

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

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I declare this is my own work.

# GCSE GEOGRAPHY

## Paper 2 Challenges in the Human Environment

Wednesday 3 June 2020

Morning

Time allowed: 1 hour 30 minutes

### Materials

For this paper you must have:

- the OS 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.
- 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	
<b>TOTAL</b>	




J U N 2 0 8 0 3 5 2 0 1

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

0 1 . 1

Which statement completes the following sentence?

A megacity is a city with at least...

Shade **one** circle only.

[1 mark]

A 500 000 people.

☐

B 1 million people.

☐

C 5 million people.

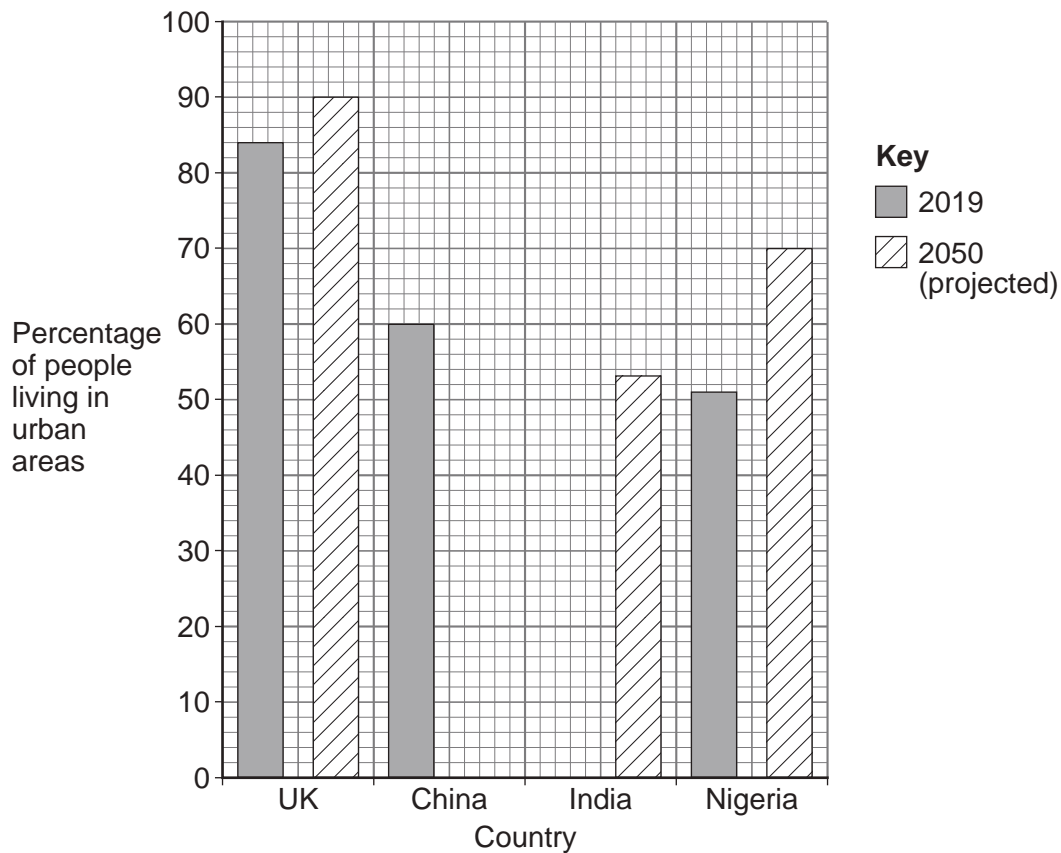
☐

D 10 million people.

☐


Study **Figure 1**, a graph showing the percentage of people living in urban areas in selected countries.

**Figure 1**



0 1 . 2

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

[2 marks]

Country	% living in urban areas in 2019	% living in urban areas in 2050 (projected)
UK	84	90
China	60	80
India	35	53
Nigeria	51	70

0 1 . 3

Calculate the mean percentage of people projected to be living in urban areas in 2050, in the countries shown.

Answer to the nearest whole percentage.

[1 mark]

\_\_\_\_\_ %

**Question 1 continues on the next page**

**Turn over ►**



0 1 . 4

Give **two** pull factors that encourage people to move to urban areas in LICs/NEEs.

[2 marks]

1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

Study **Figure 2**, a photo of a shared toilet in an Indian city.

**Figure 2**



0 1 . 5

Suggest why sanitation systems in cities in LICs/NEEs create challenges.

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

[4 marks]

