AQA

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	

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.   ◯
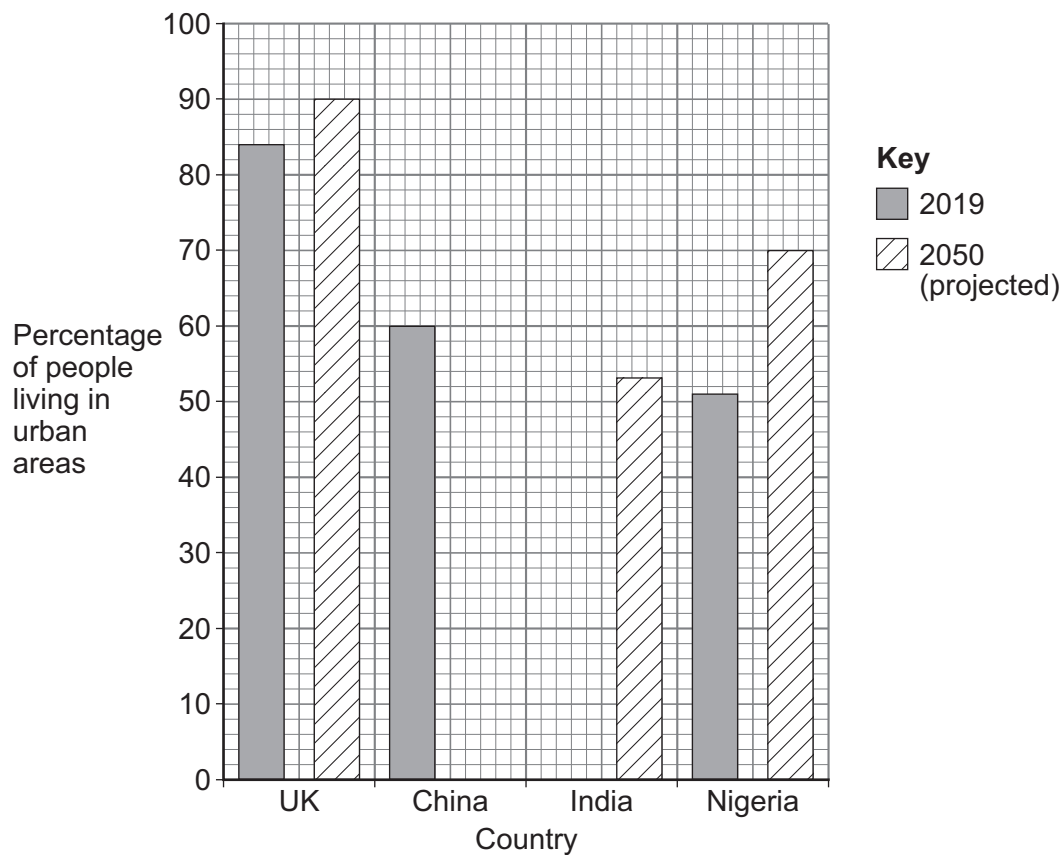
C   5 million people.   ◯

