



GCSE

C112U20-1

TUESDAY, 7 JUNE 2022 – AFTERNOON

GEOGRAPHY B – Component 2

Problem Solving Geography

1 hour 30 minutes plus your additional time allowance

Surname

First name(s)

Centre Number

Candidate Number

0

ADDITIONAL MATERIALS

Resource Folder.

In addition to this paper you may use a calculator and a ruler if required.

INSTRUCTIONS TO CANDIDATES

Answer ALL of the questions in this examination.

Use black ink, black ball-point pen or your usual method.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces on the previous page.

Write your answers in the spaces provided in this booklet. Additional space is provided for some questions within the booklet (if required). If further space is required for any question, you should use the additional page(s) at the end of this booklet. The question number(s) should be clearly shown.

(Turn over)

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part-question.

You are reminded that assessment will take into account your ability to spell, punctuate and use grammar and specialist terminology accurately in your answer to Part C.

(Turn over)

Answer ALL questions.

Grottole is a village in Italy, a High Income Country (HIC). In recent years it has experienced an outward flow of people. This has been caused by a number of reasons.

Part A:

provides information about Grottole, its climate and some causes of migration from the village. 44 marks

Part B:

provides some information about the effects of outward migration and considers some solutions to help the area. 16 marks

Part C:

asks you to suggest which solutions should be chosen to help the area. 16 marks

(Turn over)

PART A – AN INTRODUCTION TO GROTTOLE, ITALY.

You are advised to spend about 40 MINUTES on this part.

- (a) Study the map in FIGURE 2 on PAGE 3 of the RESOURCE FOLDER.

Describe the location of Grottole by circling the THREE correct answers from the box below.

[3 marks]

Southern Italy

Northern Italy

West of Naples

On the Adriatic coast

East of Naples

On the island of Sicily

North of Croatia

On the coast of the Ionian Sea

350 km from Rome

200 km from Rome

(Turn over)

(b) (i) Study the climate graph opposite.

Describe the climate of Grottole. Use figures in your answer. [3 marks]

(Turn over)

- (b) (ii) Complete the table below to describe the typical conditions of a high-pressure system by circling the ONE correct term in each box. [4 marks]

	SUMMER	WINTER
Cloud cover	None / Some / Full	None / Some / Full
Weather conditions	Rain / Windy / Sun	Frost / Windy / Rain

(Turn over)

- (b) (iii) Summer tourism in Grottole is encouraged by weather caused by high-pressure conditions.

Complete the following statements to explain why high pressure encourages summer tourism. Circle the correct term in each set of possible answers. [4 marks]

In areas of high pressure the air in the upper atmosphere (COOLS / FREEZES / WARMS). This means that the air (RISES / SINKS / DOES NOT MOVE). As a result, there is less (CONDENSATION / EVAPORATION / TRANSPIRATION).

The air in high-pressure areas moves slowly so the weather is (UNSETTLED / SETTLED / MARITIME).

(c) Global warming is causing climate change in many places in Italy, including Grottole.

(i) Name TWO causes of global warming. [2 marks]

Cause 1: _____

Cause 2: _____

(c) (ii) Give FOUR effects of climate change. [4 marks]

Effect 1: _____

Effect 2: _____

Effect 3: _____

Effect 4: _____

(Turn over)

(c) (iii) Explain the consequences of climate change for ONE of these groups of people. [4 marks]

- **Farmers**
- **Wildlife Conservationists**
- **Water companies**
- **Tourist hotel owners**

Chosen group _____

[illegible]

(Turn over)

- (d) (i) Name ONE SOCIAL indicator, other than the Human Development Index (HDI), that is used to measure human development. [1 mark]

- (ii) Study FIGURE 3 on PAGE 4 of the RESOURCE FOLDER.

Many of the people employed in the primary industry in Grottole are farmers. They export a lot of their products.

What does export mean? [1 mark]

- (d) (iii) Study the development indicators in FIGURE 4 on PAGE 4 of the RESOURCE FOLDER.
Compare Grottolo's region with Italy as a whole.
[3 marks]

(d) (iv) Suggest what these indicators do NOT tell us about the level of development in Grottole?

[3 marks]

(Turn over)

- (e) (i) The graph opposite shows the population of Italy over recent years.