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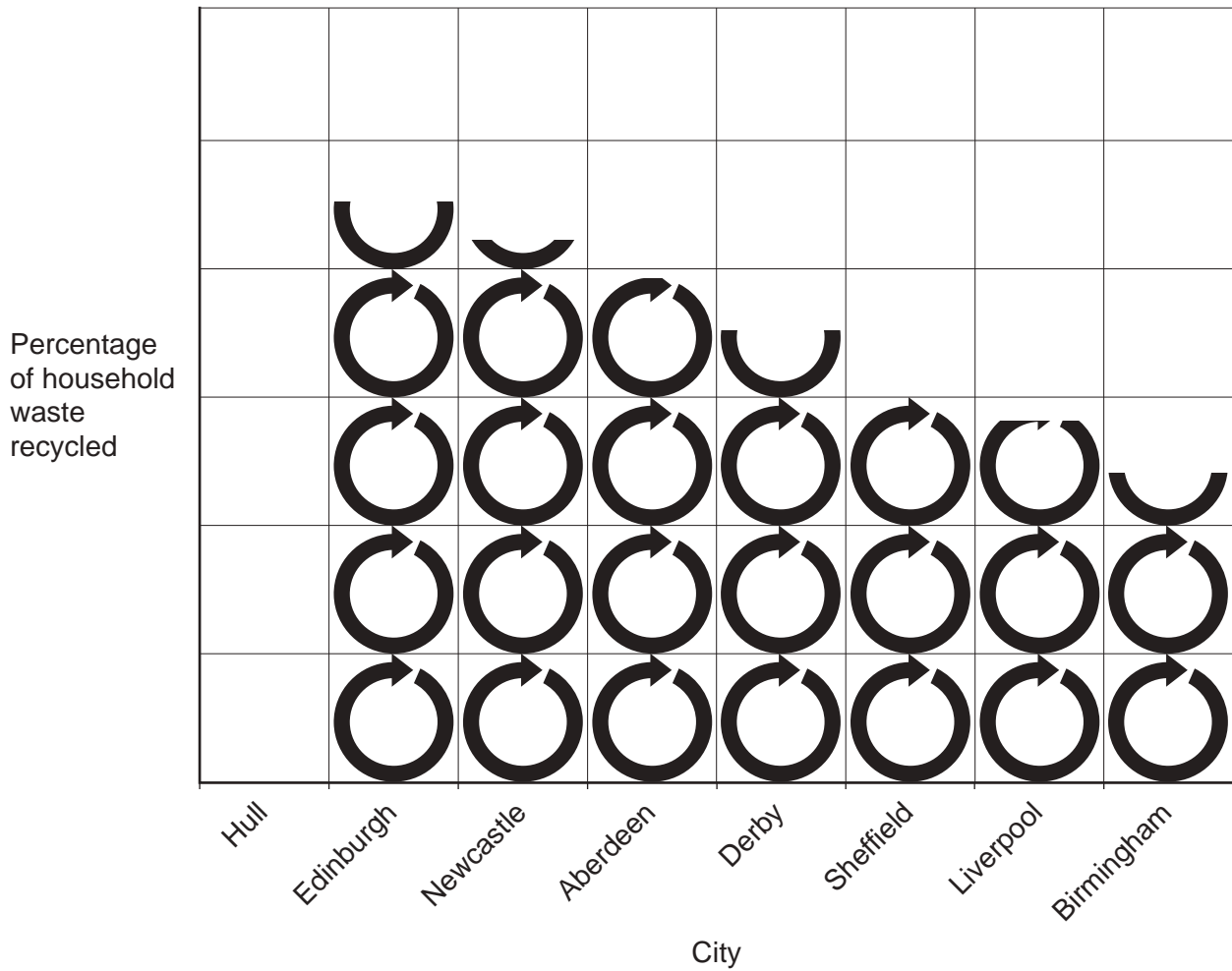
**Question 1 continues on the next page**

**Turn over ►**



Study **Figure 3**, a graph showing the percentage of household waste that was recycled in 2016–17 in selected cities in the UK.

**Figure 3**



**Key**



represents 10% household waste recycled

0 1 . 6

Complete **Figure 3** using the following data.

[1 mark]

City	Percentage of household waste recycled
Hull	50



0 1 . 7

Outline **one** advantage of recycling waste.**[2 marks]**


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0 1 . 8

Assess the importance of managing transport as part of urban sustainability.

**[6 marks]**


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Question 1 continues on the next page

Turn over ►



Study **Figure 4**, a 1:25 000 Ordnance Survey map of part of Hull, a city in the UK.

**Figure 4**



0 1 . 9

What is the 6 figure grid reference for the point marked **X**?

Shade **one** circle only.

[1 mark]

**A** 283098

☐

**B** 098282

☐

**C** 098298

☐

**D** 102283

☐




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What is the straight line distance, to the nearest 100 m, from point **X** to the centre of the rail and bus station at 092288?

Shade **one** circle only.

[1 mark]

**A** 500 m

☐

**B** 700 m

☐

**C** 900 m

☐

**D** 1.1 km

☐

**Question 1 continues on the next page**

**Turn over ►**



*Do not write  
outside the  
box*

Study **Figure 5a** and **Figure 5b** which were taken at point **X** on **Figure 4**.

They show the same location before and after a regeneration scheme.

**Figure 5a**



**Figure 5b**



0	1	.	1	1
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Suggest how a regeneration project can solve urban problems.

Use **Figure 5a** and **Figure 5b** and a UK example you have studied.