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 _____

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2 _____

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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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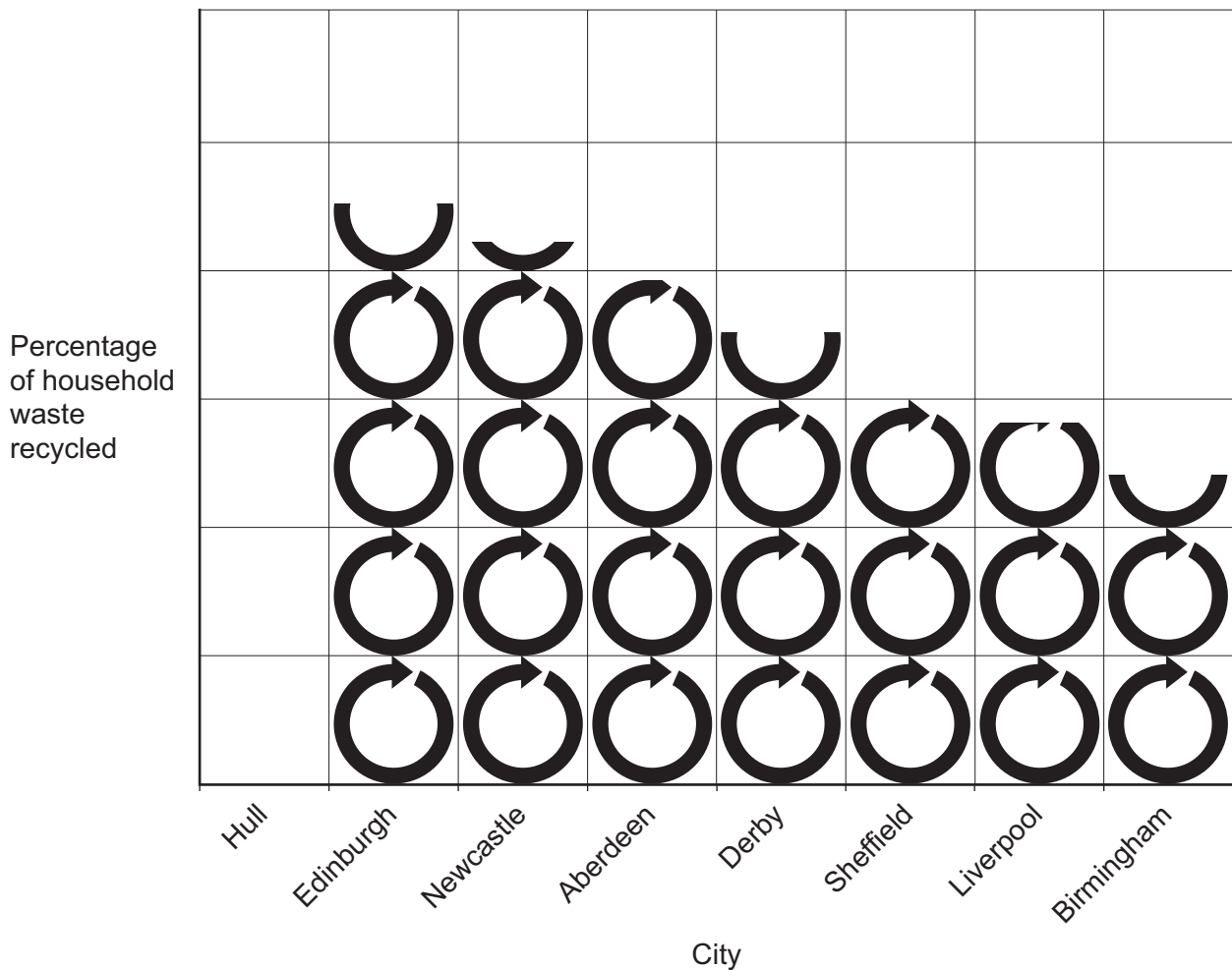Extra space _____

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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

Percentage of household waste recycled

City

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

| 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

Turn over ▶

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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End of Section A

