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GEOGRAPHY **0460/12**

Paper 1 Geographical Themes **May/June 2023**

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed) Ruler
Calculator
Protractor

INSTRUCTIONS

- Answer **three** questions in total, **one** from each section.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [ ].
- The insert contains additional resources referred to in the questions.

Definitions
MEDCs – More Economically Developed Countries
LEDCs – Less Economically Developed Countries

This document has **32** pages. Any blank pages are indicated.

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Section A

Answer **one** question from this section.

1 **(a)** Study Fig. 1.1, which shows information about migration to selected countries in Europe between January and September 2019.

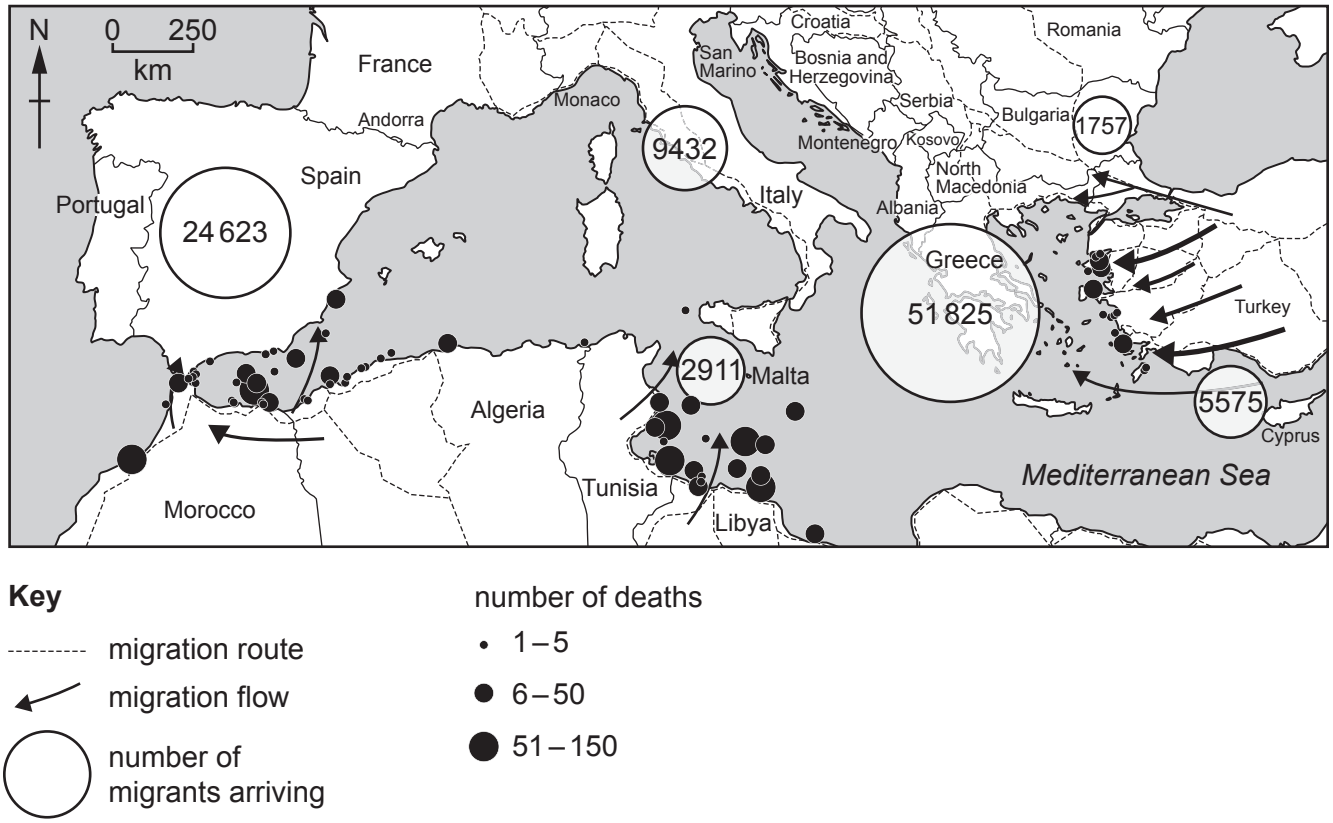


Fig. 1.1

(i) Put the following countries in rank order of the number of migrants arriving between January and September 2019. Two have been completed for you.