**[9 marks]**

**[+3 SPaG marks]**

[illegible]

Extra space

33

**End of Section A**

**Turn over for Section B**

**Turn over ►**



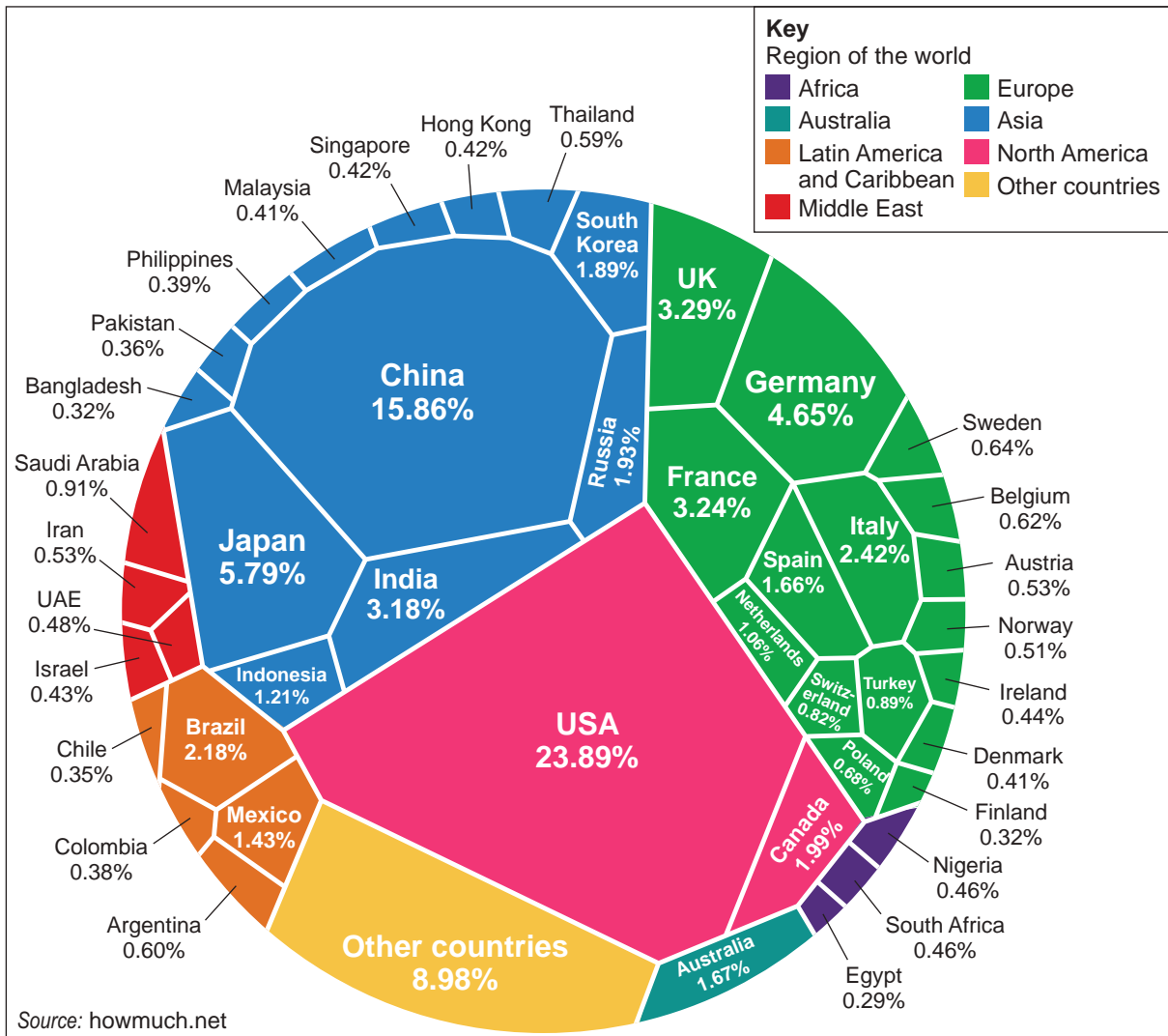
## Section B The changing economic world

Answer **all** questions in this section.

### Question 2 The changing economic world

Study **Figure 6**, a diagram showing countries and their share of world trade.

**Figure 6**



0 2 - 1

Using **Figure 6**, what is Mexico's share of world trade?

[1 mark]

\_\_\_\_\_ %

0 2 - 2

Using **Figure 6**, what is the difference between China and the USA's share of world trade?

[1 mark]

\_\_\_\_\_ %



**0 2 . 3**

Outline the limitations of economic measures of development.

**[3 marks]**

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**0 2 . 4**

Explain how physical and economic factors have caused uneven development.