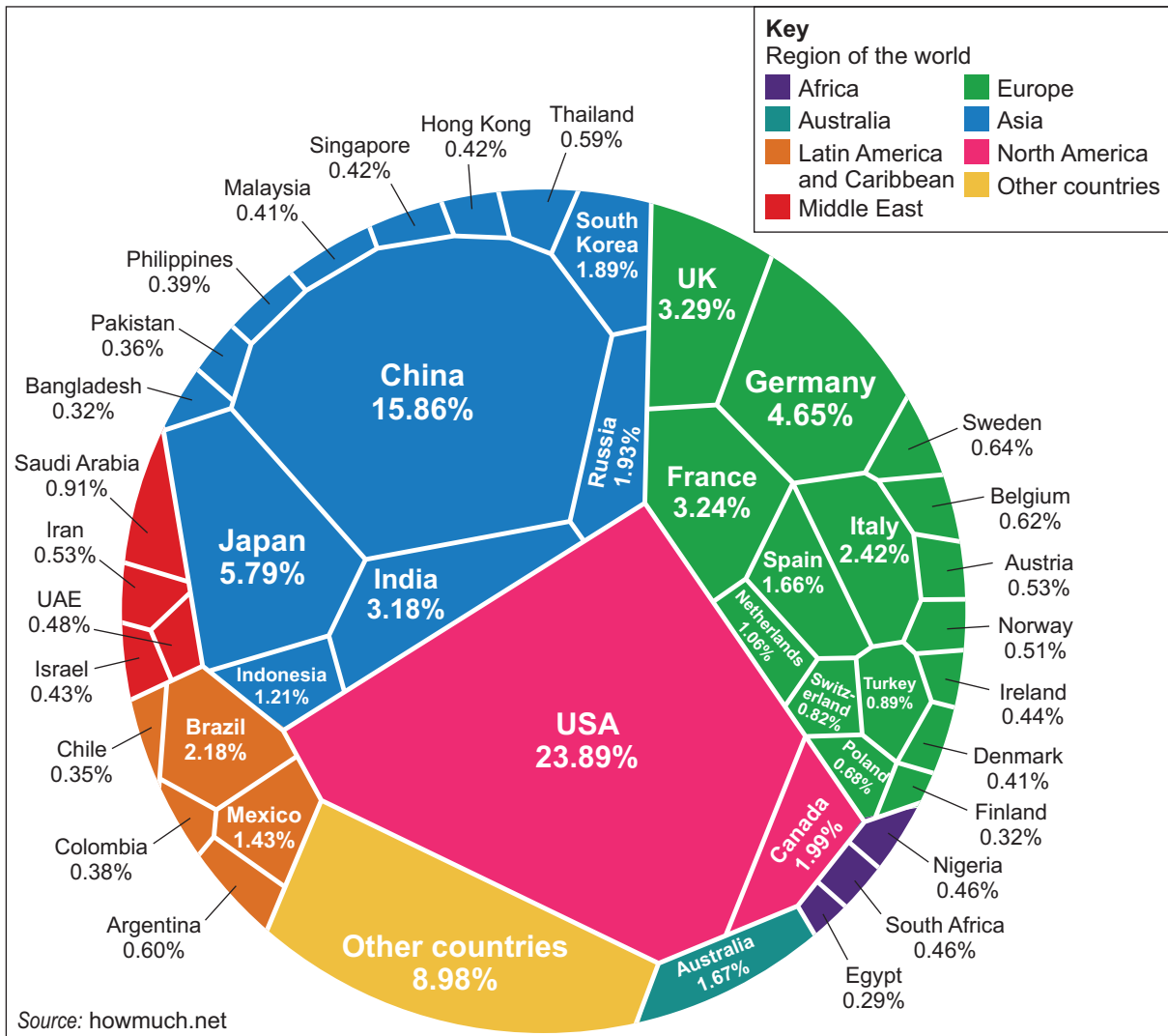**Turn over for Section B**

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

Source: howmuch.net

| 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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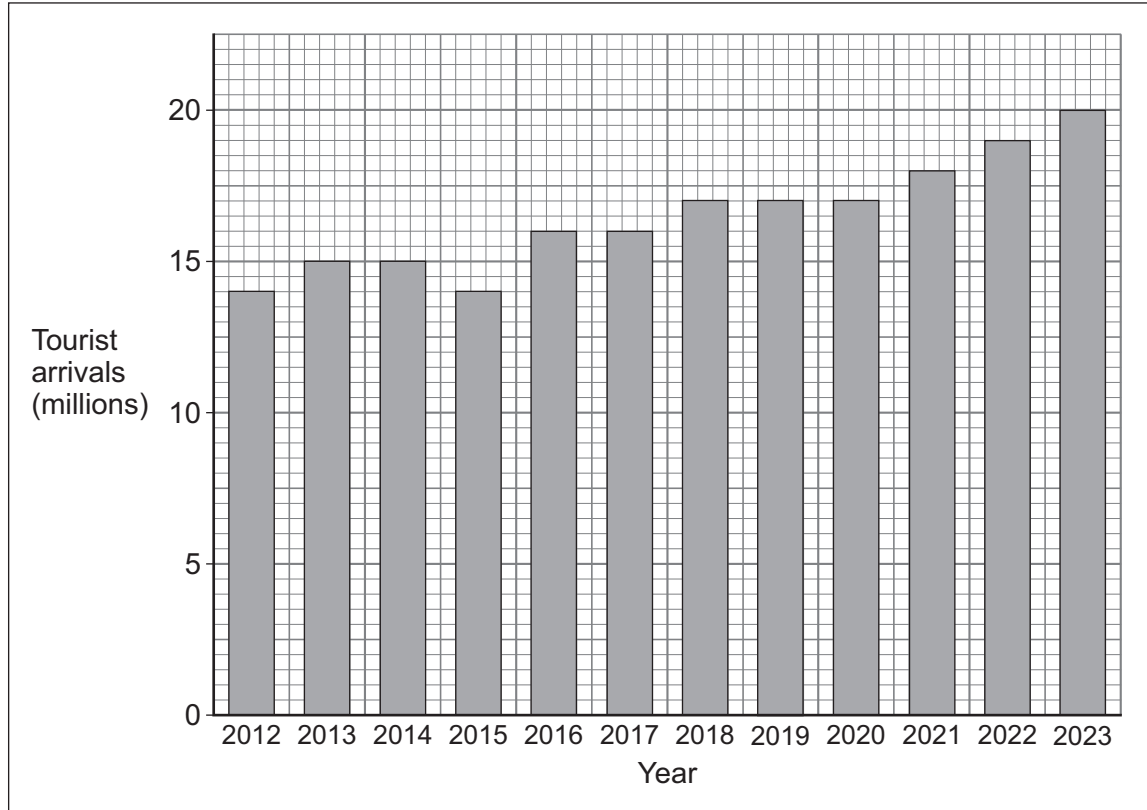
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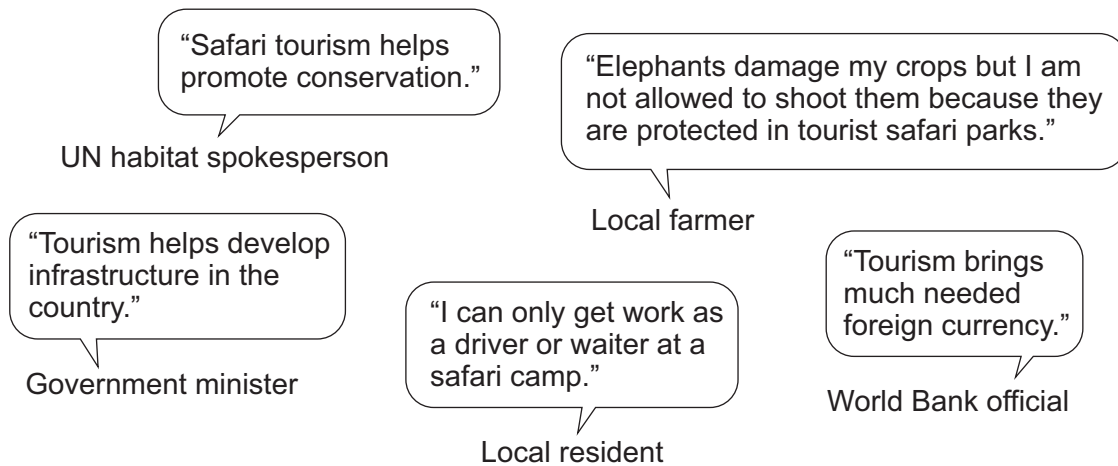