Cyprus Italy Malta Spain

1st	Greece	most
2nd	.....	
3rd	.....	
4th	.....	
5th	.....	
6th	Bulgaria	least

[1]

(ii) Describe the locations of **two** different areas where there were many deaths of migrants as they attempted to cross the Mediterranean Sea.

1 .....

.....

2 .....

..... [2]

(iii) Some of the migration to Europe shown on Fig. 1.1 was forced (involuntary) migration from LEDCs.
Give **three** reasons why there is forced migration from some LEDCs.

1 .....

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2 .....

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3 .....

..... [3]

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(iv) Explain why the arrival of large numbers of migrants from LEDCs may cause problems for **countries in Europe**.

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..... [4]

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(b) Study Fig. 1.2, which shows the number of migrants arriving in Greece, Italy and Spain between January and September 2019.

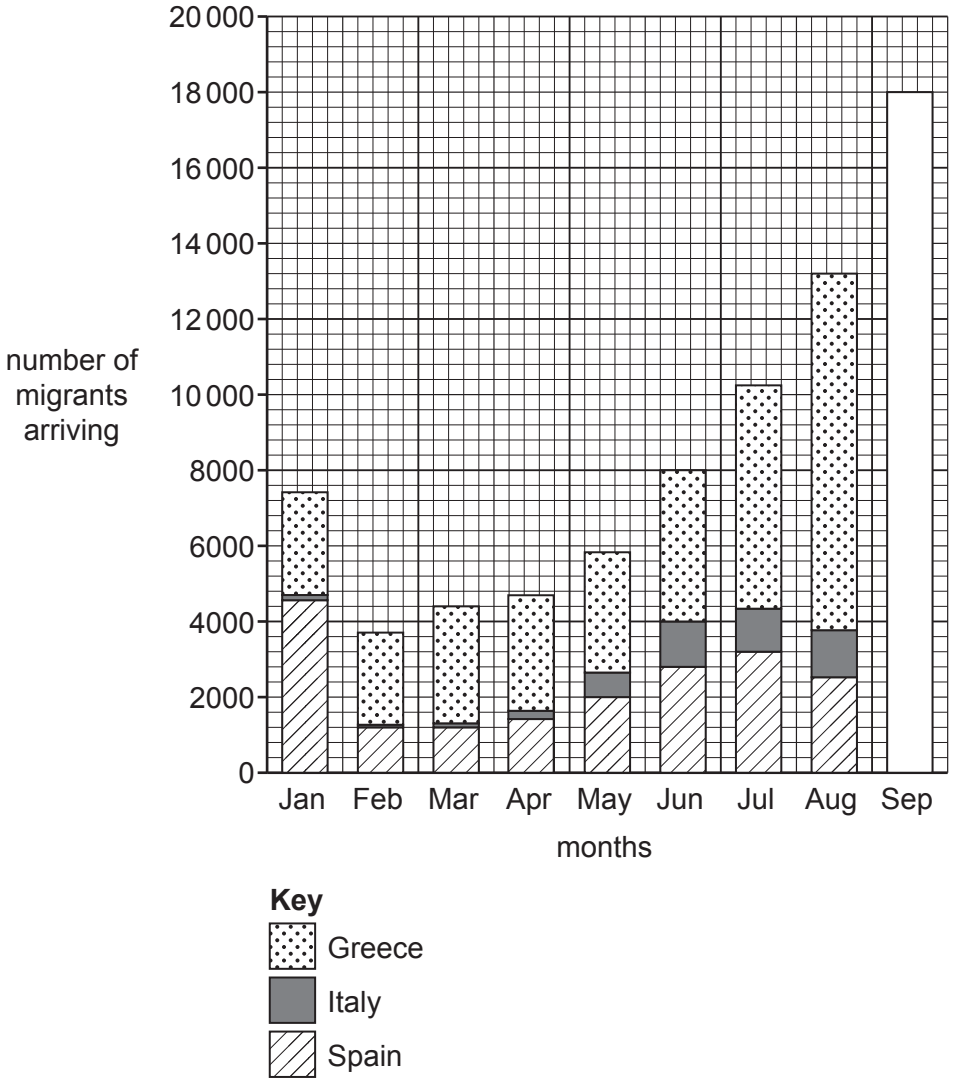


Fig. 1.2

(i) **Complete Fig. 1.2** by plotting the following information for September 2019:

Greece = 11 000 migrants
Italy = 3500 migrants
Spain = 3500 migrants

[3]

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(ii) Describe the problems which many **migrants** may face after migrating to Greece, Italy or Spain.