**[4 marks]**

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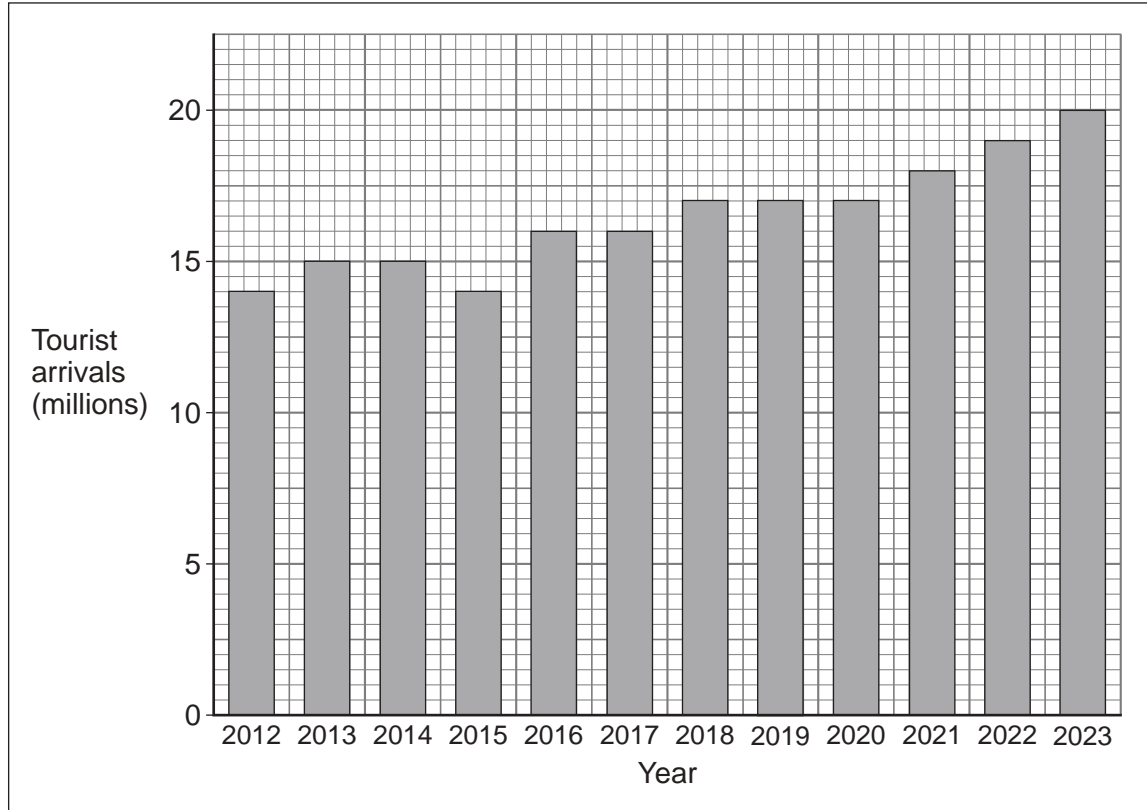
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**Question 2 continues on the next page****Turn over ►**

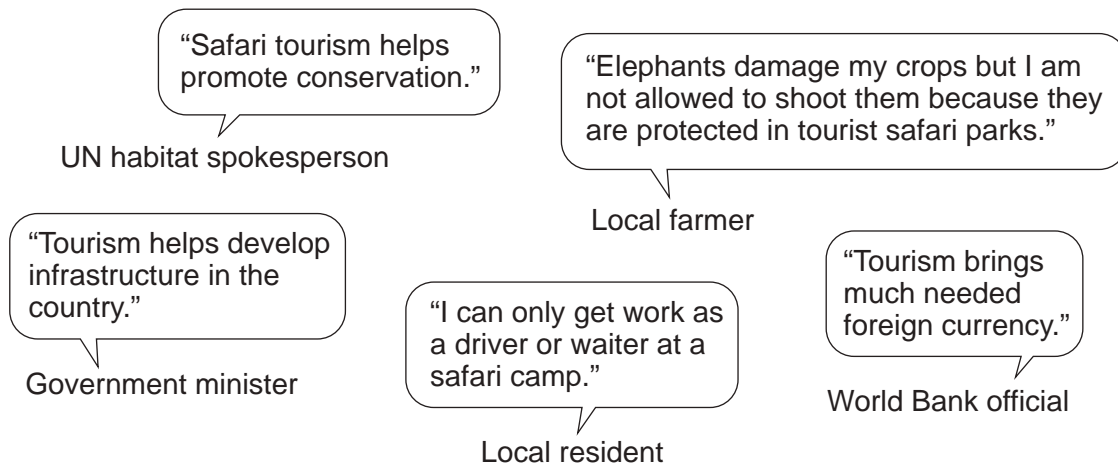
Study **Figure 7a**, a graph of tourist arrivals to South Africa 2012–2023 (projected) and **Figure 7b**, some opinions about tourism in South Africa.

South Africa is a NEE country.

**Figure 7a**



**Figure 7b**



0 2 . 5

Describe the trend shown in **Figure 7a**.

[1 mark]



**[1 mark]**

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**[6 marks]**

[illegible]

