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.

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

- 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.

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. 

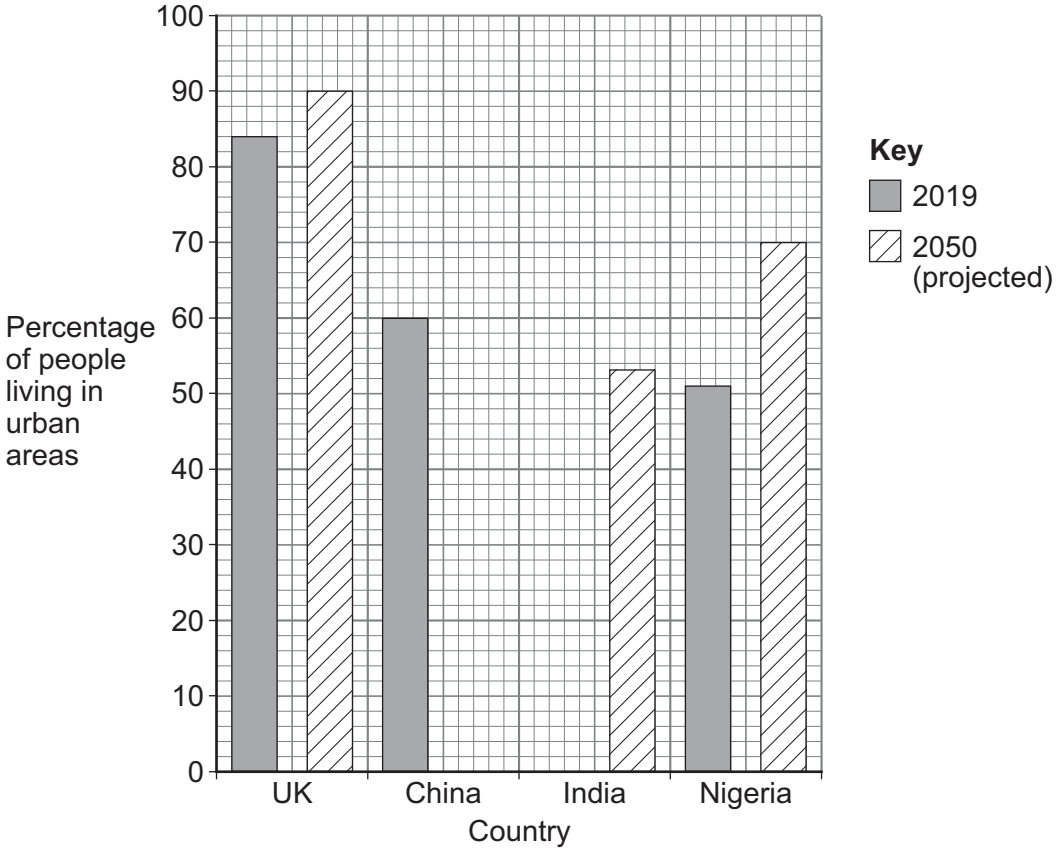
C 5 million people. 

D 10 million people. 

