Cambridge Assessment International Education

Cambridge IGCSE™

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

3026254205

GEOGRAPHY **0460/22**

Paper 2 Geographical Skills **October/November 2022**

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
1:25 000 survey map (enclosed)
Calculator
Plain paper
Protractor
Ruler

INSTRUCTIONS

- Answer **all** questions.
- 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 60.
- The number of marks for each question or part question is shown in brackets [ ].
- The insert contains additional resources referred to in the questions.

This document has **16** pages. Any blank pages are indicated.

© UCLES 2022

1 Study the map extract for Largs, Scotland. The scale is 1:25 000.

(a) Fig. 1.1 shows some of the features in the south of the map extract. Study Fig. 1.1 and the map extract and answer the questions below.

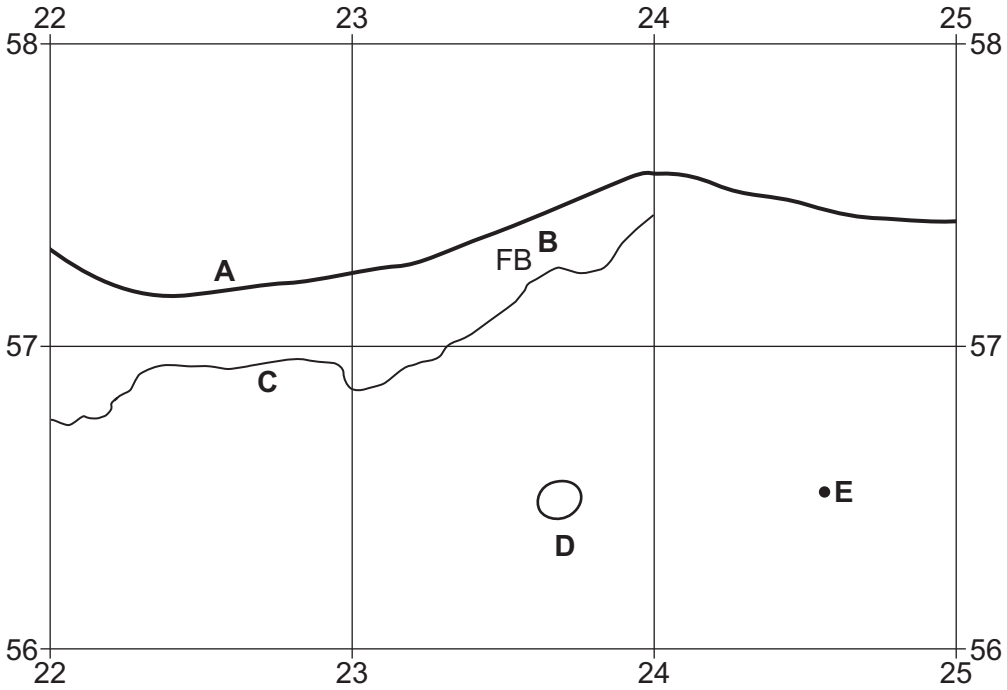


Fig. 1.1

Using the map extract, identify the following features shown in Fig. 1.1:

(i) feature **A**

..... [1]

(ii) feature **B**

..... [1]

(iii) the name of river **C**

..... [1]

(iv) the land use at **D**

..... [1]

(v) the height above sea level of the spot height (survey height) at **E**.

..... metres [1]

(b) Study the map extract.

(i) Using the map extract, measure the distance along the A760 from the parking in grid square 2158 to the parking in grid square 2357.

..... metres [1]

(ii) Measure the bearing **from** the parking in grid square 2158 to the parking in grid square 2357.

..... degrees [1]

(iii) Describe the distribution of trees to the south of the A760.

.....

.....

.....

.....

.....

..... [3]

(c) Using the map extract identify **three** services provided for the population of the town of Largs. Do **not** include tourist attractions.

1 .....

2 .....

3 ..... [3]

(d) Find the main river, the Gogo Water, in the north of the map. Describe the physical features of the river and its valley.

River

.....

.....

.....

.....

.....

.....

.....

.....

Valley

.....

.....

.....

.....

.....

.....