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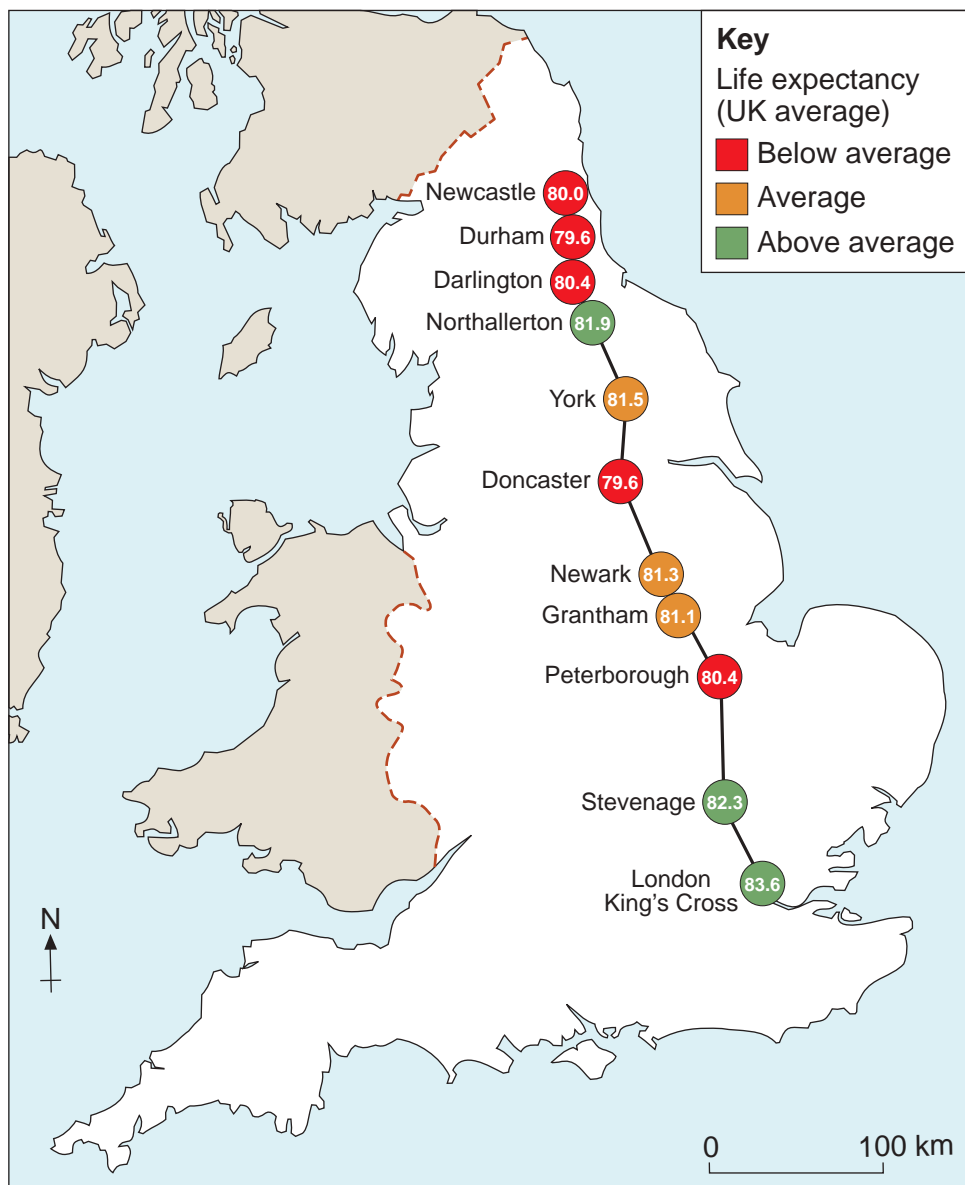
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Study **Figure 8**, showing life expectancy at selected places along the East Coast main railway.

**Figure 8**



0 2 . 8

Calculate the median life expectancy shown in **Figure 8**.

[2 marks]

Show your working

Median =





0	2	.	9
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How might the data in **Figure 8** suggest a north-south divide in the UK?

**[2 marks]**

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**Question 2 continues on the next page**

**Turn over ►**



Evaluate the success or likely success of **one or more** strategies to resolve regional differences in the UK.

[illegible]

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**End of Section B**

**Turn over for Section C**

**Turn over ►**



**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 9**, a graph showing the percentage of income spent on food in selected countries.**Figure 9**

Charts showing Income spent on food in 2016 in various countries cannot be reproduced here due to third-party copyright restrictions.

**0 3 . 1**Using **Figure 9**, suggest how the percentage of income spent on food may influence well-being.**[2 marks]**


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**0 3 . 2**

What is organic farming?

**[1 mark]**

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**0 3 . 3**

Explain why there is a growing demand in the UK for food from LICs.

**[3 marks]**

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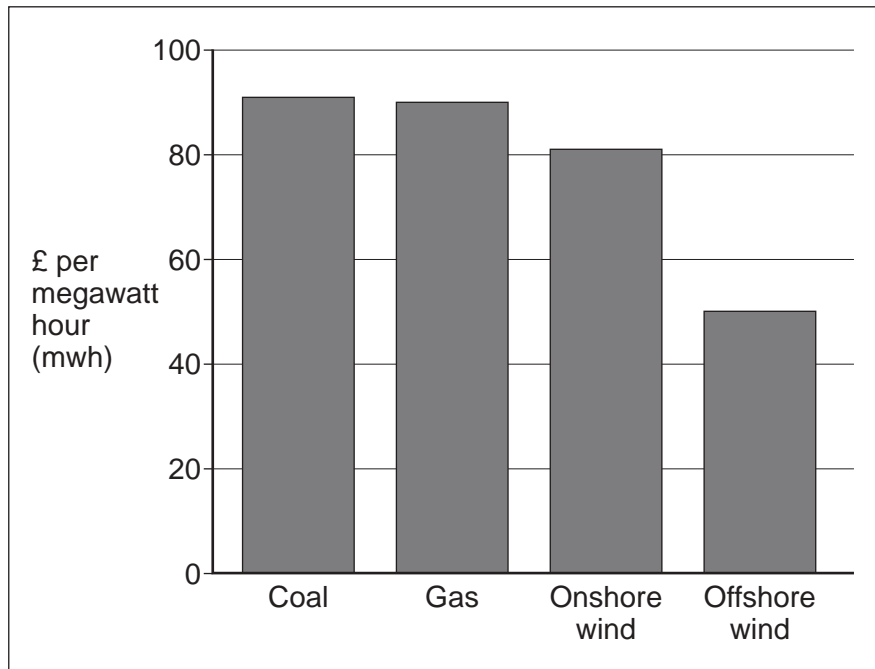
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**Question 3 continues on the next page****Turn over ►**

Study **Figures 10a** and **10b**.

**Figure 10a** shows the cost of producing electricity in the UK by source.  
**Figure 10b** is a photograph showing some issues regarding wind farms.

**Figure 10a**



**Figure 10b**



‘There are economic and environmental issues associated with the exploitation of energy sources.’