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(c) For a country you have studied with a high **dependent** population, describe the problems caused by this population structure.

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[Total: 25]

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2 **(a)** Study Fig. 2.1 (Insert), which is a map showing land use in Bhagalpur, a city in India (an LEDC in Asia).

(i) What is the distance along the railway line from the railway junction south east of the CBD to the eastern boundary of Bhagalpur?

..... km [1]

(ii) Describe the distribution of shops and services in Bhagalpur.

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..... [2]

(iii) State **three** likely differences between the shops and services in the CBD of Bhagalpur and those in the area labelled **X** in Fig. 2.1.

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..... [3]

(iv) Using evidence from Fig. 2.1 **only**, explain **two** likely reasons for the growth of many shops and services in area **X**.

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2 .....

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..... [4]

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(b) Study Fig. 2.2 (Insert), which is a sketch map showing information about the spheres of influence of two shops in an urban area.

(i) Using information from Fig. 2.2 **only**, compare the sphere of influence of the general store and the large supermarket.

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..... [3]

(ii) Explain why a general store and a large supermarket will have different spheres of influence.

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[Turn over

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(c) For a named urban area you have studied, describe the methods used to improve the **housing conditions** of the people who live there.

Name of urban area .....

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Section B

Answer **one** question from this section.

3 **(a)** Study Fig. 3.1, which shows information about the impacts of two of the most devastating earthquakes which have occurred this century.

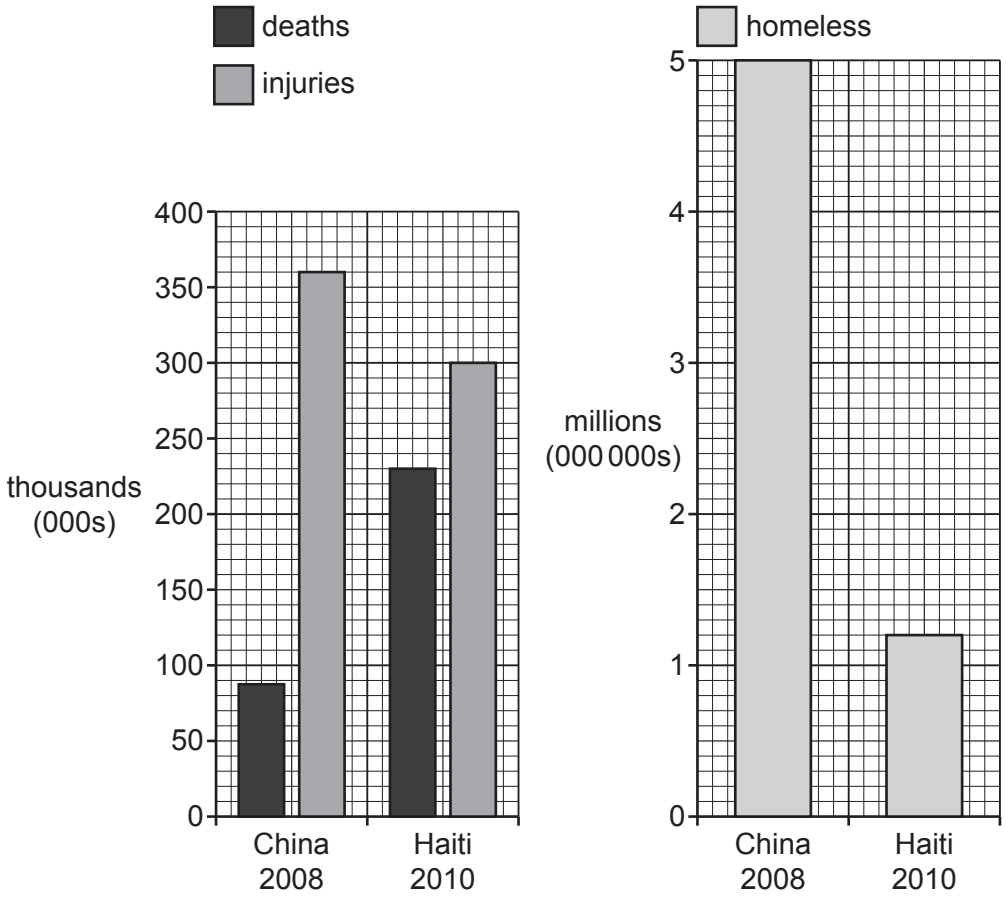


Fig. 3.1

(i) How many people were made homeless as a result of the earthquake in Haiti in 2010?