Turn over ▶

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

"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]

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

[1 mark]

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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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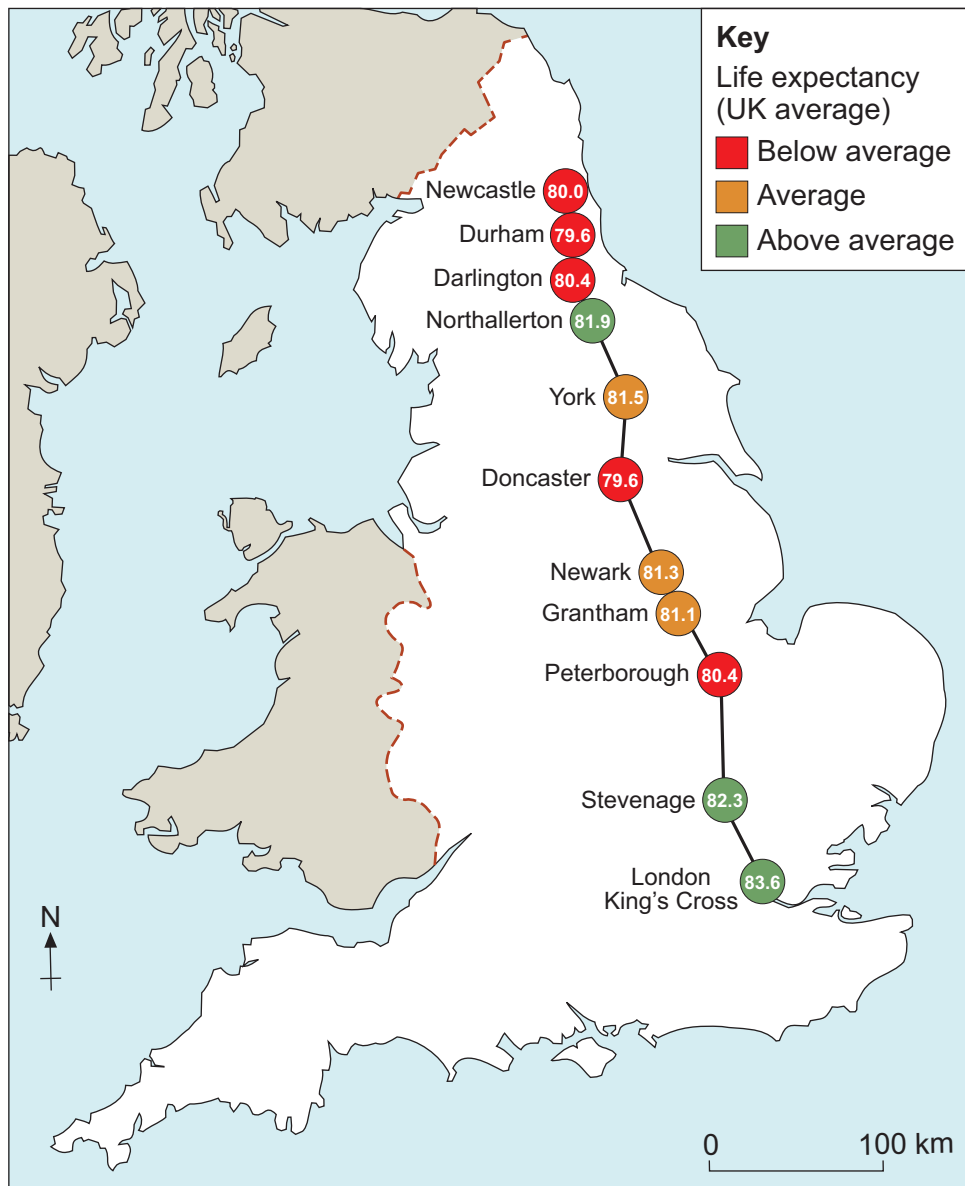_____