Do not write outside the box

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

Do not write outside the box

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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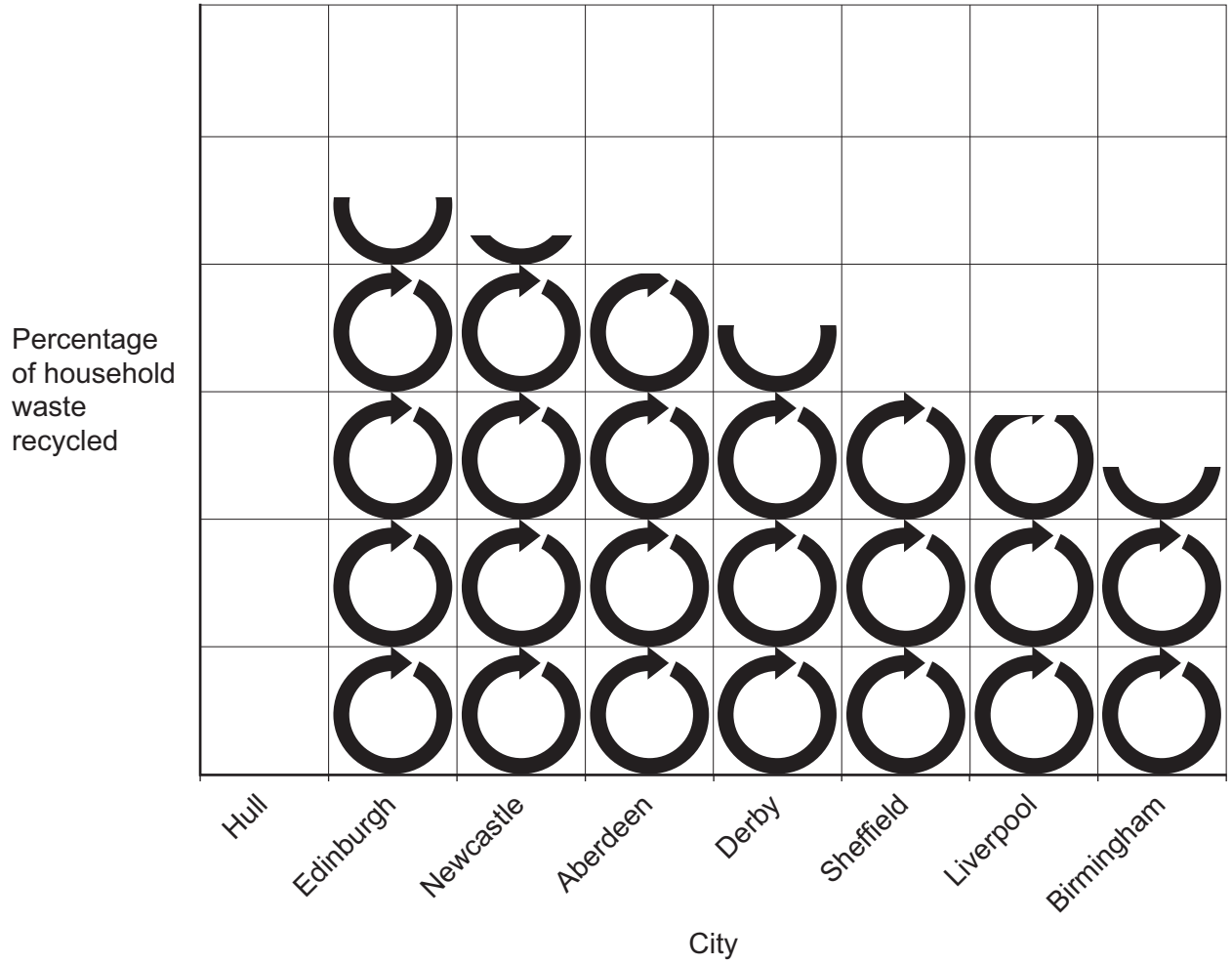
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Question 1 continues on the next page

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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]

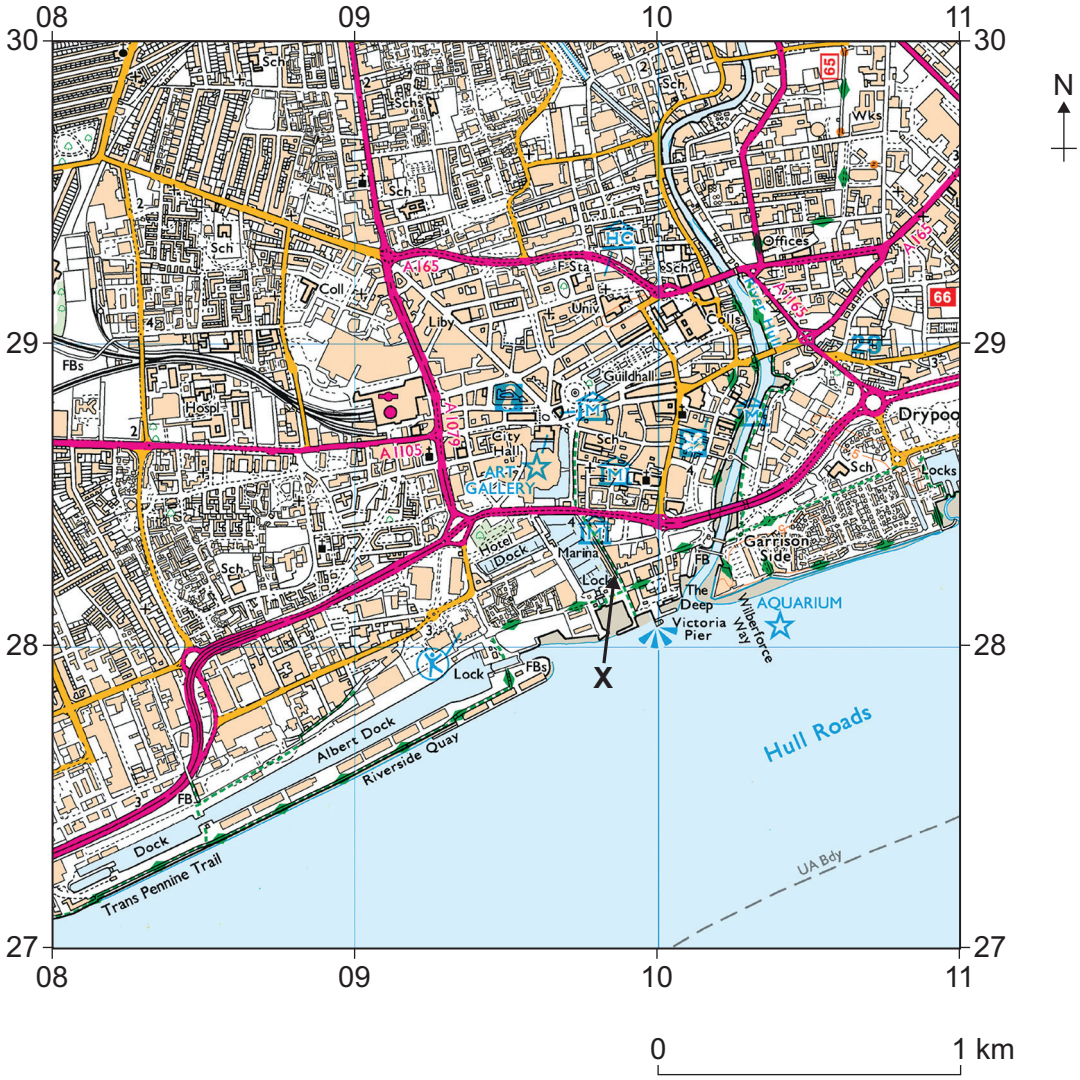
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Question 1 continues on the next page