..... million [1]

(ii) Compare the number of deaths and injuries caused by the earthquakes in China and Haiti.
Do **not** use statistics in your answer.

deaths .....

.....

injuries .....

..... [2]

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(iii) In Haiti over 70% of the population live on less than US$2 per day.
Suggest how this contributed to the large number of deaths and injuries caused by the earthquake in Haiti.

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..... [3]

(iv) Describe the likely effects of severe earthquakes, such as those in China and Haiti, on the economies of the countries.

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..... [4]

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(b) Study Fig. 3.2, which is a map showing information about the location and magnitude of earthquakes in Alaska, USA (an MEDC in North America).

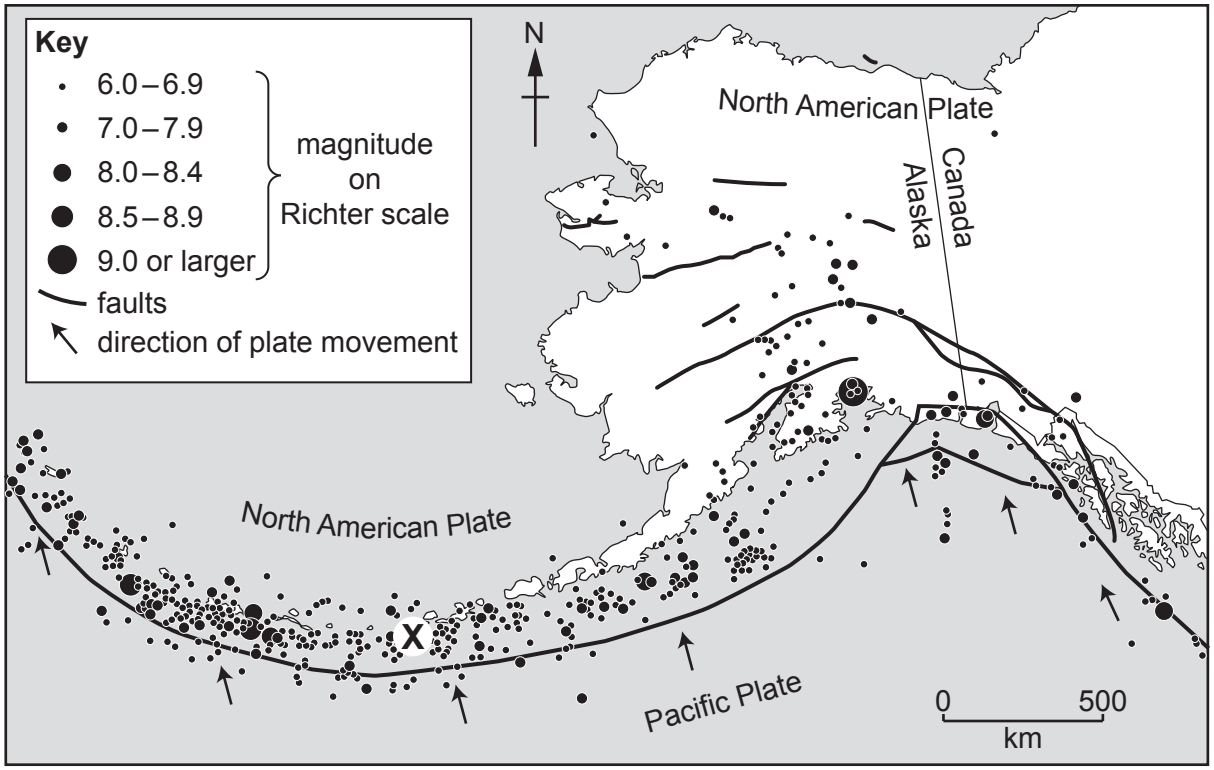


Fig. 3.2

(i) Describe the distribution of earthquakes shown in Fig. 3.2.

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(ii) Suggest how physical (natural) processes cause earthquakes in the area marked **X** on Fig. 3.2.

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(c) For a named example you have studied, describe the impacts of a **volcanic eruption**.

Name of example .....

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4 **(a)** Study Fig. 4.1, which shows the weather recorded in Olsztyn, Poland, for a week in June 2019, along with Fig. 4.2 (Insert), a photograph of the sky taken one day during that week.