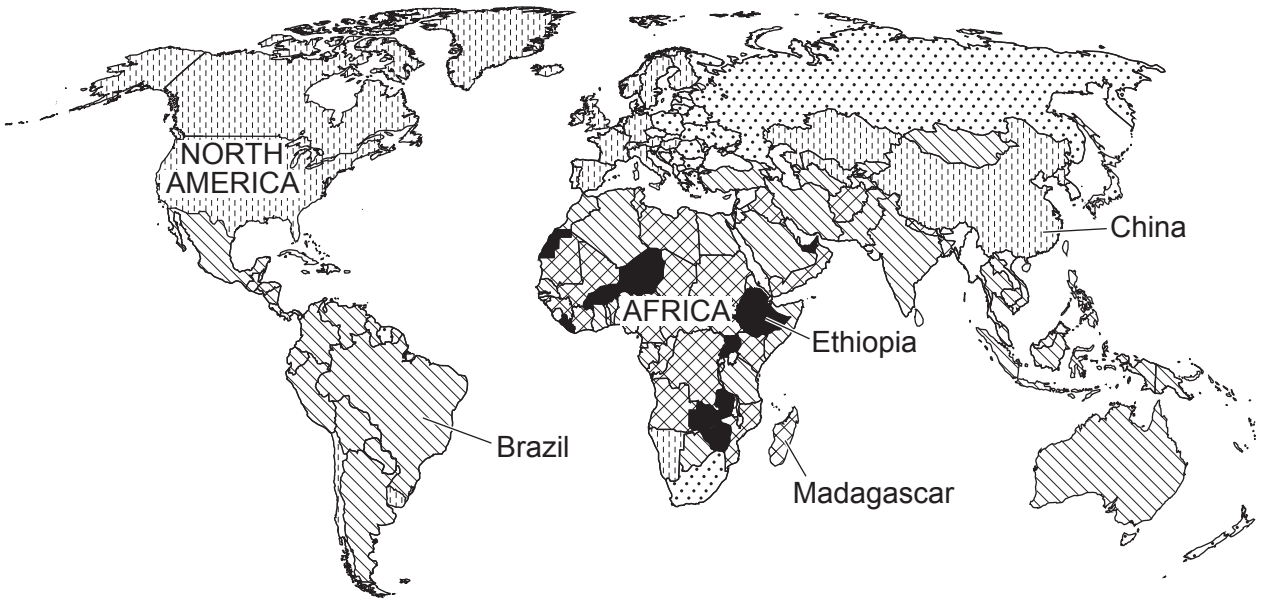
.....

..... [7]

[Total: 20]

TURN PAGE FOR QUESTION 2

2 **(a)** Fig. 2.1 shows information about global population change in 2015.



Key
population growth rate
- more than 3%
- 2–3%
- 1–1.99%
- 0–0.99%
- decrease
- no data

Fig. 2.1

(i) Using Fig. 2.1, put the following countries in rank order from highest to lowest to show their rates of population change.

Brazil China Ethiopia Madagascar

..... highest

.....

.....

..... lowest [2]

(ii) Using Fig. 2.1, compare the rates of population change in Africa and North America. Do **not** use statistics in your answer.

.....

.....

.....

.....

.....

..... [3]

(b) Fig. 2.2 shows information about Madagascar's population.

Using Fig. 2.2 **only**, explain why Madagascar's population growth rate is high.

	1985	**1995**	**2005**	**2015**
birth rate per 1000	44.6	43.7	37.9	33.4
death rate per 1000	16.1	12.7	8.5	6.5
life expectancy (years)	49.6	54.6	61.2	65.6
infant mortality (per 1000 live births)	108.6	84.8	54.8	40.8

Fig. 2.2

.....

.....

.....

.....

.....

..... [3]

[Total: 8]

3 **(a)** Study Fig. 3.1 (Insert), which is a photograph which shows a rural settlement in Spain (an MEDC in Europe).

(i) Describe the housing shown in Fig. 3.1.

.....

.....

.....

..... [2]

(ii) Suggest reasons for the original site and growth of the settlement in Fig. 3.1.

.....

.....

.....

.....

.....

..... [3]

(b) Many rural areas in MEDCs, such as Spain, have a declining population. Suggest **three different** reasons for this.

1 .....

.....

2 .....

.....

3 .....

..... [3]

[Total: 8]

© UCLES 2022

4 Fig. 4.1 (Insert) shows a coastal area in Indonesia which is popular with tourists.

(a) Describe the physical landscape features shown in Fig. 4.1.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

(b) Suggest how and why the natural feature, labelled **A** in Fig. 4.1, may change in the future.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [3]

[Total: 8]

5 **(a)** Fig. 5.1 shows information about fertiliser use and cereal crop production in part of China.