Do not write outside the box

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 ⬭

Do not write outside the box

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

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 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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Extra space

33

End of Section A

Turn over for Section B

Do not write outside the box

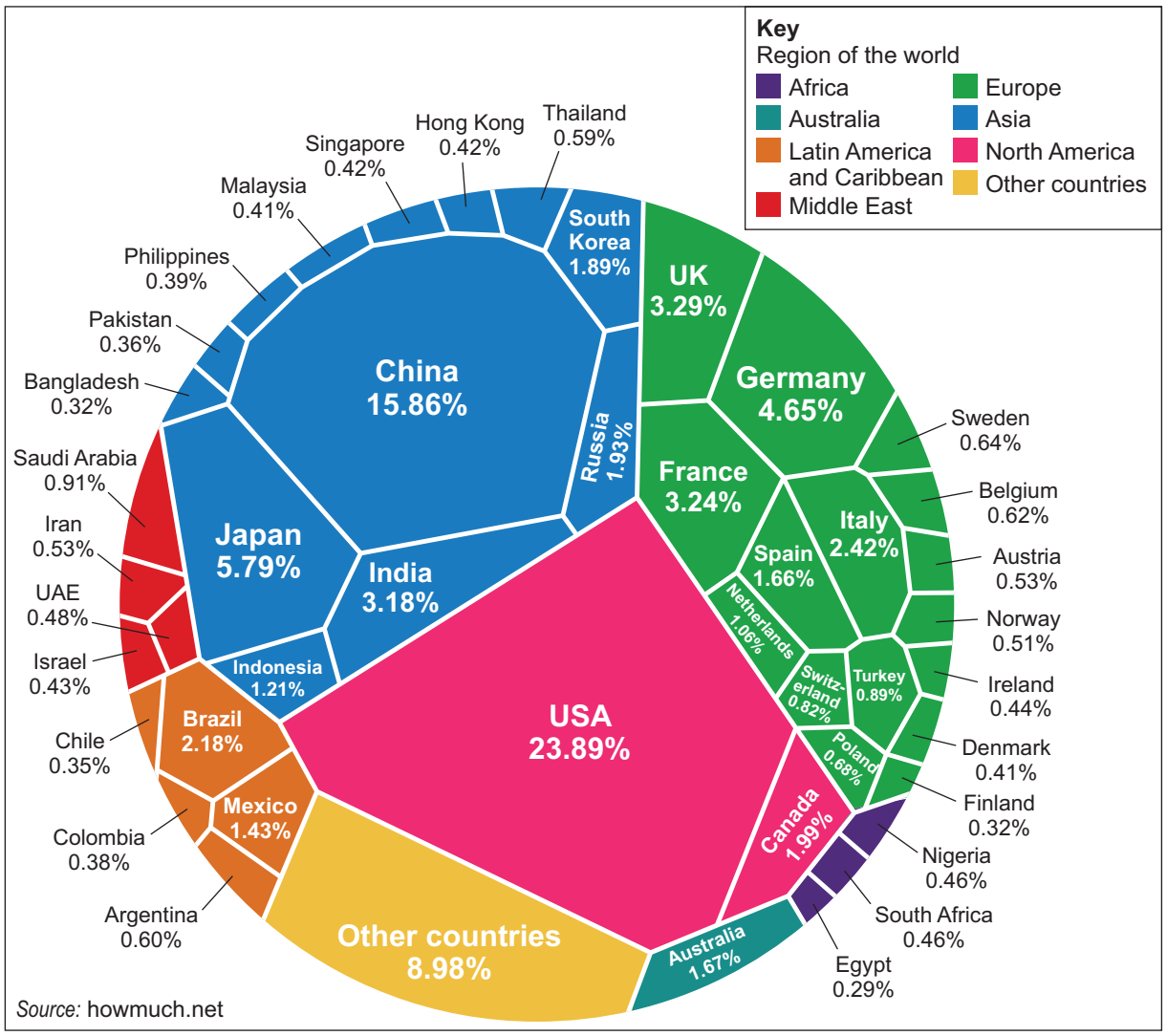
Section B The changing economic world

Answer **all** questions in this section.

