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AQA

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 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	
TOTAL	

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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**

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. ⬭

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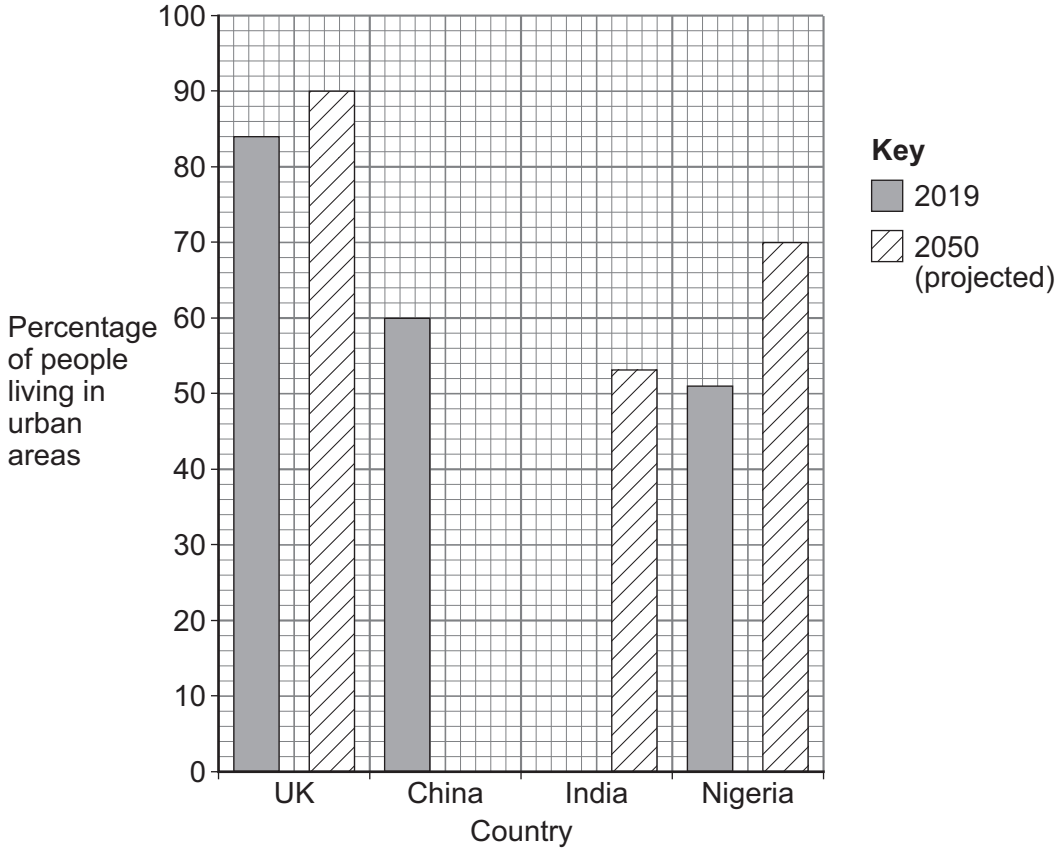
Study **Figure 1**, a graph showing the percentage of people living in urban areas in selected countries.

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

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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