Weather observations – Olsztyn 1–7 June 2019

date	maximum temperature (°C)	minimum temperature (°C)	air pressure (mb)	wind speed (km/h)	wind direction	precipitation (mm)	cloud cover (oktas)
1 June	16	9	1002	23	NW	2.75	4
2 June	20	12	1008	18	W	4	3
3 June	23	13	1015	5	S	0	1
4 June	24	14	1018	2	SE	0	0
5 June	21	12	1010	11	SE	1	3
6 June	19	10	1006	10	SW	4	6
7 June	17	10	998	19	W	9.5	8

Fig. 4.1

(i) Identify the type of cloud shown in Fig. 4.2.

..... [1]

(ii) Using Fig. 4.1, suggest the date in June 2019 when you think the photograph shown in Fig. 4.2 was taken.
Give a reason for your answer.

date .....

reason .....

..... [2]

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[Turn over

(iii) Explain how a maximum and minimum thermometer (Six's thermometer) was **used** to collect the information on temperature in Fig. 4.1.

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..... [3]

(iv) Name the traditional weather instruments used to collect information on air pressure, wind speed, wind direction and precipitation.

air pressure .....

wind speed .....

wind direction .....

precipitation ..... [4]

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(b) Study Fig. 4.3, which is a diagram showing the monthly average cloud cover at Bodrum, Turkey.

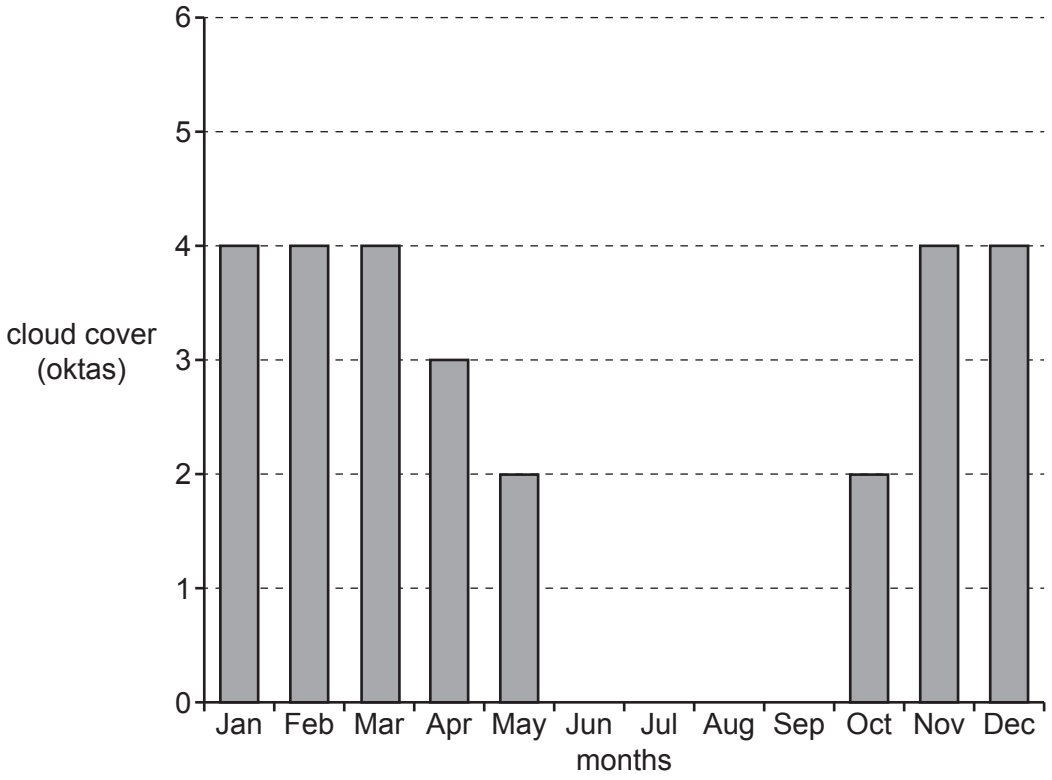


Fig. 4.3

(i) Using Fig. 4.3 **only**, describe the seasonal variation in the amount of cloud at Bodrum. Do **not** use statistics in your answer.

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(ii) Explain how data on cloud cover and cloud type can be collected over a period of a month.

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(c) For a named **river** you have studied, describe the impacts of flooding.

Name of river .....