Question 2 The changing economic world

Study **Figure 6**, a 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]

_____ %

Do not write outside the box

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

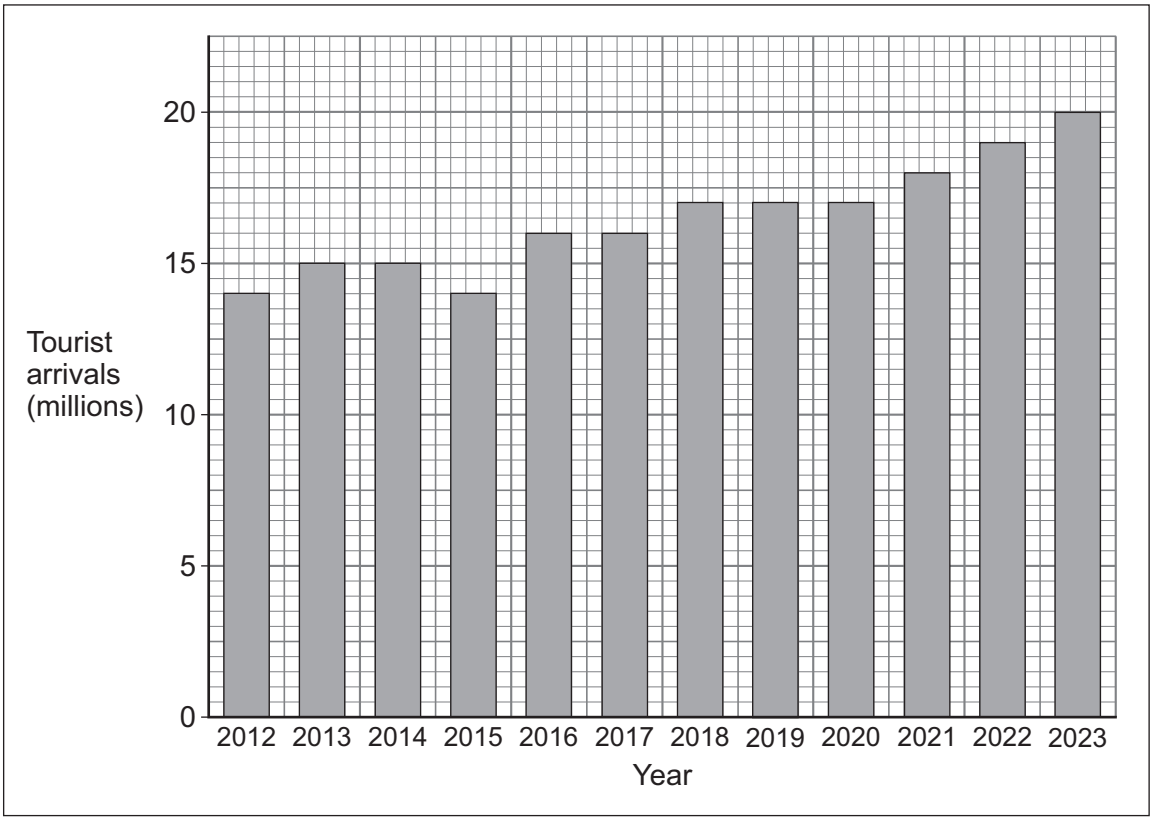
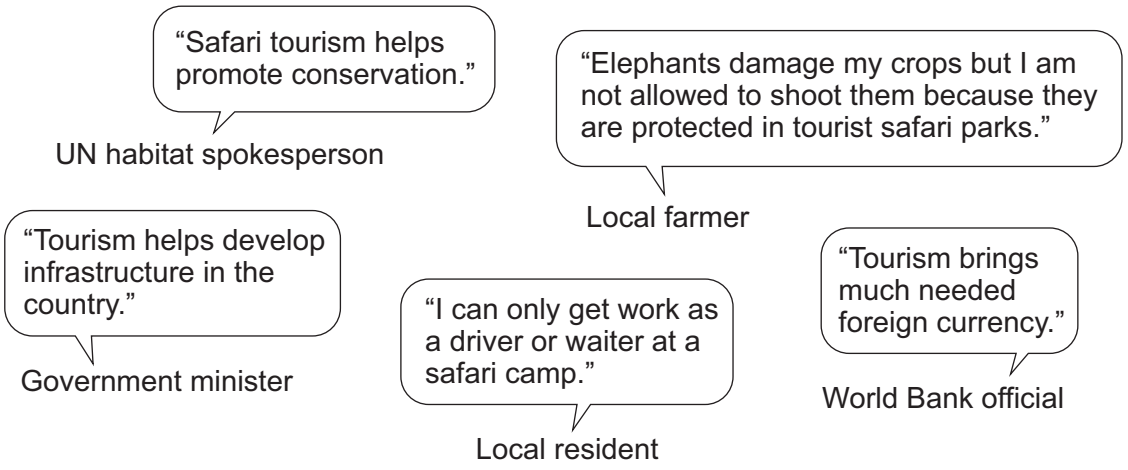


Figure 7b



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

[1 mark]

Do not write outside the box

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.