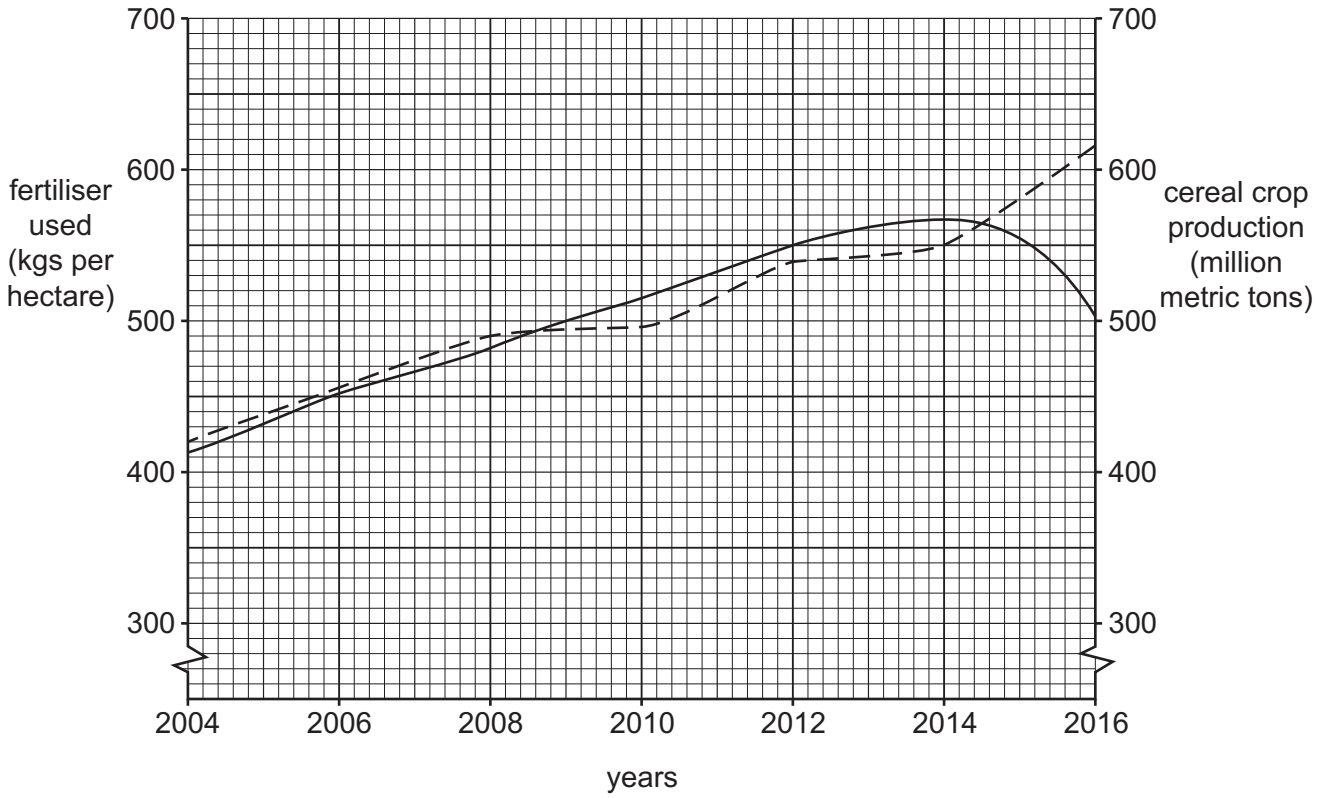


Fig. 5.1

(i) What was the amount of cereal crop production in 2014?

..... million metric tons [1]

(ii) Describe the relationship between fertiliser use and cereal crop production shown in Fig. 5.1.

.....

.....

.....

.....

.....

..... [3]

© UCLES 2022

(b) Fig. 5.2 describes an agricultural project which has been introduced in part of China.

Millions of Chinese farmers have taken part in an agricultural project. The project has involved a large investment in research and training. The aim has been to continue to produce enough food for China's rising population. Workshops and training gave advice on which crops to plant, when to plant and how much fertiliser to use. The project has reduced the application of fertiliser by 1.2 million tons, reducing the amount of fertiliser runoff which causes water pollution. This reduction in fertiliser used has saved 12.2 billion US dollars.

Fig. 5.2

(i) Use evidence from Fig. 5.2 to show that this is a good example of sustainable agriculture.

.....

.....

.....

.....

.....

..... [3]

(ii) Suggest **one** reason why it might be difficult for some LEDCs to undertake this type of project.

.....