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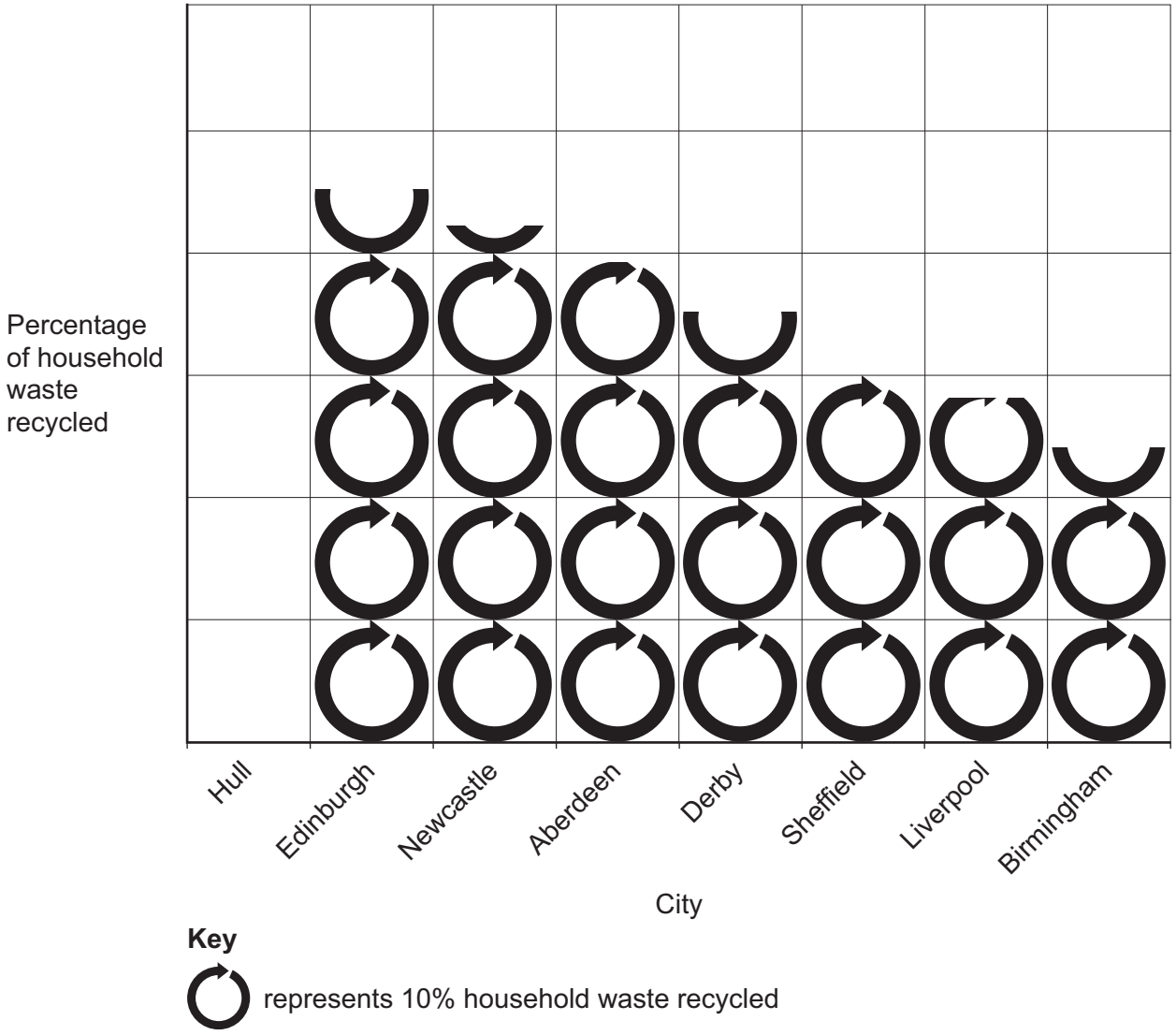
Study **Figure 3**, a graph showing the percentage of household waste that was recycled in 2016–17 in selected cities in the UK.

Figure 3



0 1 . 6 Complete **Figure 3** using the following data.

[1 mark]

City	Percentage of household waste recycled
Hull	50

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0 1 . 7 Outline **one** advantage of recycling waste.

[2 marks]

0 1 . 8 Assess the importance of managing transport as part of urban sustainability.

[6 marks]

Extra space

Question 1 continues on the next page

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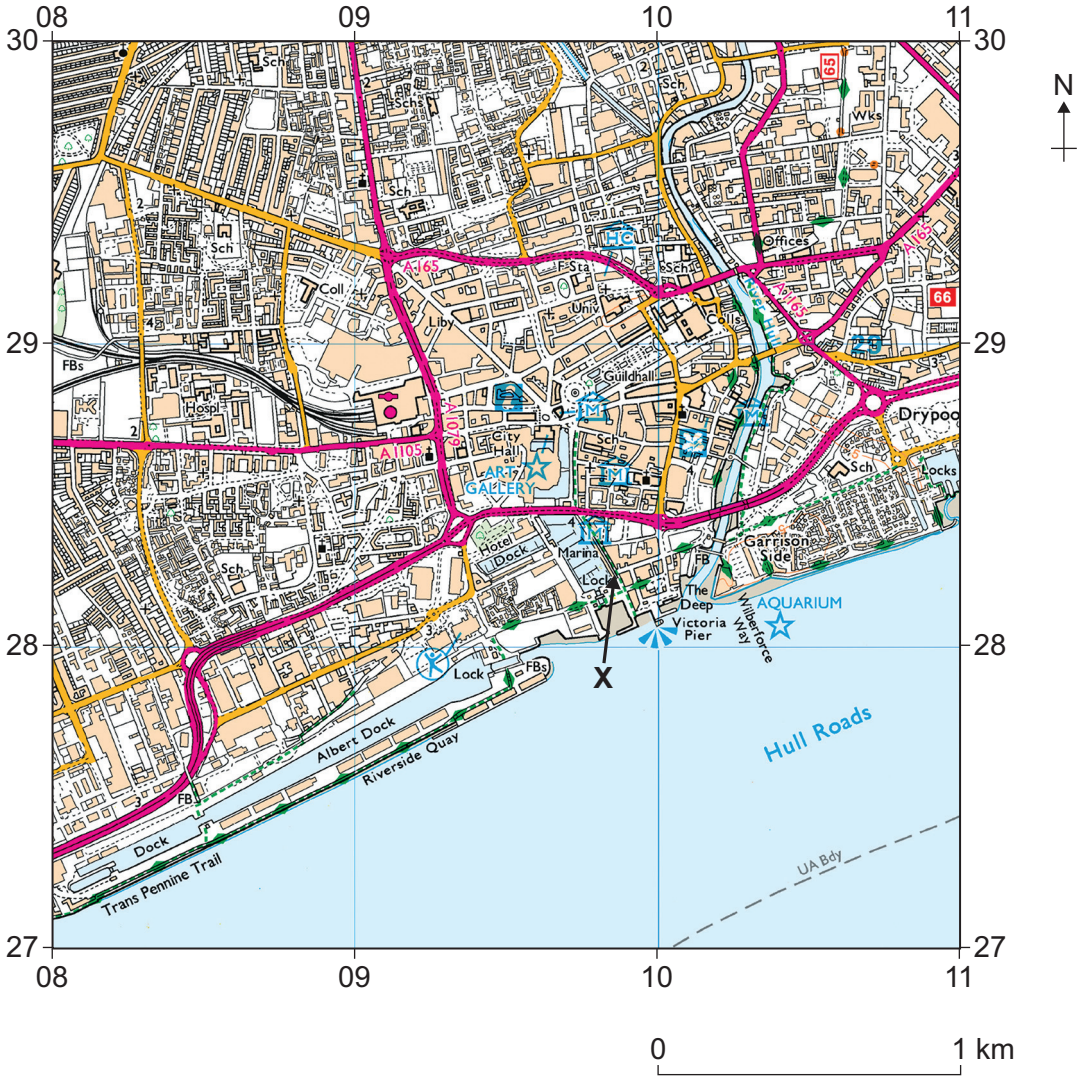
Study **Figure 4**, a 1:25 000 Ordnance Survey map of part of Hull, a city in the UK.

