACES PROVIDED**



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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]



Extra space _____

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

Figure 10



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

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

[3 marks]



Section C The challenge of resource managementAnswer **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: _____ %



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?

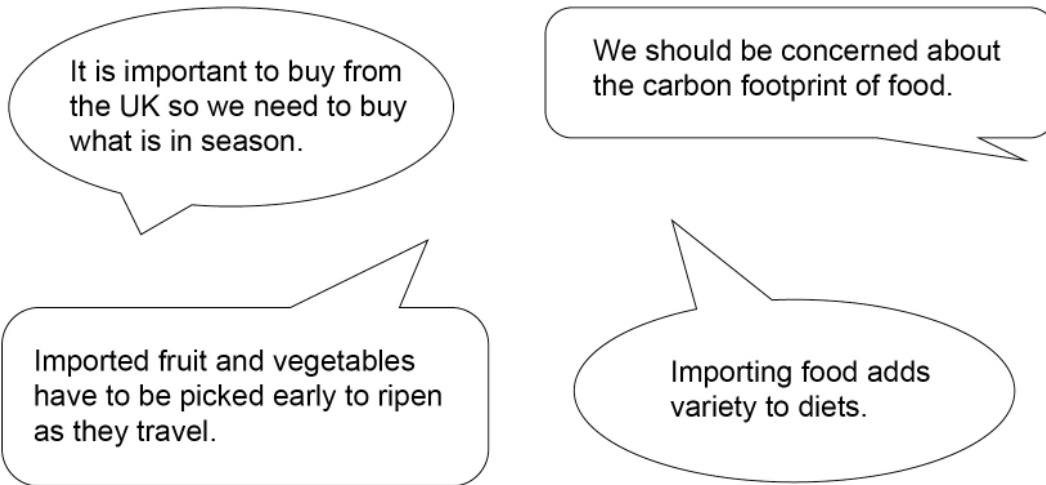
[2 marks]

Question 3 continues on the next page



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]



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Extra space _____

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End of Question 3

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

Question 4 Food

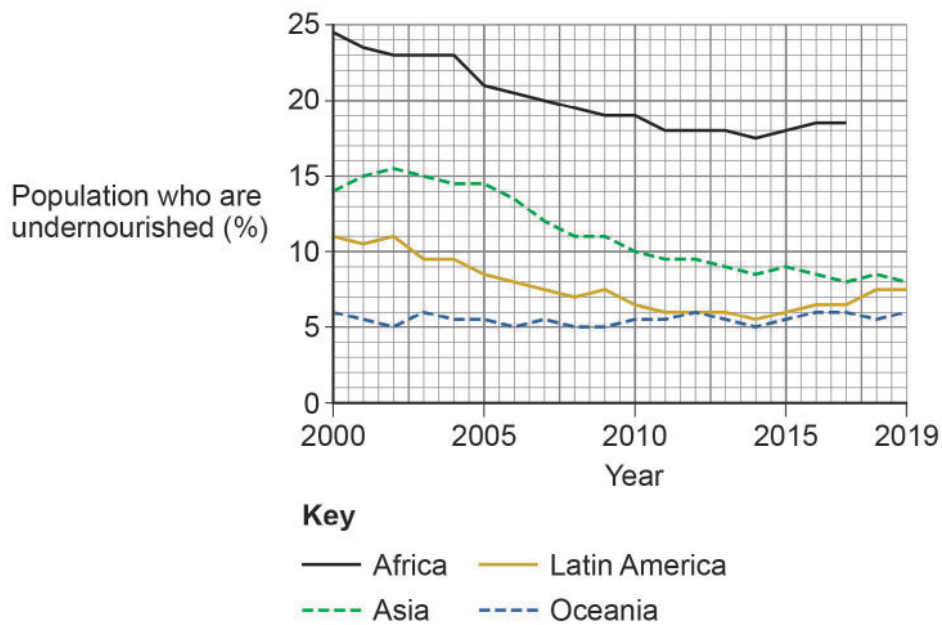
Figure 14 is a graph showing the percentage of population who are undernourished in different regions of the world.

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]