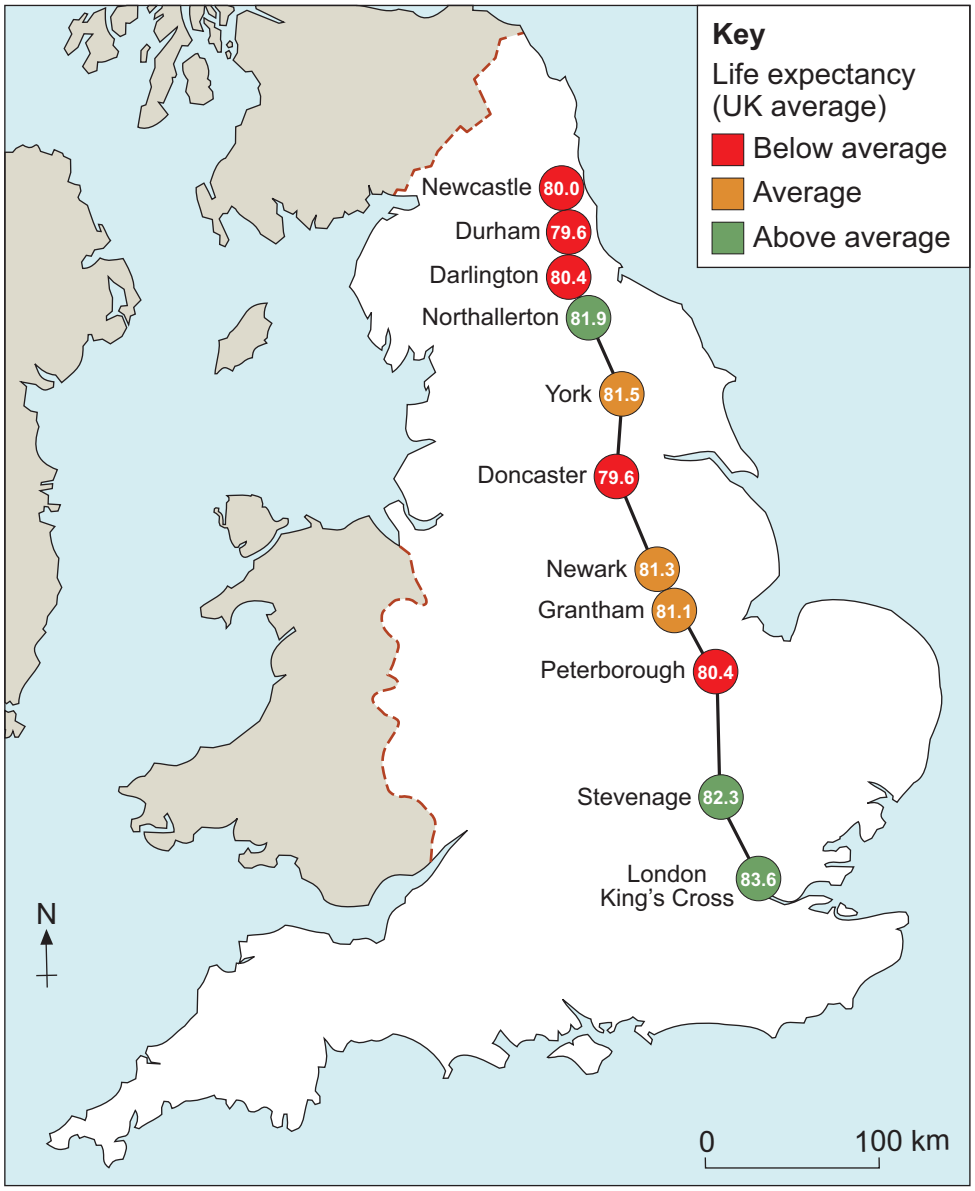
[6 marks]

Extra space

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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 =

Do not write outside the box

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]

Extra space

Do not write outside the box

30

End of Section B

Turn over for Section C

Do not write outside the box

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]