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Section C

Answer **one** question from this section.

5 **(a)** Study Fig. 5.1 (Insert), which is a map showing information about industry in Croatia (an MEDC in Europe), along with Figs. 5.2, 5.3 and 5.4 (Insert) which are photographs taken in part of Croatia where the tourist industry is important.

(i) Name the settlement in the north west of Croatia where tourism and shipbuilding are important.

..... [1]

(ii) Cruise ships take tourists along the coast of Croatia. What is the distance and direction they will travel from Split to Dubrovnik?

distance ..... km

direction ..... [2]

(iii) Using Figs. 5.2, 5.3 and 5.4 (Insert) **only**, identify one different tourist attraction shown in each photograph.

Fig. 5.2

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Fig. 5.3

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Fig. 5.4

..... [3]

(iv) Describe the benefits of the tourist industry to the people who live in Croatia.

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..... [4]

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(b) Study Fig. 5.5, which shows information about the number of tourists visiting Croatia between 2006 and 2019.

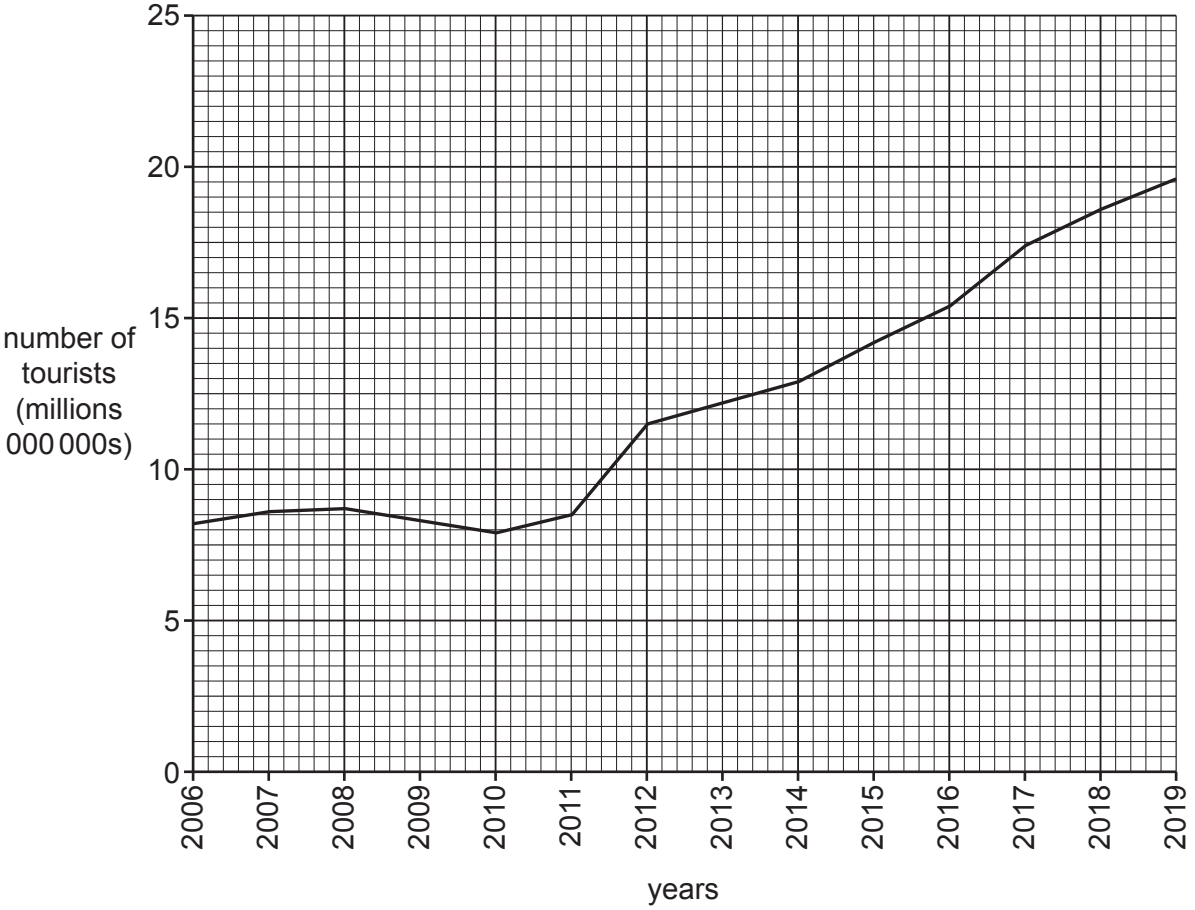


Fig. 5.5

(i) Describe the changes in the number of tourists visiting Croatia between 2006 and 2019. You may use statistics to support your answer.