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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0 1 . 1 0 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

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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 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]

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33

End of Section A

Turn over for Section B

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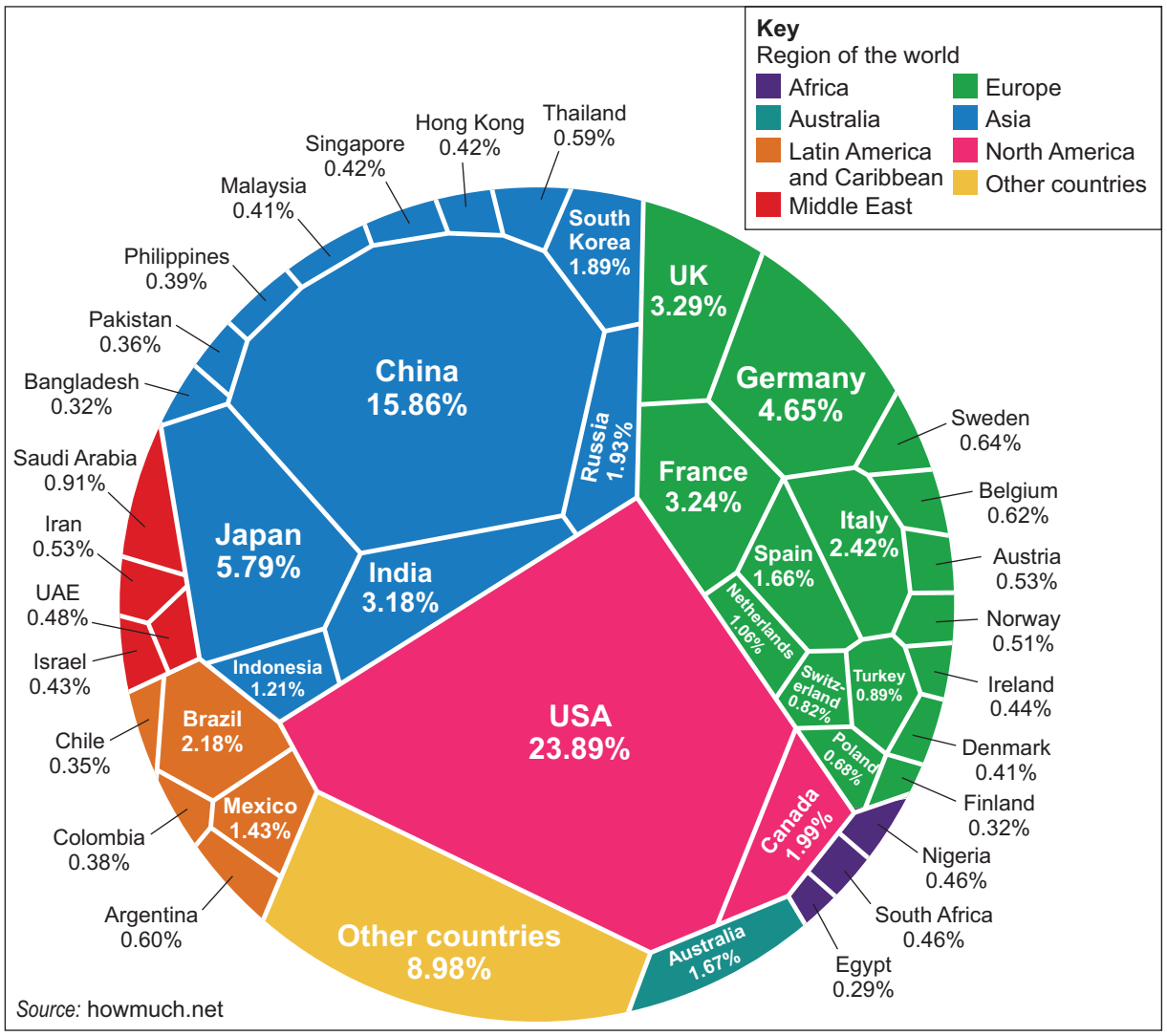
Section B The changing economic world

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]

_____ %

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0 2 . 3 Outline the limitations of economic measures of development.