Use the information in the table below to complete the line graph. [2 marks]

	2020
Total population	60.5 m
Urban population	42 m

- (ii) The proportion of people in rural areas is declining. Explain why. [6 marks]

(Turn over)

- (e) (iii) The population of Grottole has fallen from 1 400 to 300 in the past thirty years.**

Give TWO reasons why a decrease in population in a rural area affects those who stay. [4 marks]

[illegible]

END OF PART A

(Turn over)

PART B**THE EFFECTS OF MIGRATION IN GROTTOLE.**

You are advised to spend about 20 MINUTES on this part.

(a) (i) Study the data table opposite.

Give the difference between households with internet access in Grottole's region and the UK. [1 mark]

_____ %

(ii) Give ONE reason why good communication links can bring economic advantages to an area.

[2 marks]

(Turn over)

(b) Study FIGURE 5 on page 5 of the RESOURCE FOLDER. Grottole has become a tourist honeypot. The number of holiday homes in the village has increased in recent years.

(i) Explain the possible problems this could cause.

[6]

- (ii) Suggest ONE advantage that an increase in tourism could bring to the village of Grottole.

[3 marks]

(Turn over)

- (c) (i) Multinational companies [MNCs] have invested in Grottole because it is part of a trading bloc, the European Union (EU).

Give ONE reason why governments benefit from investment by MNCs. [2 marks]

- (c) (ii) Governments sometimes offer industries help to move to an area.

Explain ONE problem this might cause.

[2 marks]

END OF PART B

(Turn over)

PART C

You are advised to spend about 30 MINUTES on this part.

Like many rural villages in the UK and the EU, Grottole has experienced rural depopulation [people have left].

A number of options have been suggested to try to stop this population change and produce a more sustainable community.

THESE ARE SHOWN IN FIGURE 6 ON PAGE 6 AND 7 OF THE RESOURCE FOLDER.

Select a combination of the options that you think will work best together to:

- **stop people leaving**
- **encourage people to move into the area**
- **produce a more sustainable community**

Use information in this paper and the Resource Folder, as well as your studies, to help you.

CHOOSE NO MORE THAN THREE.

Justify your choices. [12 marks]

(Turn over)

Your ability to spell, punctuate and use grammar and specialist terminology accurately will be assessed in your answer. [4 marks]

Circle the development options you have chosen.

1

2

3

4

5

6

7

8

(Turn over)

(Turn over)

(Turn over)

Additional space for Part C only:

[illegible]

END OF PART C

END OF PAPER

(Turn over)

Question number	ADDITIONAL PAGE, IF REQUIRED. WRITE THE QUESTION NUMBER(S) IN THE LEFT-HAND MARGIN.

(Turn over)