Do not write outside the box

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

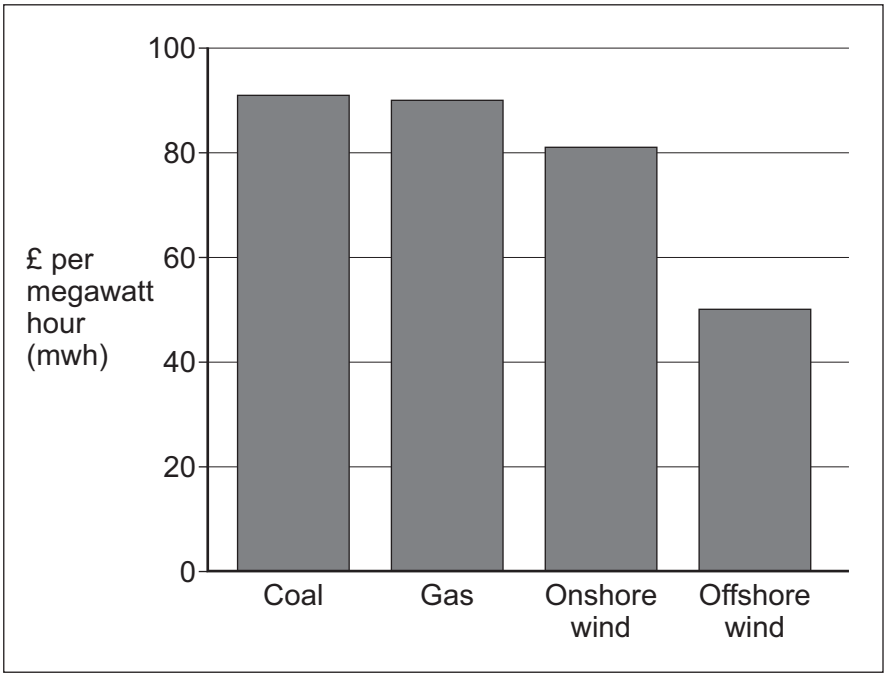


Figure 10b



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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

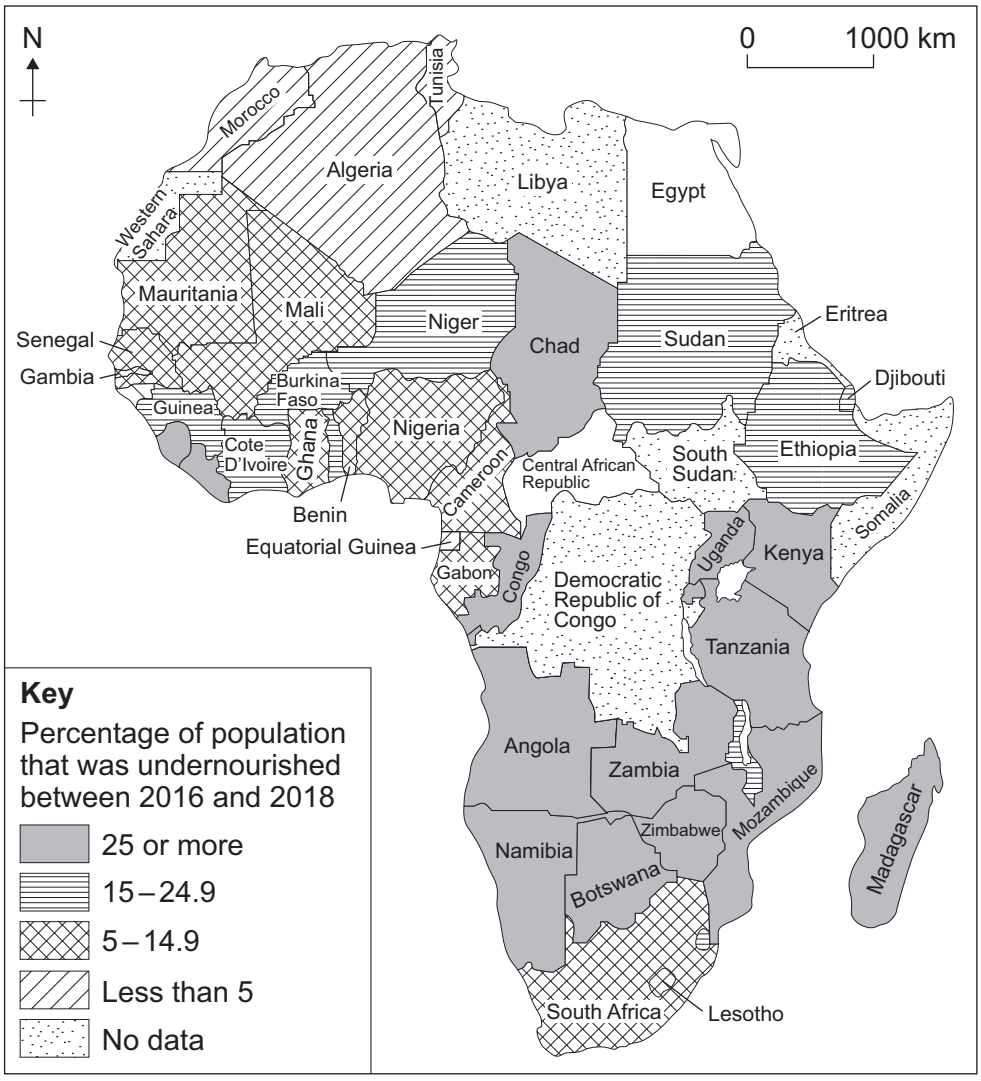
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Answer **either** Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