[3 marks]

0 2 . 4 Explain how physical and economic factors have caused uneven development.

[4 marks]

Extra space

Question 2 continues on the next page

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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

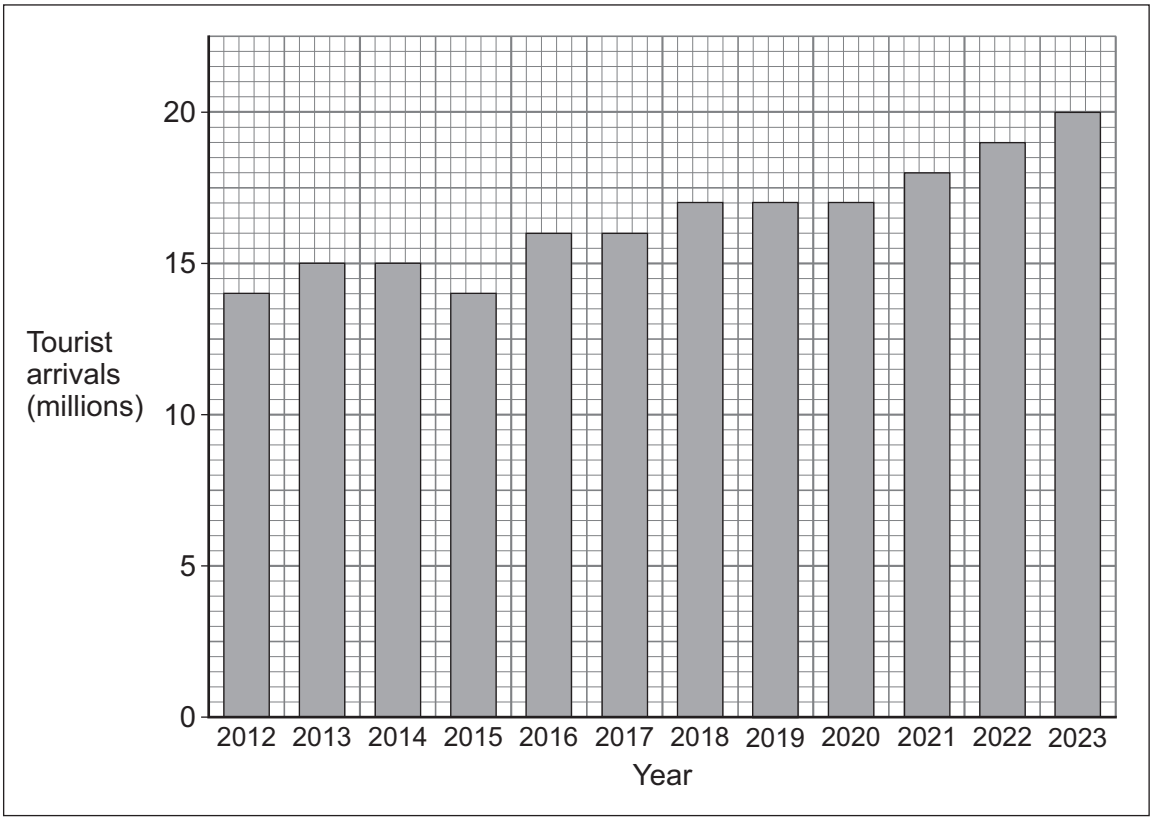

Figure 7b

"Safari tourism helps promote conservation."
UN habitat spokesperson

"Elephants damage my crops but I am not allowed to shoot them because they are protected in tourist safari parks."
Local farmer

"Tourism helps develop infrastructure in the country."
Government minister

"I can only get work as a driver or waiter at a safari camp."
Local resident

"Tourism brings much needed foreign currency."
World Bank official

0 2 . 5 Describe the trend shown in **Figure 7a**.

[1 mark]

_____

_____

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0 2 . 6 Using **Figure 7b**, state **one** benefit of tourism to South Africa's economy.

[1 mark]

0 2 . 7 Tourism is an effective way of reducing the development gap.

Do you agree?

Use **Figure 7a** and **Figure 7b** and an example you have studied to explain your answer.