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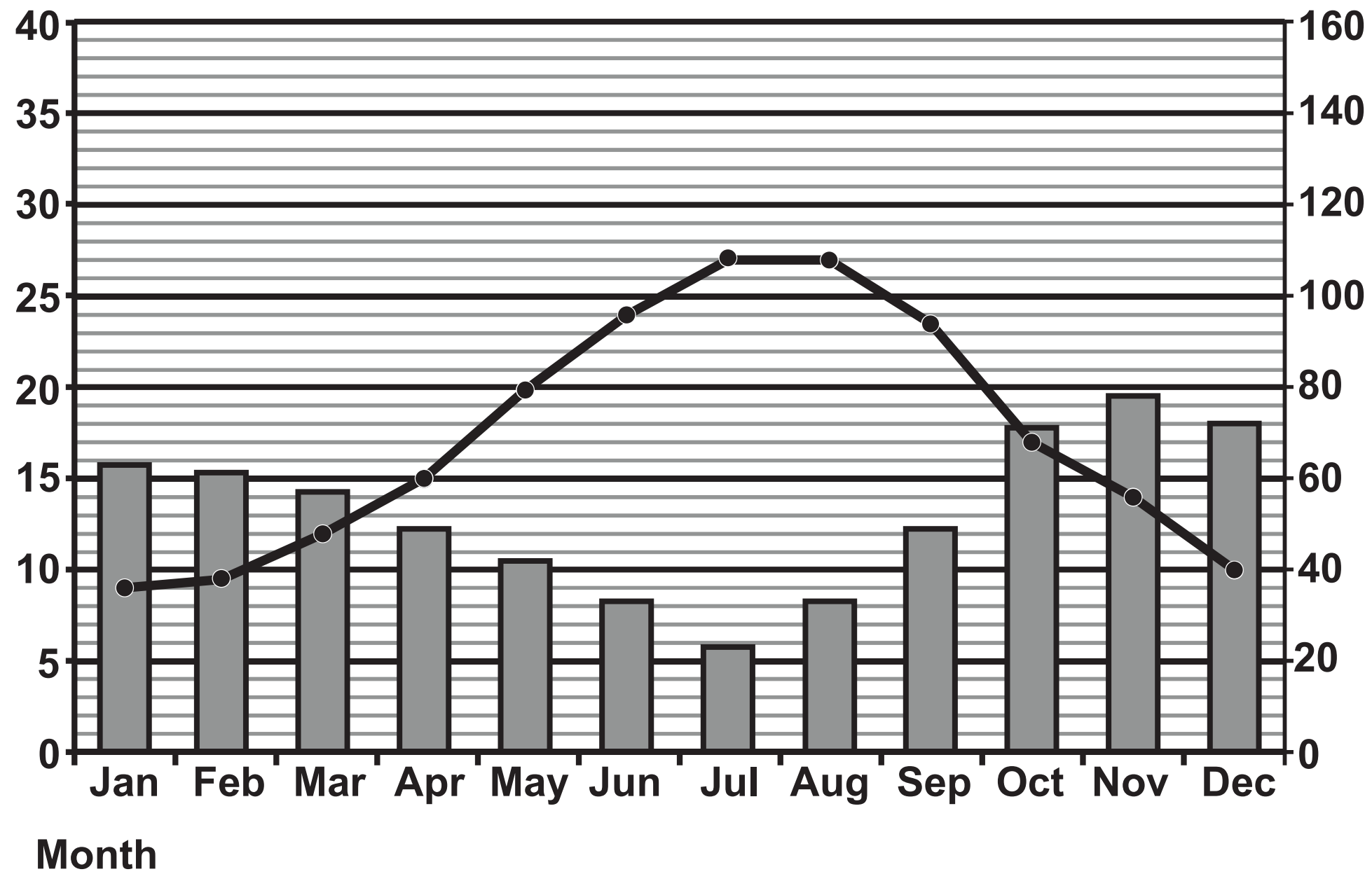
For Examiner's use only		
	Maximum Mark	Mark Awarded
Part A	44	
Part B	16	
Part C	12	
SPaG	4	
Total	76	

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Question	Maximum Mark	Mark Awarded
Part A	44	
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CLIMATE GRAPH FOR GROTTOLE, ITALY