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

Figure 8

Key
Life expectancy (UK average)
🟥 Below average
🟧 Average
🟩 Above average

Newcastle 80.0
Durham 79.6
Darlington 80.4
Northallerton 81.9
York 81.5
Doncaster 79.6
Newark 81.3
Grantham 81.1
Peterborough 80.4
Stevenage 82.3
London King's Cross 83.6

0   100 km

N

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

[2 marks]

Show your working

Median =

0 2 . 9   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 ▶

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

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.
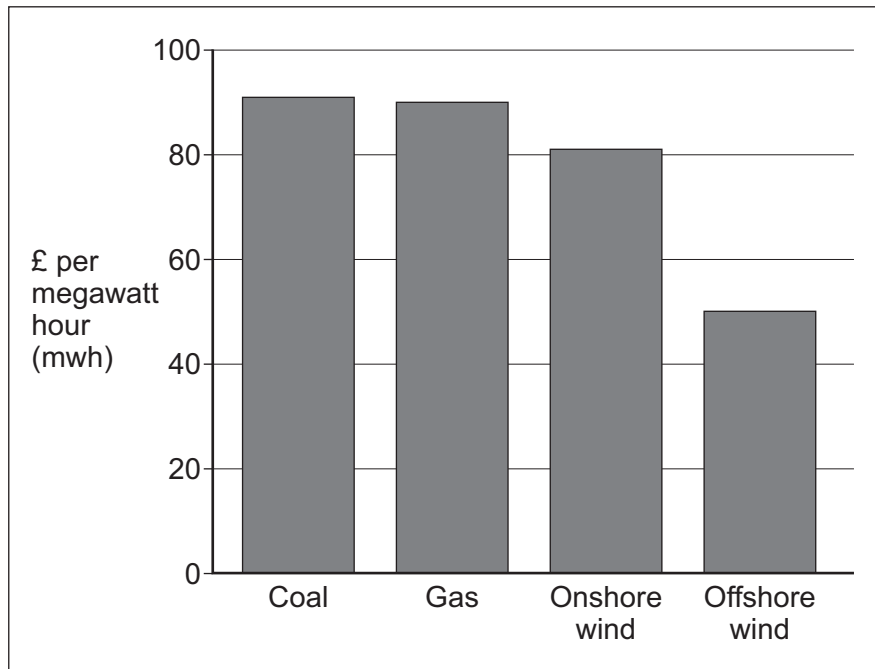
[3 marks]

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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

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]

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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