[6 marks]

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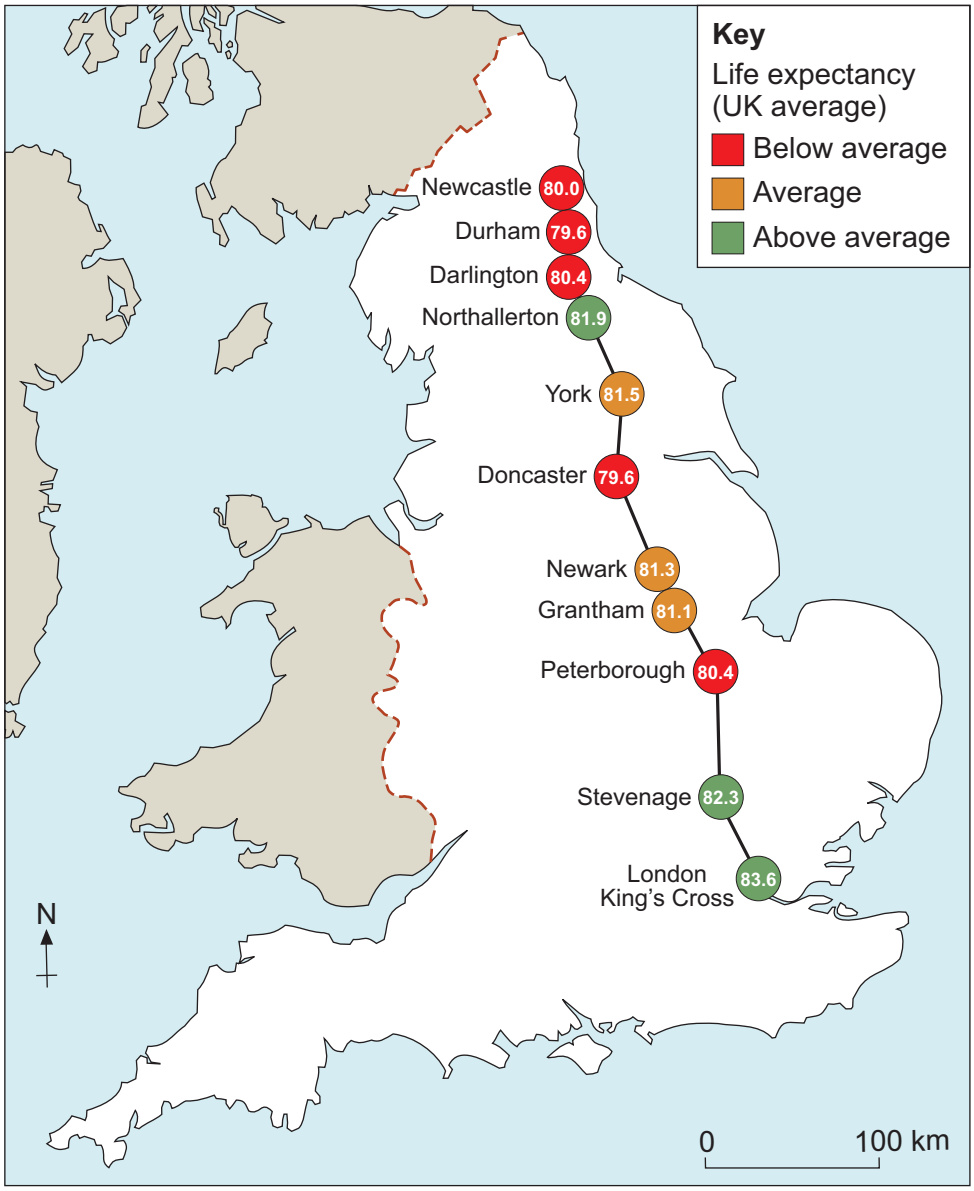
Study **Figure 8**, showing life expectancy at selected places along the East Coast main railway.

Figure 8



0 2 . 8 Calculate the median life expectancy shown in **Figure 8**.

[2 marks]

Show your working

Median =

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

[2 marks]

_____

_____

_____

_____

Question 2 continues on the next page

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0 2 . 1 0 Evaluate the success or likely success of **one or more** strategies to resolve regional differences in the UK.

[9 marks]

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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 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]

_____

0 3 . 3 Explain why there is a growing demand in the UK for food from LICs.

[3 marks]

_____

_____

_____

_____

_____

_____

Question 3 continues on the next page

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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