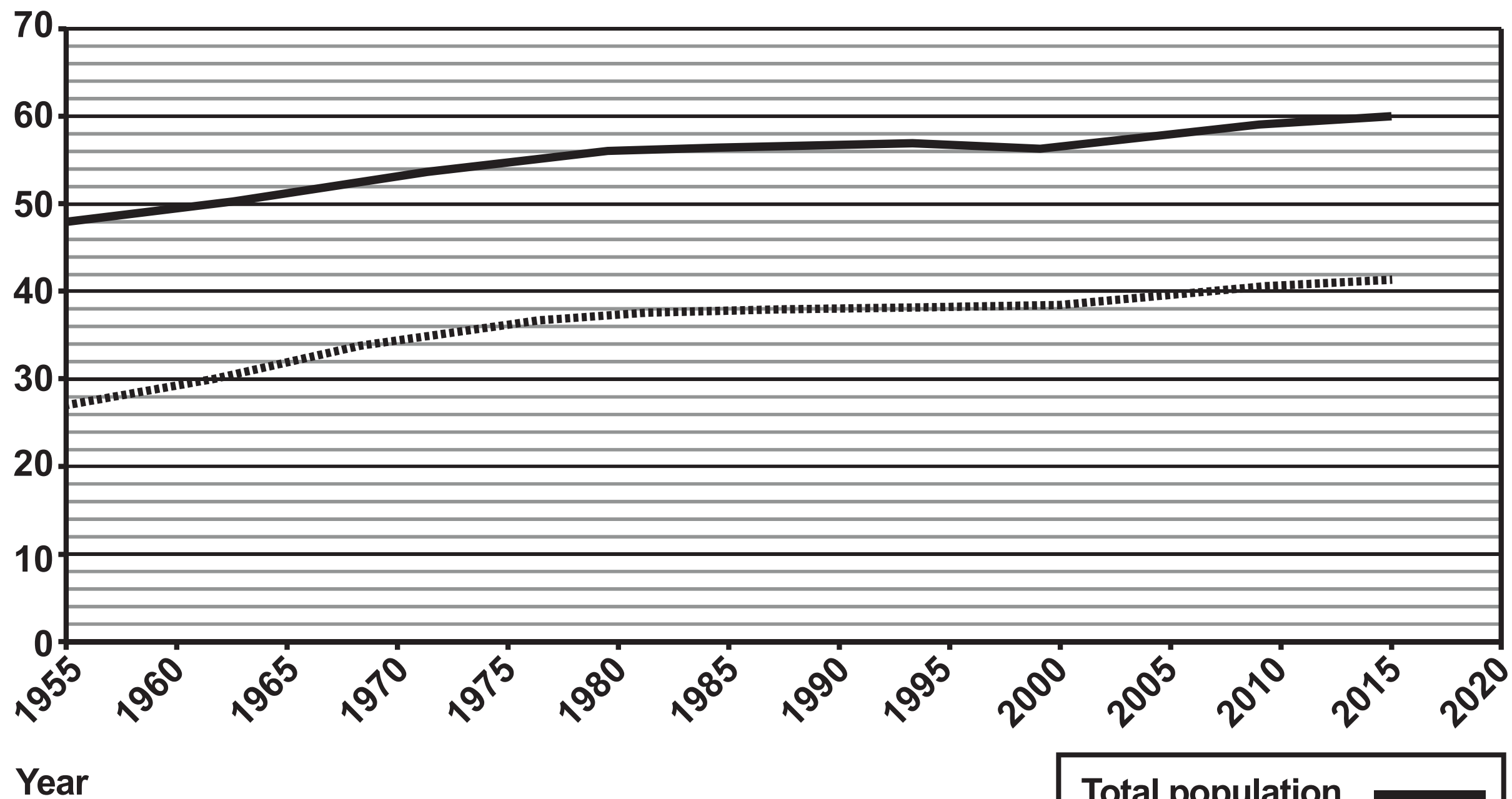
Temperature (°C) —●—

Rainfall (mm) ■



POPULATION AND URBAN POPULATION IN ITALY

Population (millions)



Total population —
Urban population

	Households with internet access [2019]	Households with potential access to ultra-fast broadband [2019]
Grottole's region	69%	94%
Northern Italy	74%	98%
Central Italy	73%	82%
Southern Italy	64%	80%
Italy	71%	94%
UK	95%	95%



GCSE

C112U20-1A

TUESDAY, 7 JUNE 2022 – AFTERNOON

GEOGRAPHY B – Component 2

RESOURCE FOLDER

**This folder is for use with questions in Component 2.
This folder need not be handed in with your answer
booklet.**



Grottole, Italy. A hilltop village.