Key

Percentage of population that was undernourished between 2016 and 2018

- 25 or more
- 15–24.9
- 5–14.9
- Less than 5
- No data

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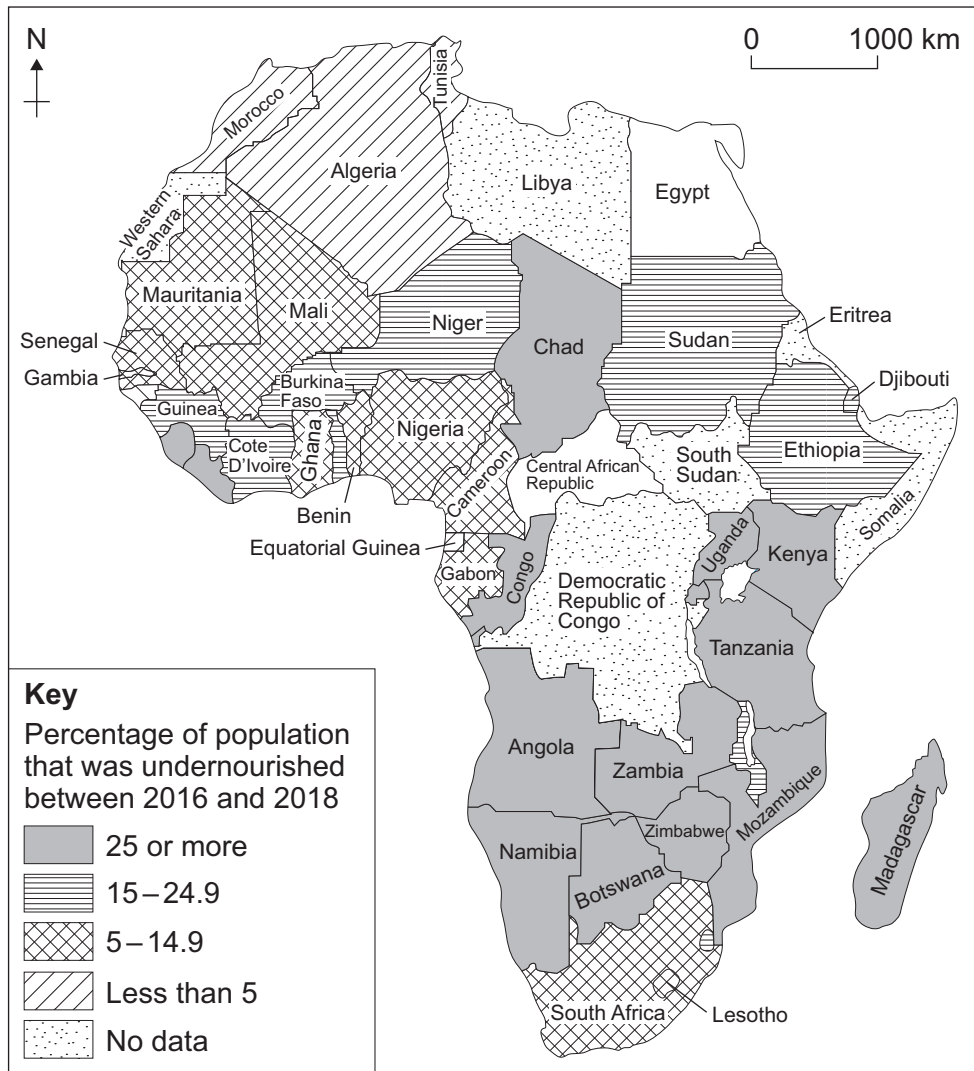
0 4 . 1	Complete **Figure 11** using the following data.

[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]

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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

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

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

[6 marks]

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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

Key
Water footprint
(m^3 per person per year)