_____ %



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



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Question 5 Water

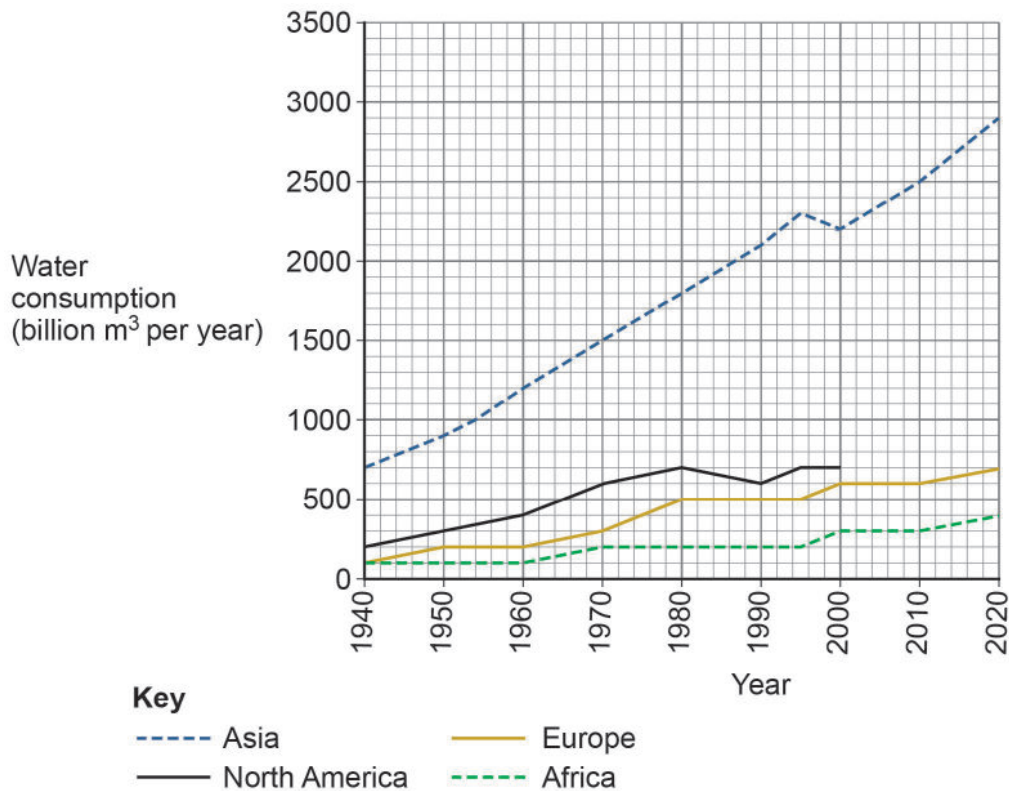
Figure 15 is a graph showing water consumption in different regions of the world.

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 m³ per year



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



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Question 6 Energy

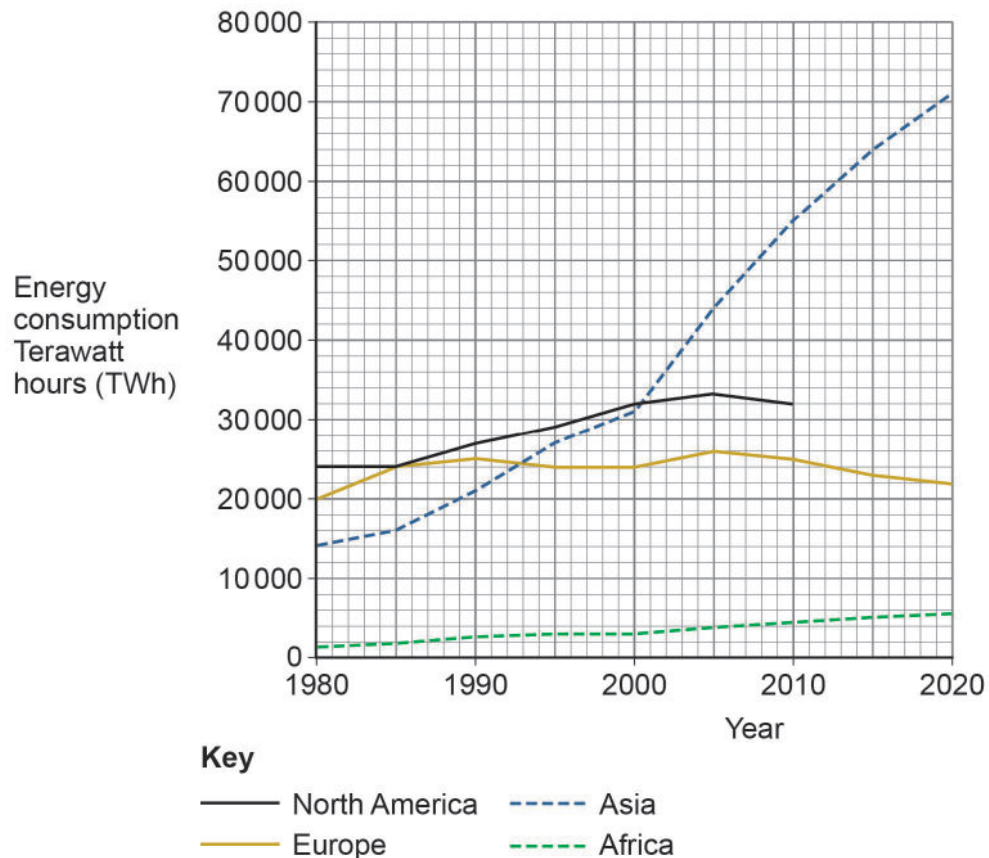
Figure 16 is a graph showing energy consumption in different regions of the world.

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)



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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