Question 4 **Food**

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

Figure 11



Do not write outside the box

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

Do not write outside the box

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

CERTIFIED SUSTAINABLE SEAFOOD
MSC
www.msc.org
TM

Do not write outside the box

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

End of Question 4

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

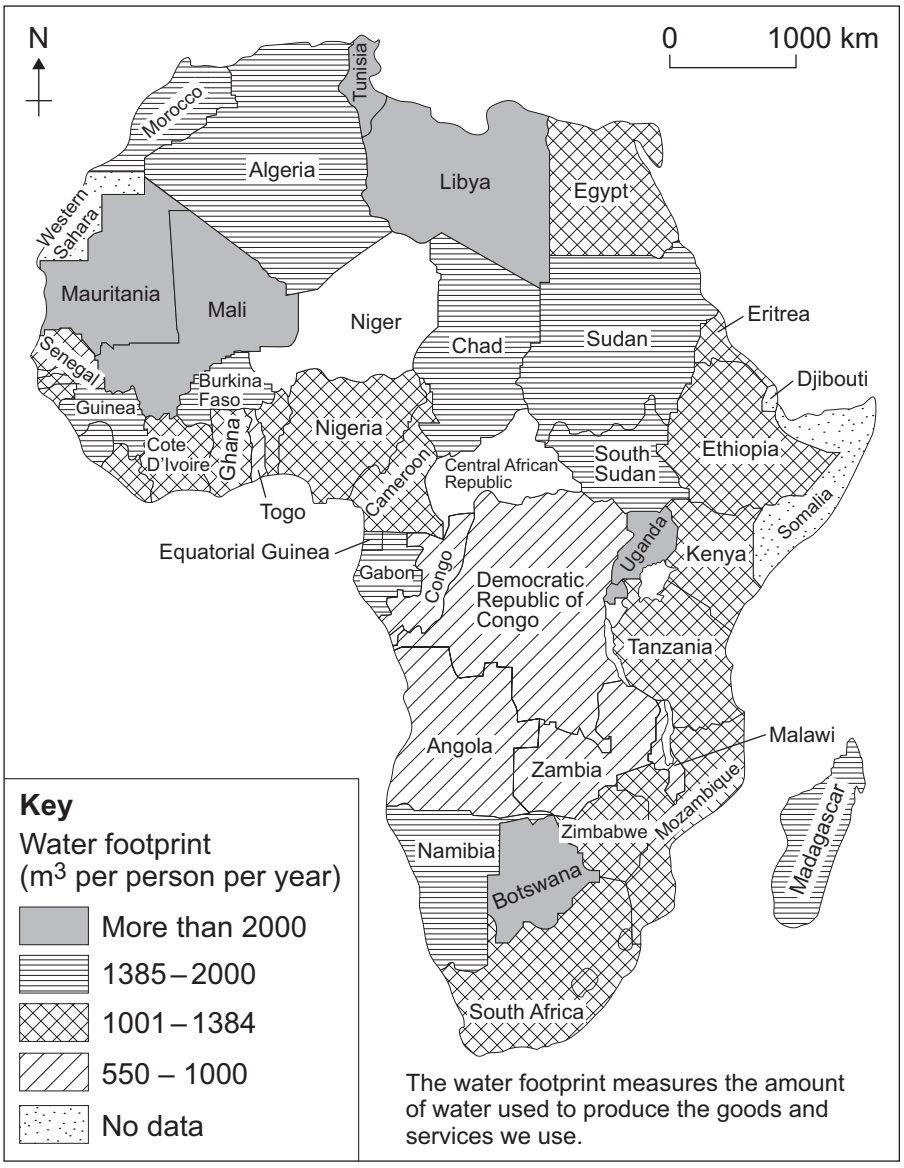
13

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Question 5 **Water**

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

Figure 13



Do not write outside the box

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]

0 5 . 4 What is meant by water deficit?

[1 mark]