Figure 1 - Images of Grottole



Figure 2 - A map of the location of Grottole, Italy



FIGURE 3 - COMPARISON OF JOBS/EMPLOYMENT STRUCTURE BETWEEN GROTTOLE, ITALY AND UK

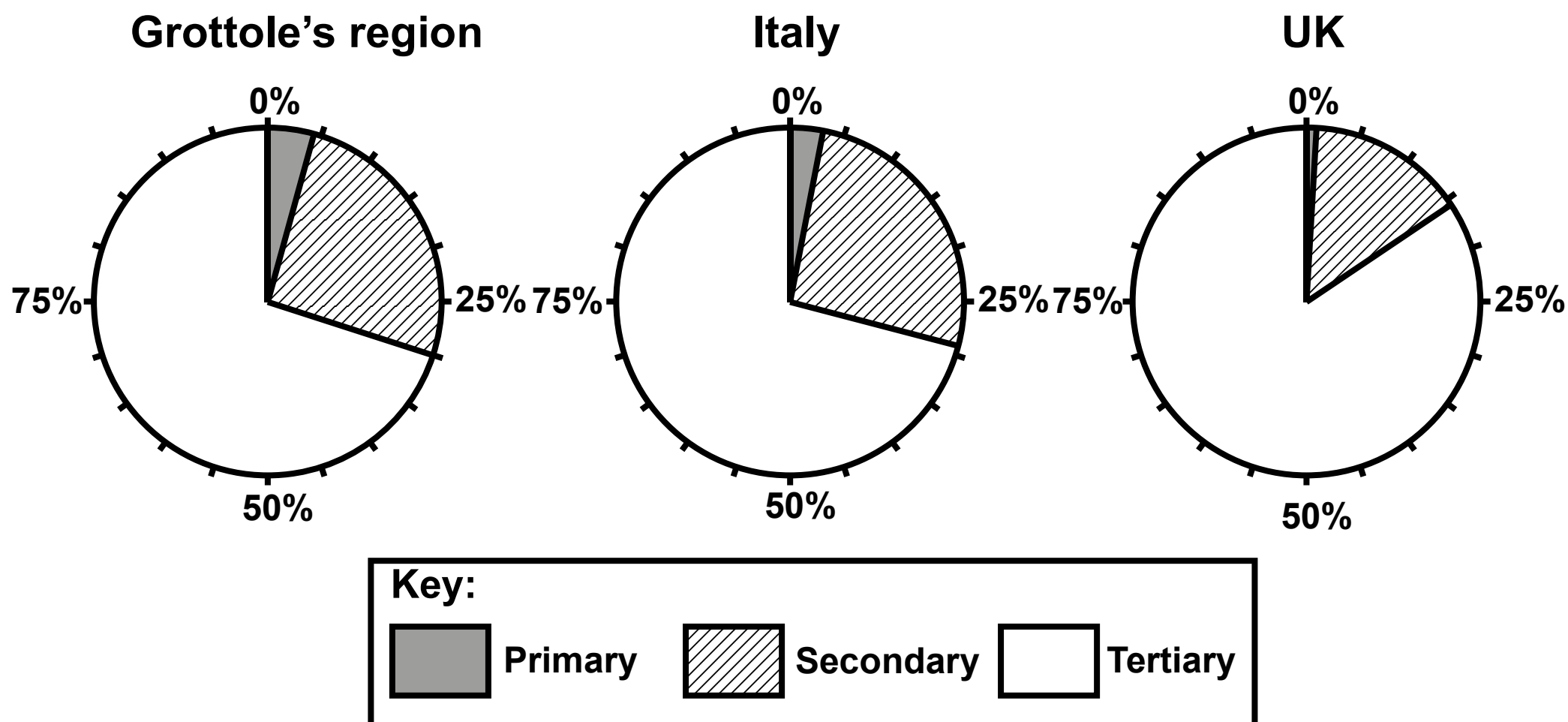


FIGURE 4 – SOME DEVELOPMENT INDICATORS COMPARING GROTTOLE'S REGION, ITALY AND UK (2018).

	GROTTOLE'S REGION	ITALY	UK
HDI	0.853	0.883	0.920
GNI per capita (US\$)	\$25 621	\$33 840	\$41 730
Unemployment	12.5%	9.1%	4.1%

FIGURE 5 - SOME OF THE HOUSES IN GROTTOLE ARE BEING RENTED OUT AS HOLIDAY HOMES

EXPLORE
Grottole

BOOK NOW!

HOLIDAY RENTALS IN GROTTOLE

GROTTOLE 481

airbnb

POTENTIAL OPTIONS TO SOLVE GROTTOLE'S DEPOPULATION PROBLEM

Grottole, a village of 300 residents, has been offered these options to stop people moving away and to encourage new residents.

OPTION 1

Grottole could be part of a scheme to host five volunteers from Airbnb (an MNC which rents holiday homes) to become temporary residents. The volunteers would spend three months experiencing village life and learning about local culture to publicise the attractions of the area on Airbnb's website and social media.

OPTION 2

A nearby university has offered to move one of its departments to Grottole. This would bring 78 jobs into the village but would require new buildings to be paid for by the local government.

OPTION 3

The national government could offer to pay half of any villager's connection fee to ultrafast broadband.

(Turn over)

OPTION 4

A popular local theatre company has asked whether Grottole would like them to perform there for the next five years.

OPTION 5

The area has been used for filming, including Wonder Woman in 2017. The regional government could offer tax reductions to encourage more companies to film there.

OPTION 6

Saturday schools and evening classes could be offered by local colleges to improve people's internet skills and to show them how the internet could be used for business.

OPTION 7

The EU could offer to help farmers irrigate their land more effectively. This could make farming more profitable.

OPTION 8

More of the empty buildings could be converted to holiday homes.