..... [1]

[Total: 8]

6 Fig. 6.1 shows the employment structure for countries with different incomes in 2019.

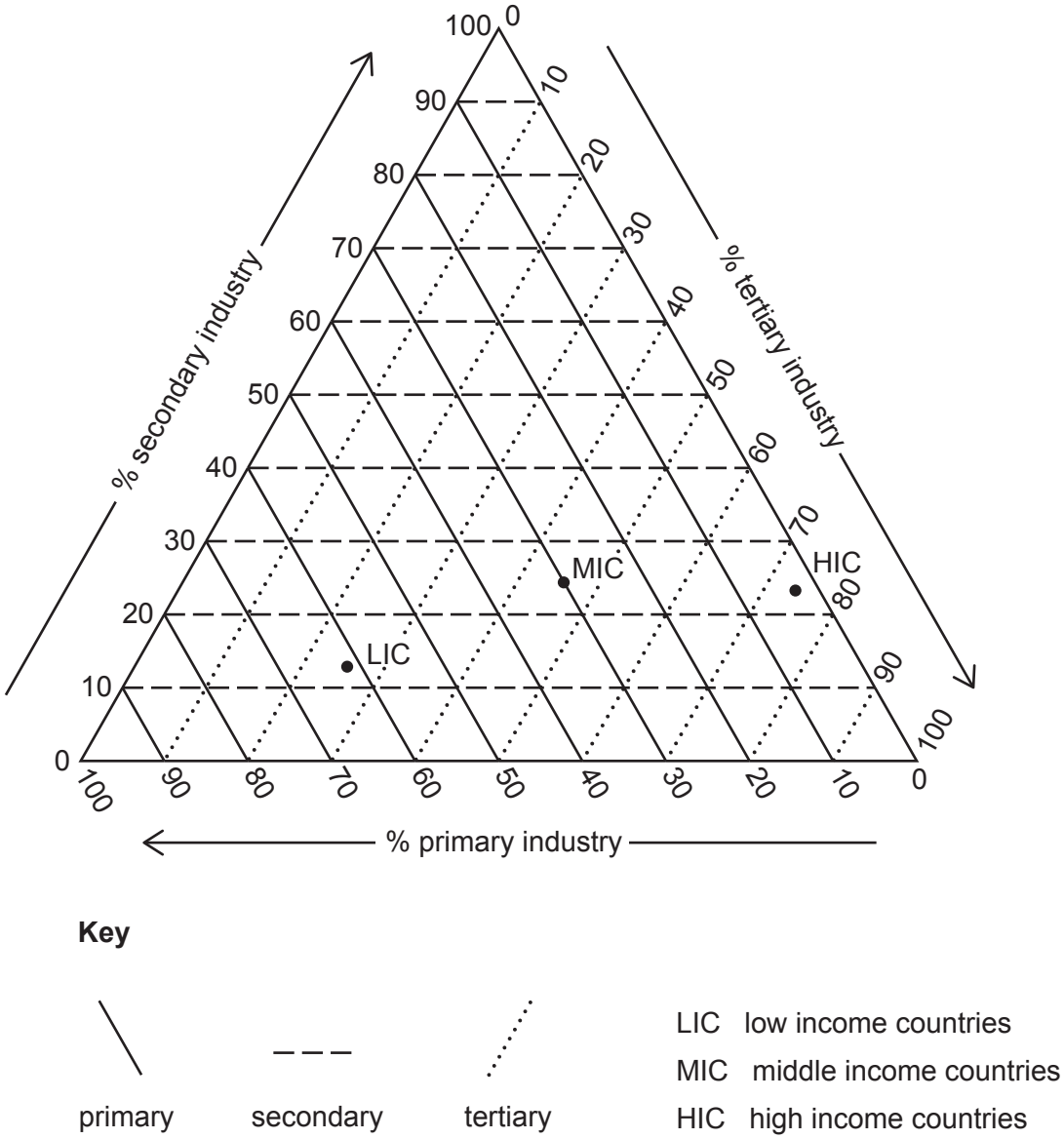


Fig. 6.1

(a) Using Fig. 6.1, **complete the table** for middle income countries below:

	low income countries	**middle income countries**	**high income countries**
percentage primary employment	62	30	3
percentage secondary employment	12	.....	22
percentage tertiary employment	26	.....	75

[2]

© UCLES 2022

(b) Explain why the employment structure of a country changes as it develops.

.....

.....

.....

.....

.....

.....

.....

..... [4]

(c) State **two** economic benefits of increasing globalisation.

1 .....

.....

2 .....

..... [2]

[Total: 8]

Additional pages

If you use the following pages to complete the answer to any question, the question number must be clearly shown.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

© UCLES 2022

BLANK PAGE

The boundaries and names shown, the designations used and the presentation of material on any maps contained in this question paper/insert do not imply official endorsement or acceptance by Cambridge Assessment International Education concerning the legal status of any country, territory, or area or any of its authorities, or of the delimitation of its frontiers or boundaries.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge Assessment International Education is part of Cambridge Assessment. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which is a department of the University of Cambridge.

© UCLES 2022