**[6 marks]**

[illegible]

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12

**End of Question 3**

**Turn over for the next question**

**Turn over ►**

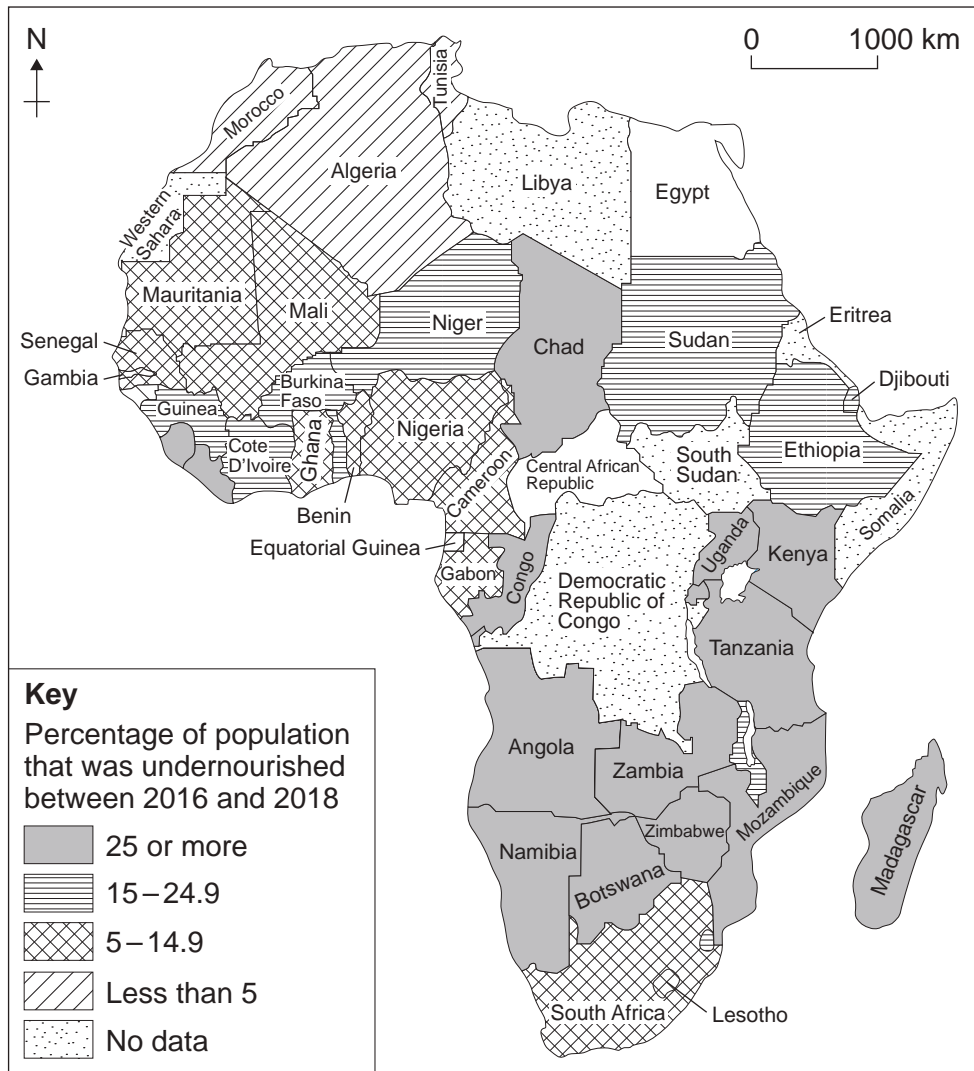


Answer **either** Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

**Question 4      Food**

Study **Figure 11**, a map of Africa showing the percentage of population that was undernourished between 2016 and 2018.

**Figure 11**





0 4 . 1

Complete **Figure 11** using the following data.**[2 marks]**

Country	% of population undernourished
Egypt	less than 5
Central African Republic	25 or more

0 4 . 2

Describe the distribution of the countries which had 5–14.9% of their population undernourished between 2016 and 2018 as shown in **Figure 11**.**[2 marks]**


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0 4 . 3

Suggest **one** reason for differences in undernourishment between countries.**[2 marks]**


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0 4 . 4

What is meant by famine?

**[1 mark]**


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**Question 4 continues on the next page****Turn over ►**

Study **Figures 12a** and **12b**.

**Figure 12a** is a photograph showing The Eagle Street Rooftop Farm in New York, a city in the USA.

**Figure 12b** is a food label.

**Figure 12a**



**Figure 12b**



Suggest how food supplies can be made more sustainable.

**[6 marks]**

[illegible]