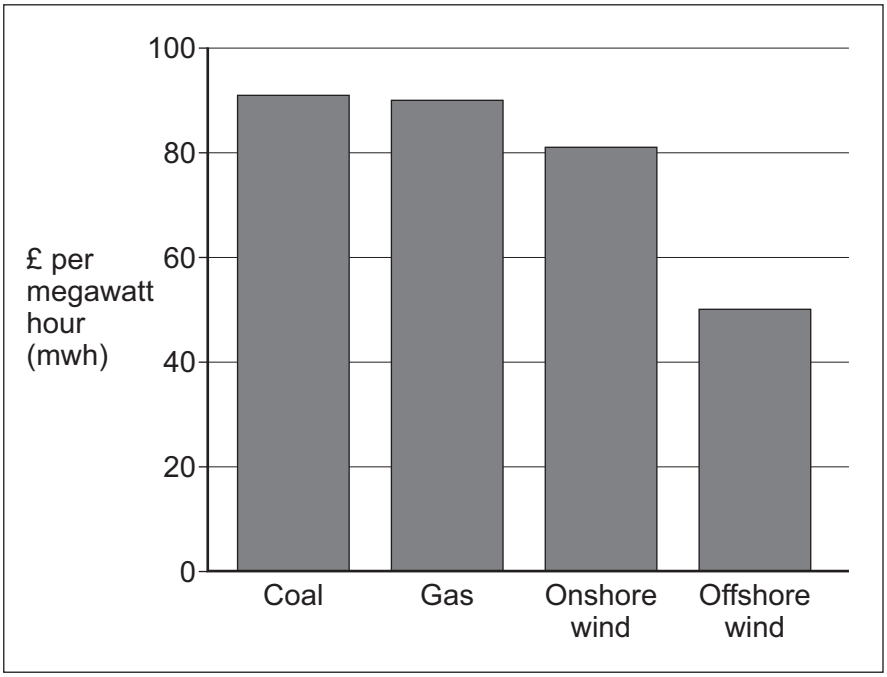

Figure 10b

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0 3 . 4 'There are economic and environmental issues associated with the exploitation of energy sources.'

Use evidence from **Figure 10a** and **Figure 10b** to explain this statement.

[6 marks]

Extra space

12

End of Question 3

Turn over for the next question

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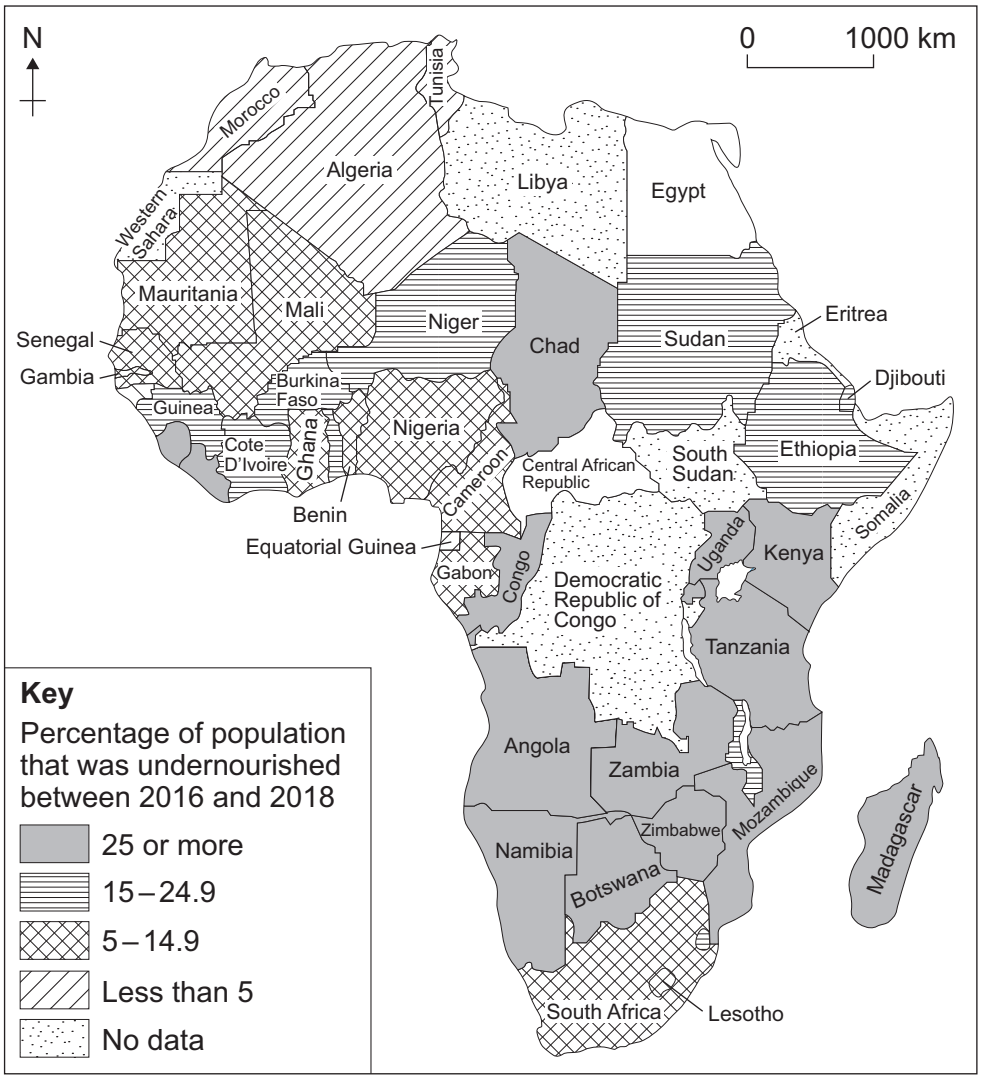
Answer **either** Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

Question 4 **Food**

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

Figure 11



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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]

_____

_____

_____

_____

0 4 . 3 Suggest **one** reason for differences in undernourishment between countries.

[2 marks]

_____

_____

_____

_____

0 4 . 4 What is meant by famine?

[1 mark]

_____

_____

Question 4 continues on the next page

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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

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0 4 . 5 Suggest how food supplies can be made more sustainable.

Use **Figures 12a** and **12b** and your own understanding.