Question 5 continues on the next page

Do not write outside the box

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

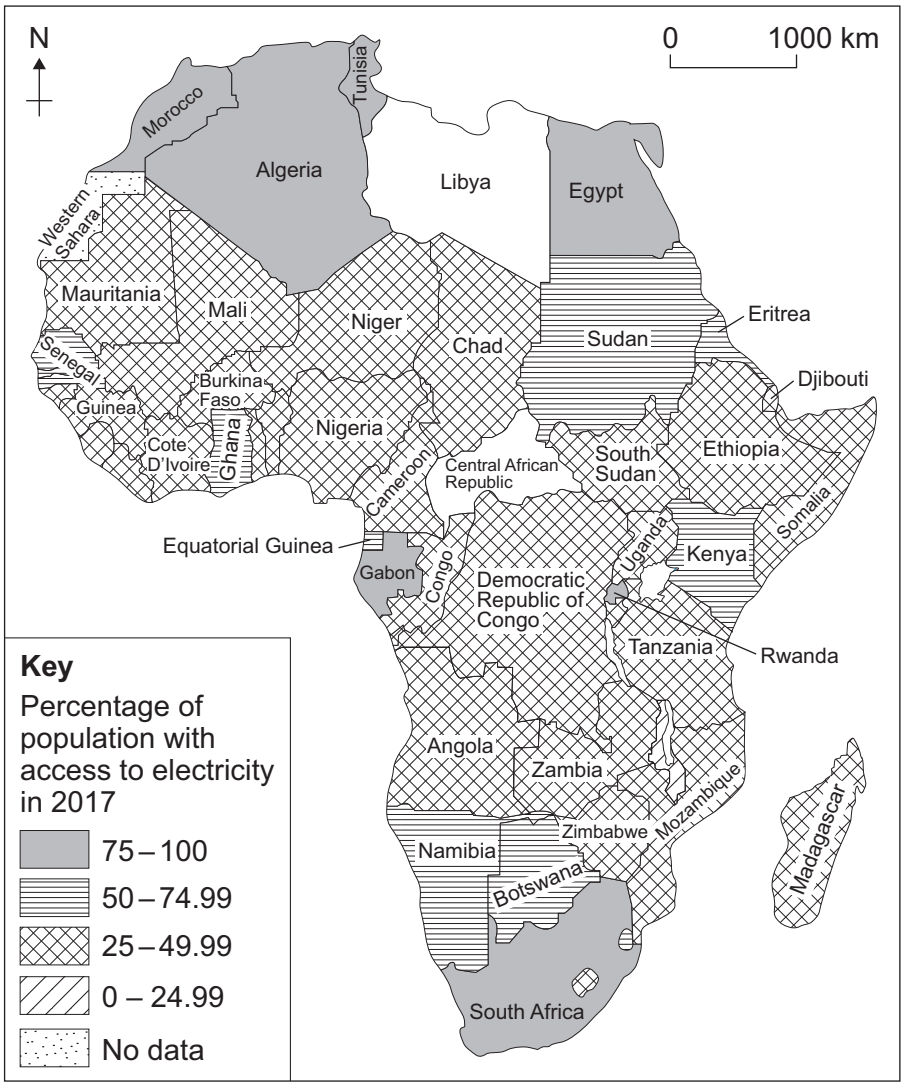
If you have answered Question 5, do not answer Question 4 or 6

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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



Do not write outside the box

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

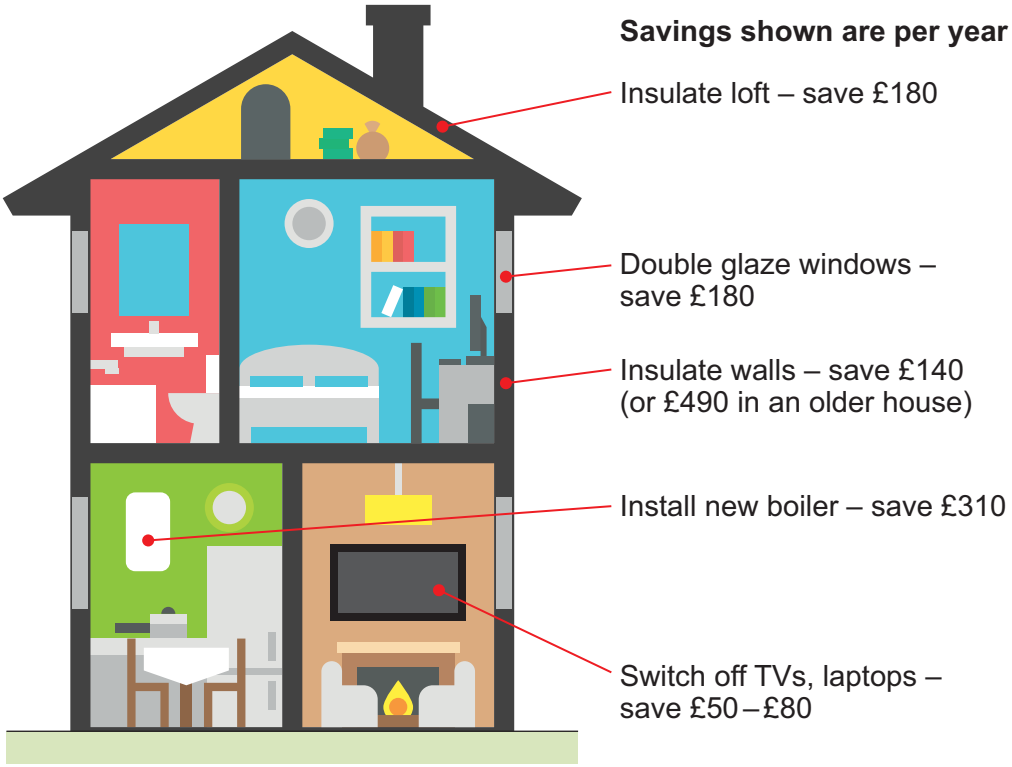


Figure 16b



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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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