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**End of Question 4**

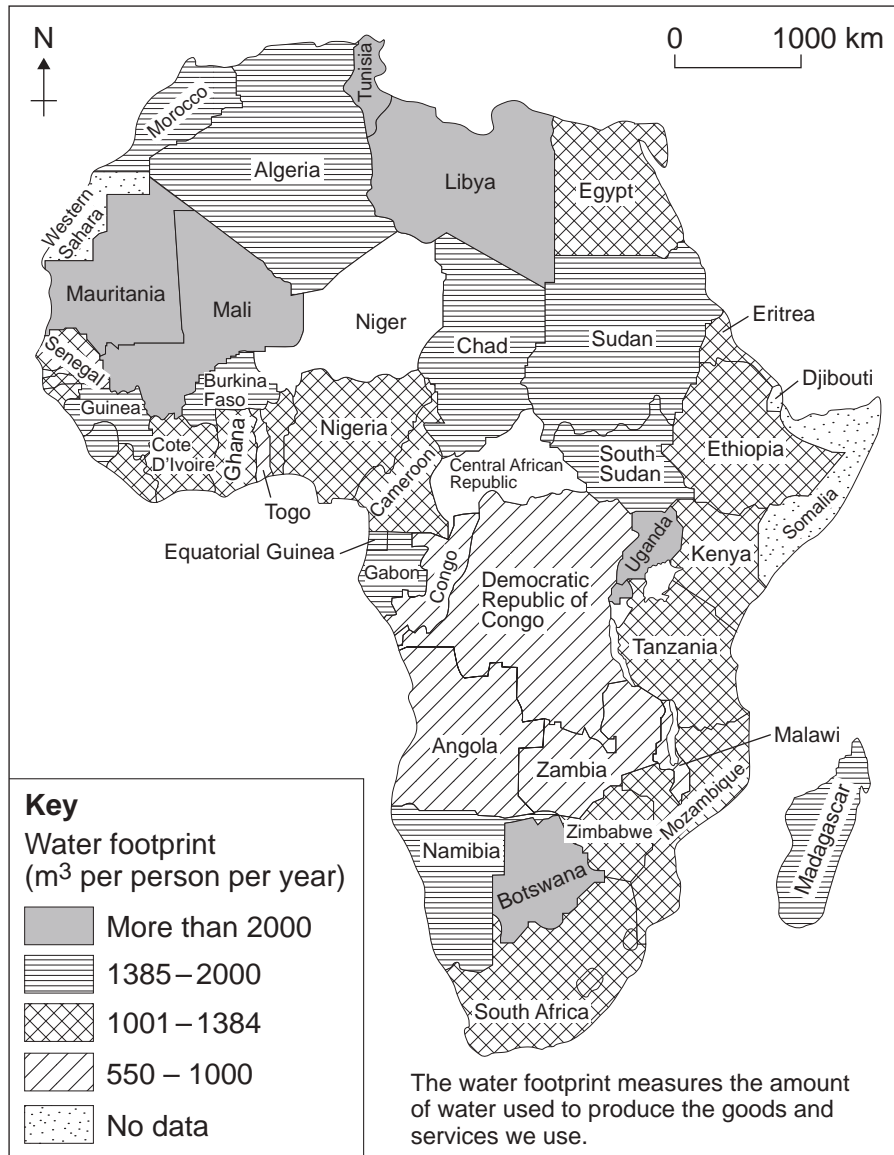
**If you have answered Question 4, do not answer Question 5 or 6**

**Turn over ►**



**Question 5      Water**

Study **Figure 13**, a map of Africa showing the water footprint per person per year.

**Figure 13**

0 5 . 1

Complete **Figure 13** using the following data.

[2 marks]

Country	Water footprint m <sup>3</sup> per person per year
Niger	more than 2000
Central African Republic	1001–1384

0 5 . 2

Describe the distribution of the countries which had a water footprint of 550–1000 m<sup>3</sup> per person per year as shown in **Figure 13**.

[2 marks]

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0 5 . 3

Outline **one** way in which economic development leads to increased water consumption.

[2 marks]

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0 5 . 4

What is meant by water deficit?

[1 mark]

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Question 5 continues on the next page

Turn over ►



Study **Figures 14a** and **14b**.

**Figure 14a** is a typical greywater system.

**Figure 14b** is a photograph of a garden water butt.

**Figure 14a**

Diagram Grey Water System  
cannot be reproduced here due to third-party copyright restrictions.

**Figure 14b**



Suggest how water supplies can be made more sustainable.

Use **Figures 14a** and **14b** and your own understanding.

**[6 marks]**

[illegible]