[6 marks]

Extra space

13

End of Question 4

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

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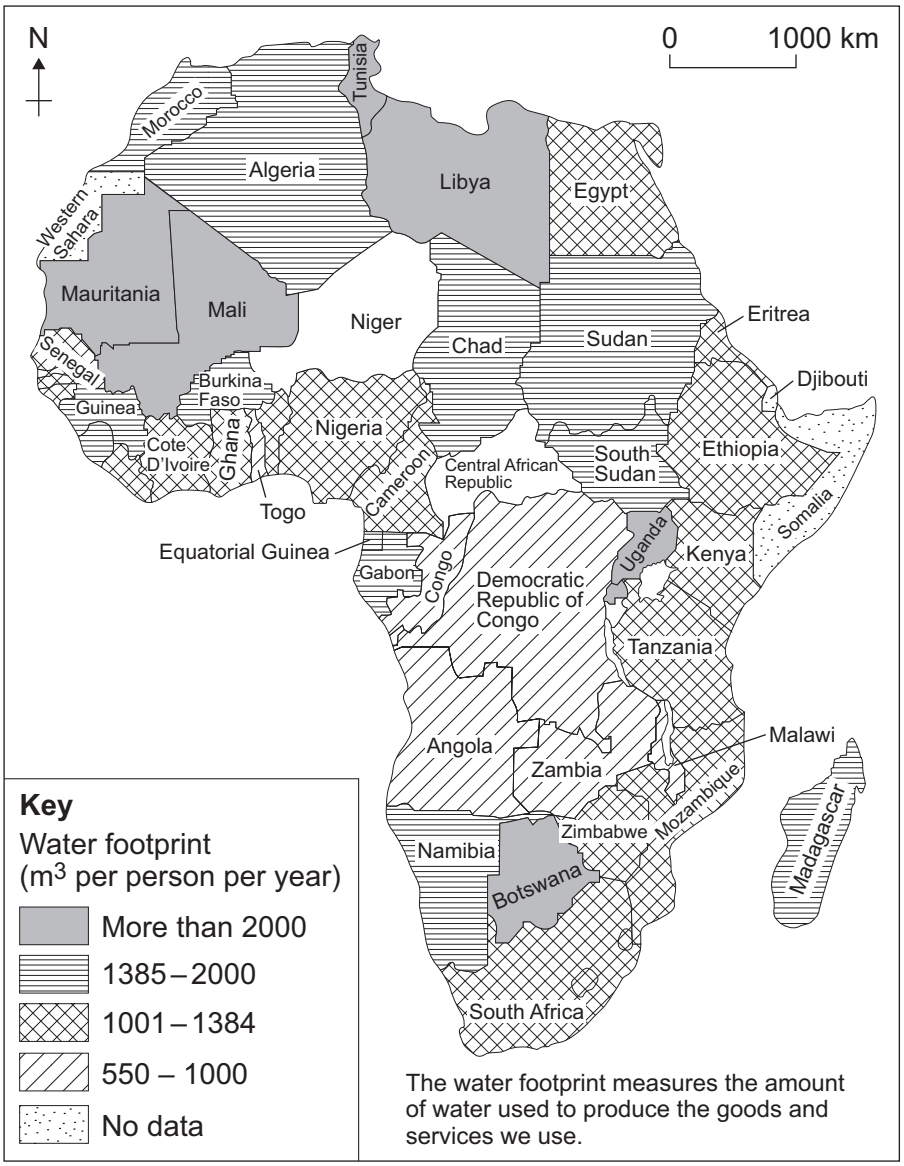
Question 5 **Water**

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

Figure 13



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0 5 . 1 Complete **Figure 13** using the following data.

[2 marks]

Country	**Water footprint m^3 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^3 per person per year as shown in **Figure 13**.

[2 marks]

_____

_____

_____

_____

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]

_____

_____

Question 5 continues on the next page

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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

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0 5 . 5 Suggest how water supplies can be made more sustainable.

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

[6 marks]