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(ii) Suggest reasons why the number of tourists visiting a country may change from year to year.

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(c) For a named tourist area you have studied, describe the problems tourism causes for people and the natural environment.

Name of tourist area .....

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6 **(a)** Study Fig. 6.1, which shows the employment structure of Italy (an MEDC) and Nigeria (an LEDC) in 1990 and 2020.

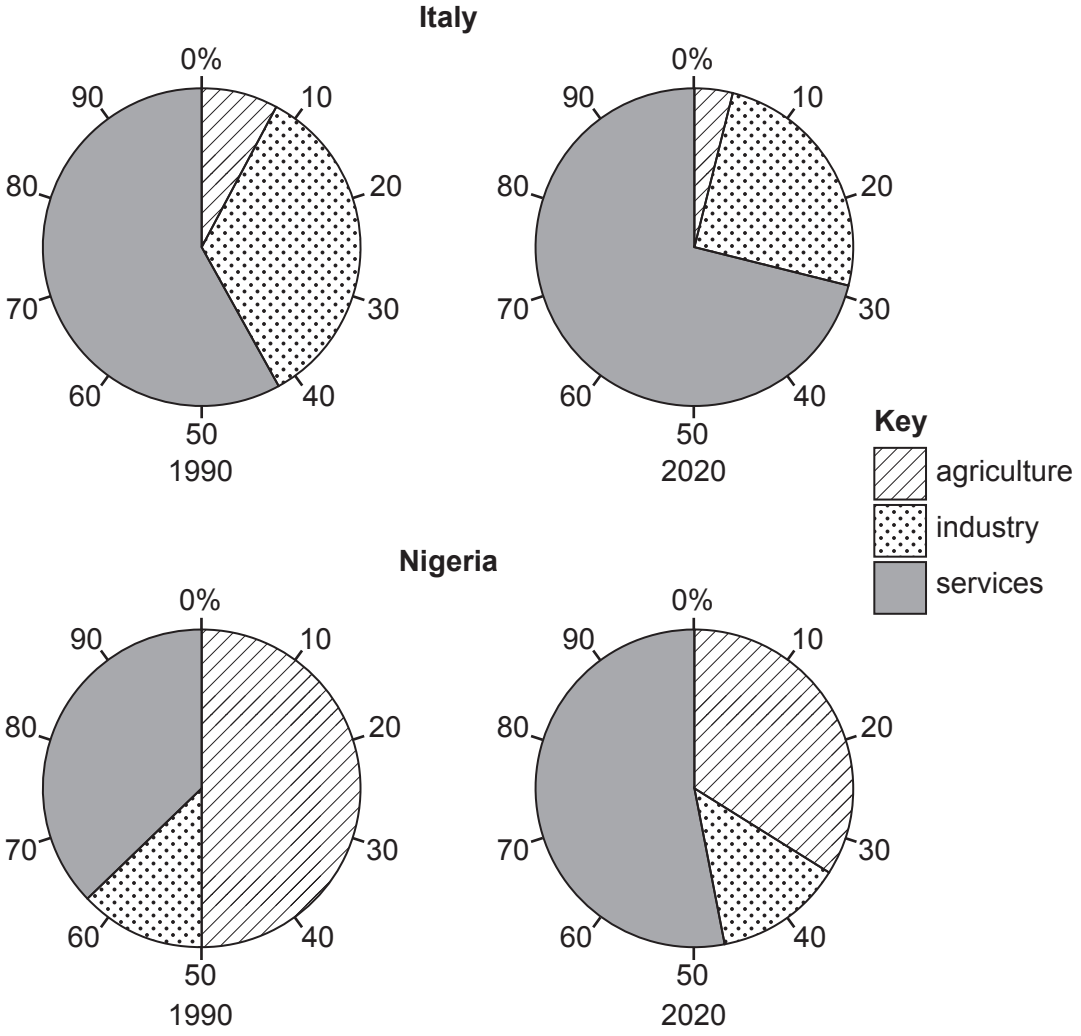


Fig. 6.1

(i) What percentage of the working population was employed in industry in Italy in 1990?