More than 2000
1385 – 2000
1001 – 1384
550 – 1000
No data

The water footprint measures the amount of water used to produce the goods and services we use.
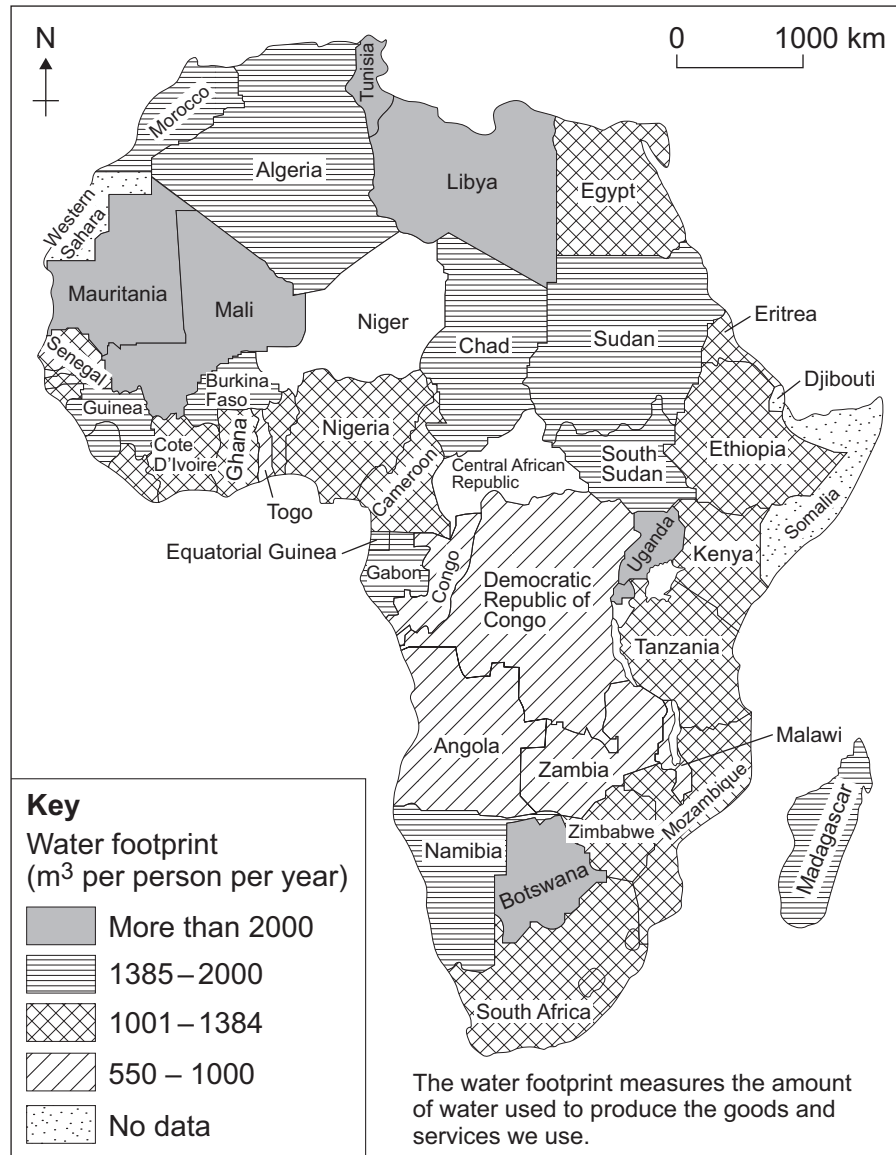
0 5 . 1   Complete **Figure 13** using the following data.

[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]

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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

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

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

[6 marks]

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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

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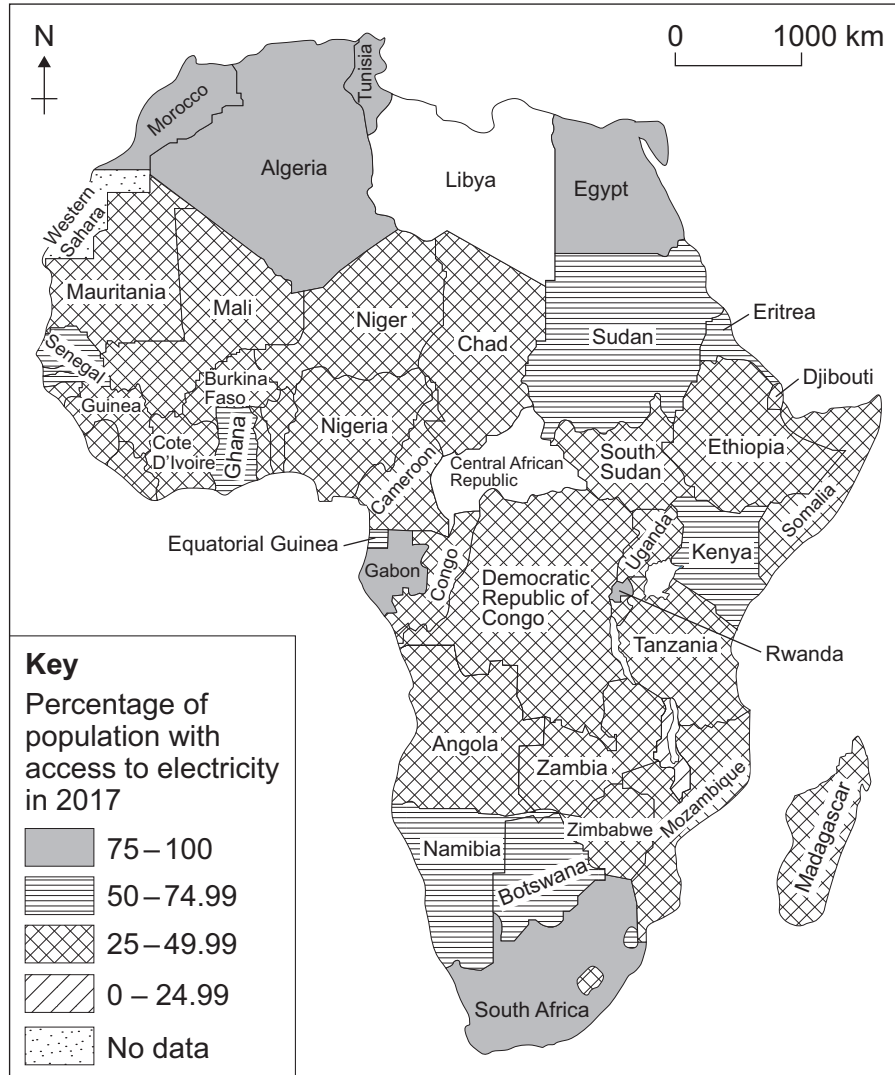
0 6 . 1 Complete **Figure 15** using the following data.