Extra space

13

End of Question 5

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

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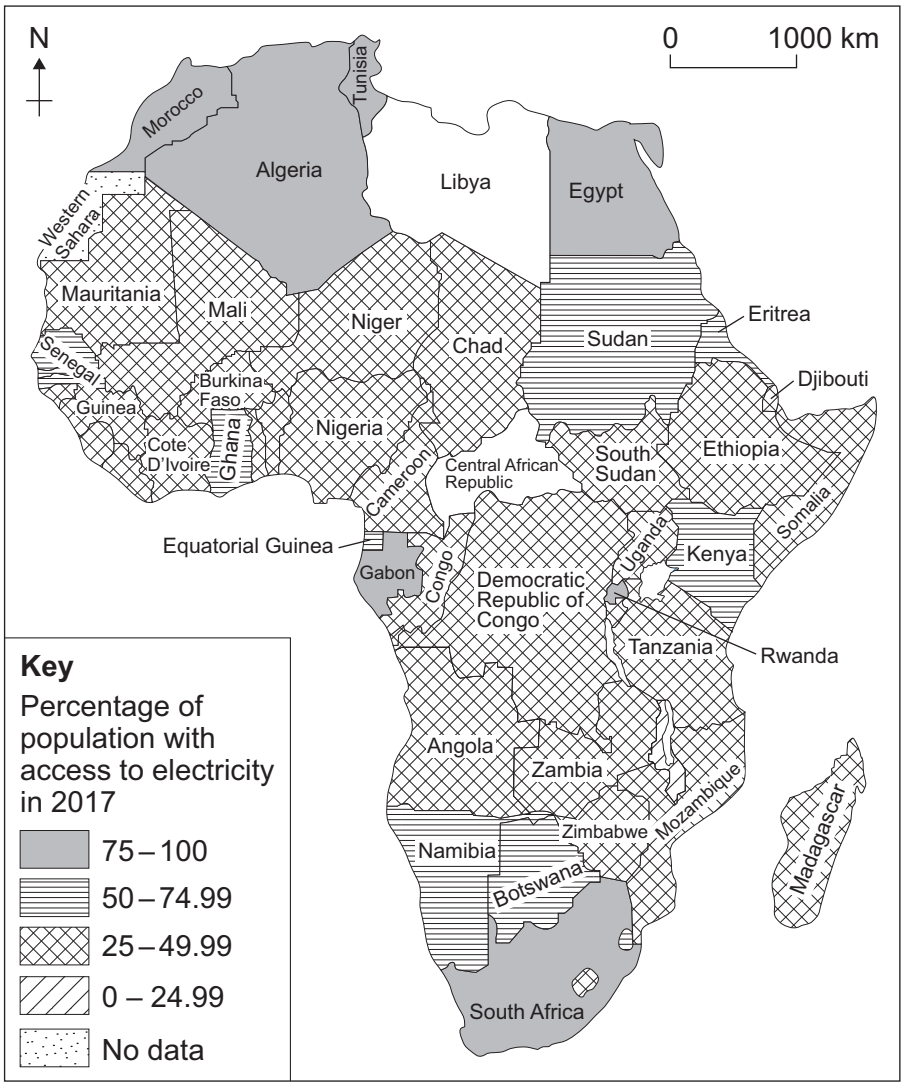
Question 6 **Energy**

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

Figure 15



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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]

_____

_____

_____

_____

0 6 . 3 Outline **one** way in which economic development leads to increased energy consumption.

[2 marks]

_____

_____

_____

_____

0 6 . 4 What is meant by energy deficit?

[1 mark]

_____

_____

Question 6 continues on the next page

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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

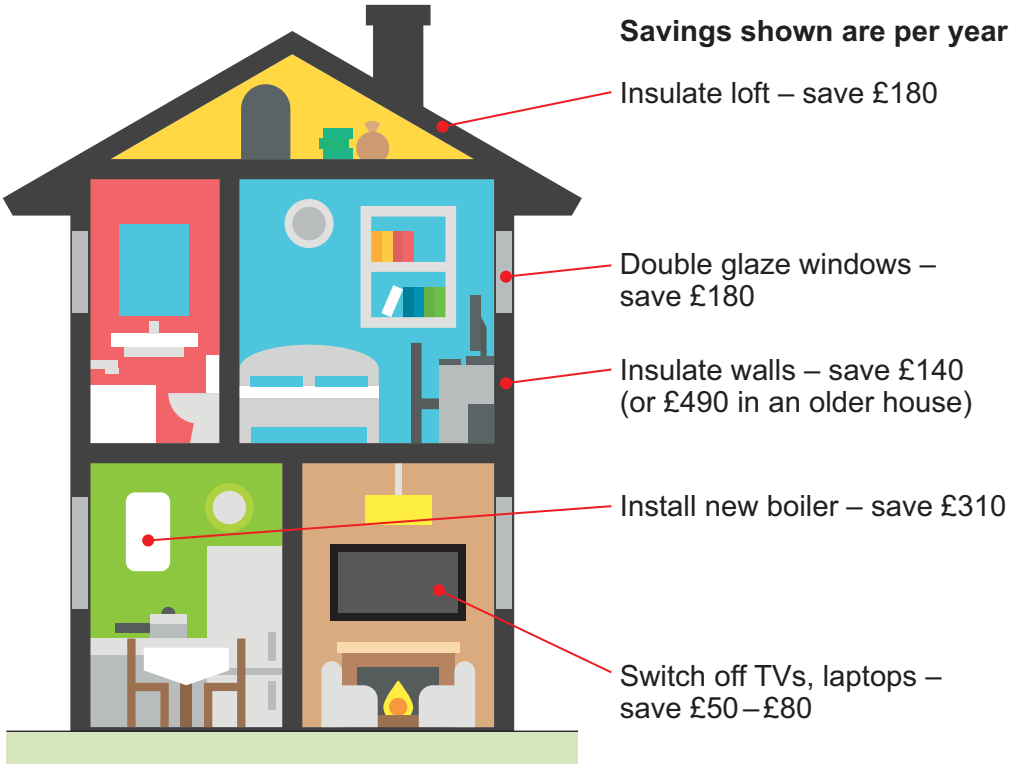

Figure 16b

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0 6 . 5 Suggest how energy use can be made more sustainable.

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

[6 marks]

Extra space

13

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

END OF QUESTIONS

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