..... % [1]

(ii) Identify **one** similarity and **one** difference between the employment structures of Italy and Nigeria in 2020.

similarity .....

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difference .....

..... [2]

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(iii) Compare the changes which have taken place in the employment structure of Italy and Nigeria between 1990 and 2020.
Do **not** use statistics in your answer.

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(iv) Suggest reasons for the changes in the employment structure of Nigeria (an LEDC) which have taken place between 1990 and 2020.

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(b) Study Fig. 6.2, which shows information about brick manufacturing.

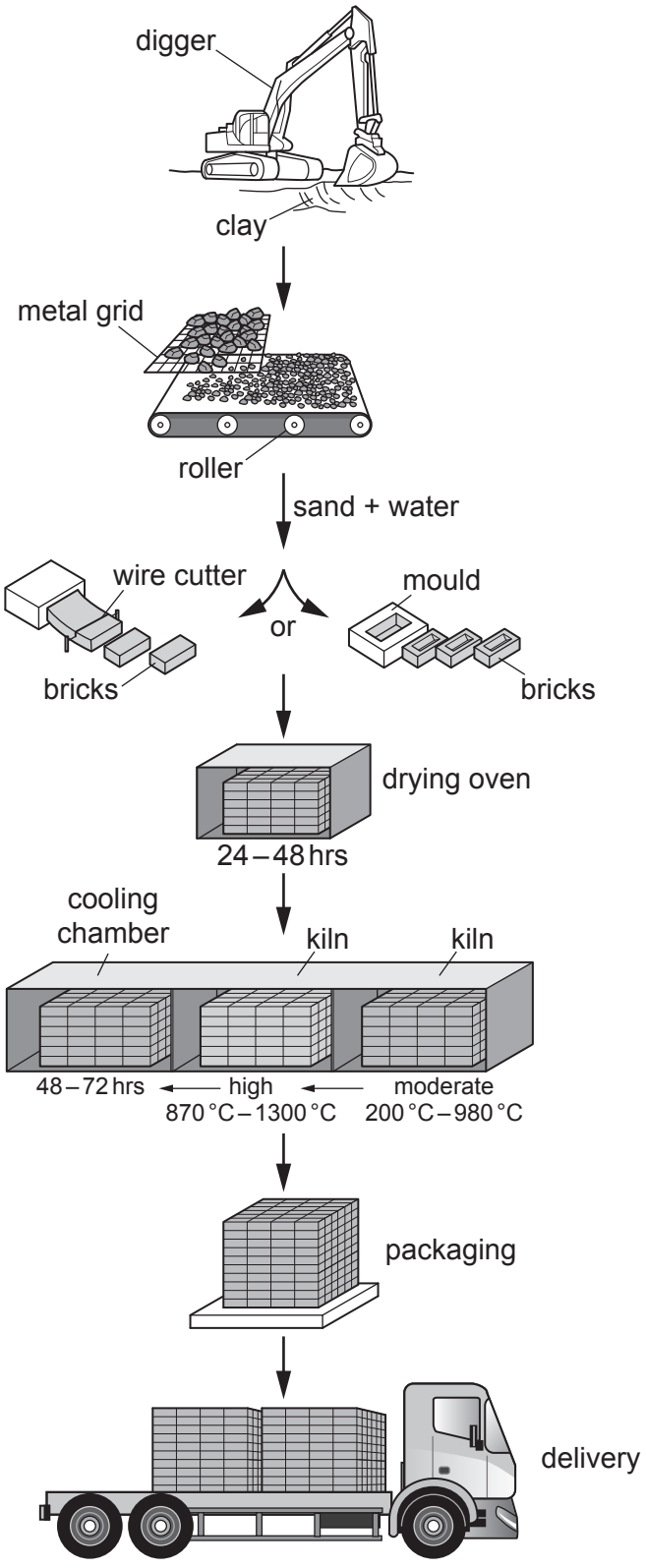


Fig. 6.2

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(i) **Complete the table** below by inserting the following words to show examples of inputs, processes and outputs of the brick manufacturing industry shown in Fig. 6.2.

cutting bricks	electricity	smoke/fumes
bricks	rolling the clay	sand

Inputs	Processes	Outputs
.....	.....	.....
.....	.....	.....

[3]

(ii) Suggest how the natural environment may be at risk from brick manufacturing.

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(c) For a named example of a factory or industrial zone you have studied, explain the factors which influence its location.

Name of factory or industrial zone .....

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Additional pages

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