[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]

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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

Savings shown are per year

Insulate loft – save £180

Double glaze windows – save £180

Insulate walls – save £140 (or £490 in an older house)

Install new boiler – save £310

Switch off TVs, laptops – save £50 – £80
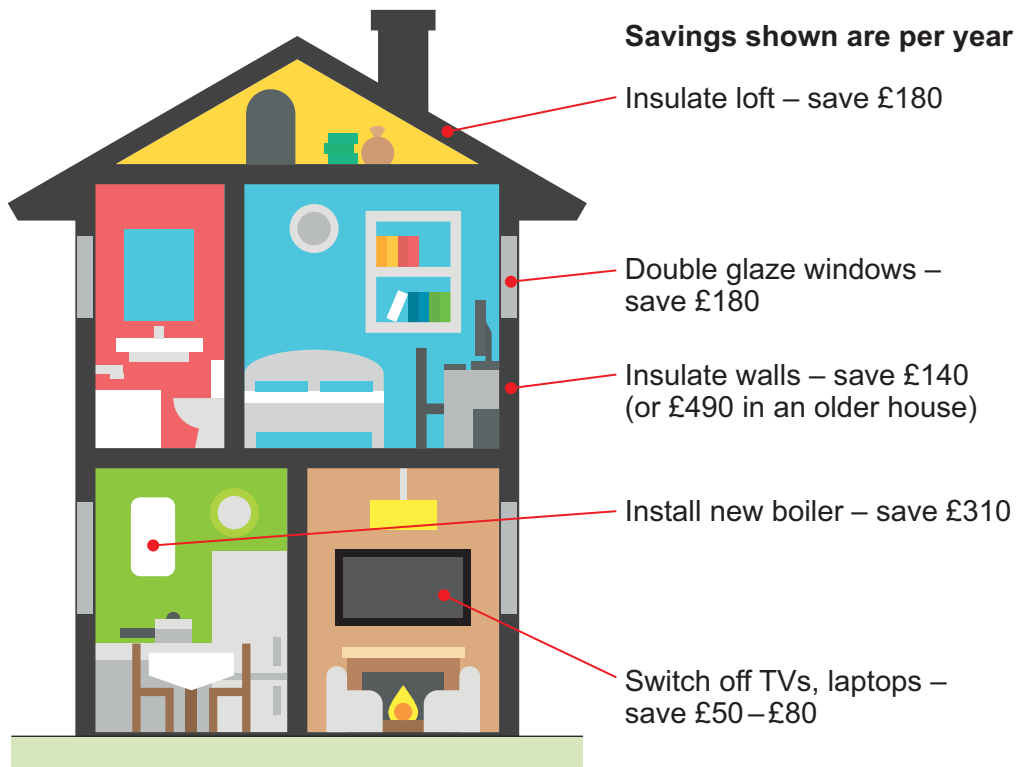
Figure 16b

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

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

[6 marks]

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

END OF QUESTIONS

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