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**End of Question 5**

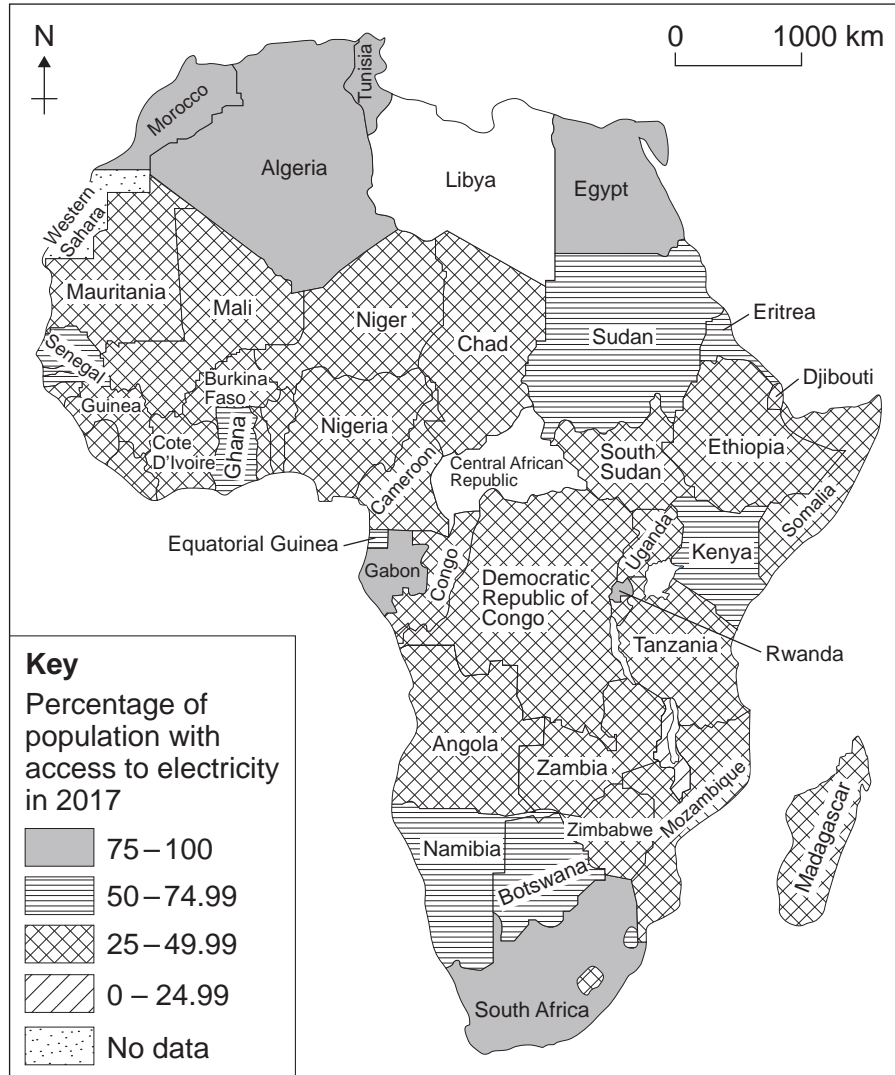
**If you have answered Question 5, do not answer Question 4 or 6**

**Turn over ►**



**Question 6      Energy**

Study **Figure 15**, a map of Africa showing the percentage of population with access to electricity in 2017.

**Figure 15**



0 6 . 1

Complete **Figure 15** using the following data.**[2 marks]**

Country	% of population with access to electricity
Libya	50–74.99
Central African Republic	25–49.99

0 6 . 2

Describe the distribution of the countries which had 75–100% access to electricity as shown in **Figure 15**.**[2 marks]**


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0 6 . 3

Outline **one** way in which economic development leads to increased energy consumption.**[2 marks]**


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0 6 . 4

What is meant by energy deficit?

**[1 mark]**


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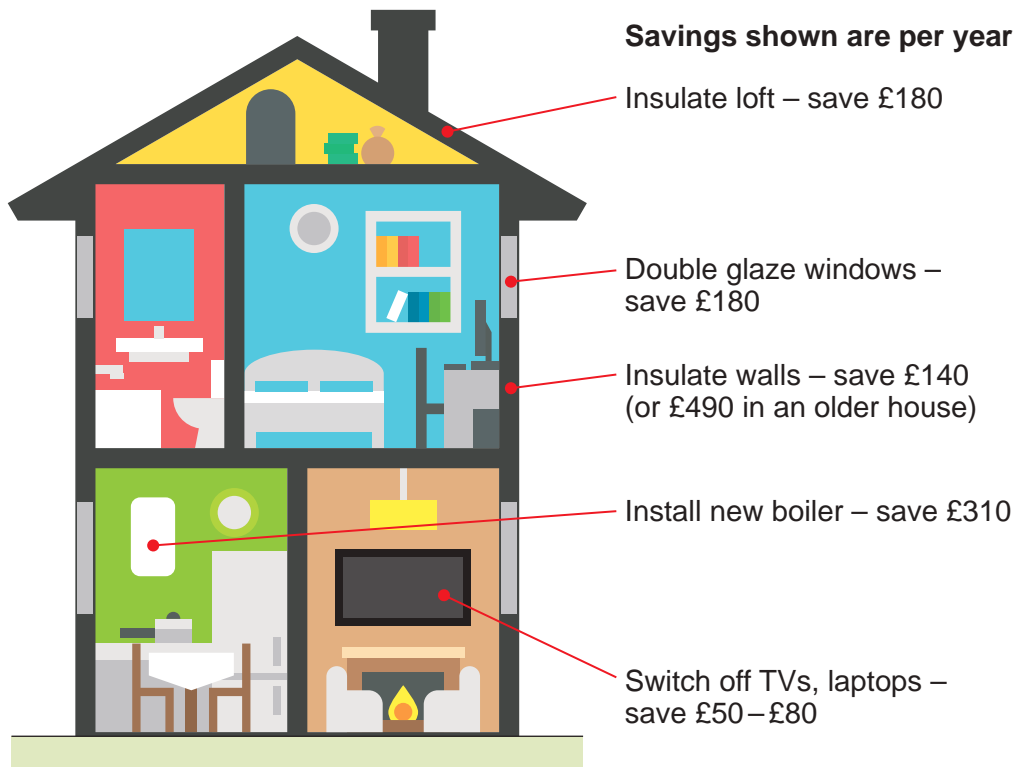
**Question 6 continues on the next page****Turn over ►**

Study **Figures 16a** and **16b**.

**Figure 16a** is a diagram showing energy conservation in the home.

**Figure 16b** is a photograph of an electric vehicle charging point.

**Figure 16a**



**Figure 16b**



Suggest how energy use can be made more sustainable.

Use **Figures 16a** and **16b** and your own understanding.

**[6 marks]**

[illegible]

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

**END OF QUESTIONS**



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ANSWER IN THE SPACES PROVIDED**

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