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Cambridge Assessment International Education

Cambridge IGCSE™

CANDIDATE NAME									
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3210565369

GEOGRAPHY **0460/21**

Paper 2 Geographical Skills **October/November 2021**

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.

Definitions
MEDC – More Economically Developed Country
LEDC – Less Economically Developed Country

This document has **16** pages.

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1 Study the map extract for Bois de Grandval, France. The scale is 1:25 000.

(a) Fig. 1.1 shows some of the features around the Puy de la Belle-Viste. Study Fig. 1.1 and the map extract and answer the questions below.

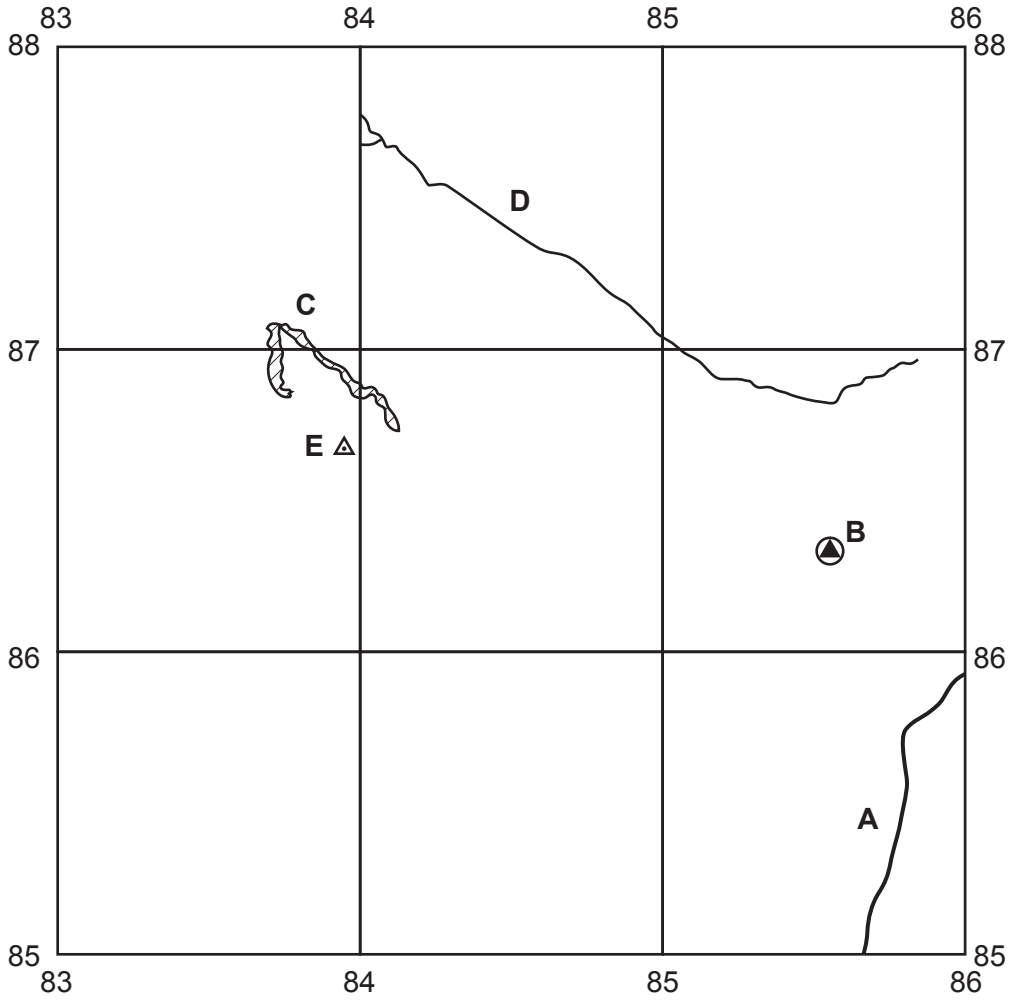


Fig. 1.1

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

(i) feature **A**

..... [1]

(ii) feature **B**

..... [1]

(iii) feature **C**

..... [1]

(iv) the name of river **D**

..... [1]

(v) the height above sea level at the triangulation station (trigonometric point) at **E**.

..... metres [1]

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(b) Fig. 1.2 is a cross-section along northing 875 from 810875 to 840875.

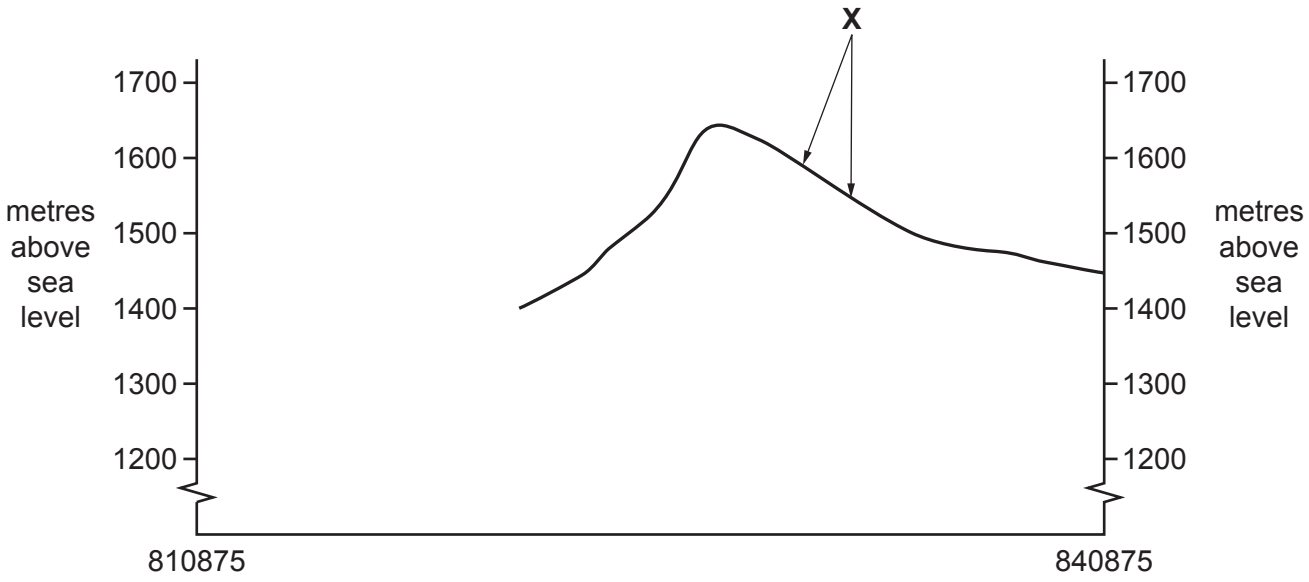


Fig. 1.2

(i) Identify the features at **X**.

..... [1]

(ii) On Fig. 1.2, **use a labelled arrow** to show the position of Puy Gerbel. [1]

(iii) The cross-section shown in Fig. 1.2 is incomplete. Using information from the map extract, draw a line on Fig. 1.2 to **complete the cross-section**. [2]

(c) Describe the distribution of the woodland across the area of the map extract.

.....

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.....

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..... [4]

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(d) Fig. 1.3 shows an area in the south east of the map extract.

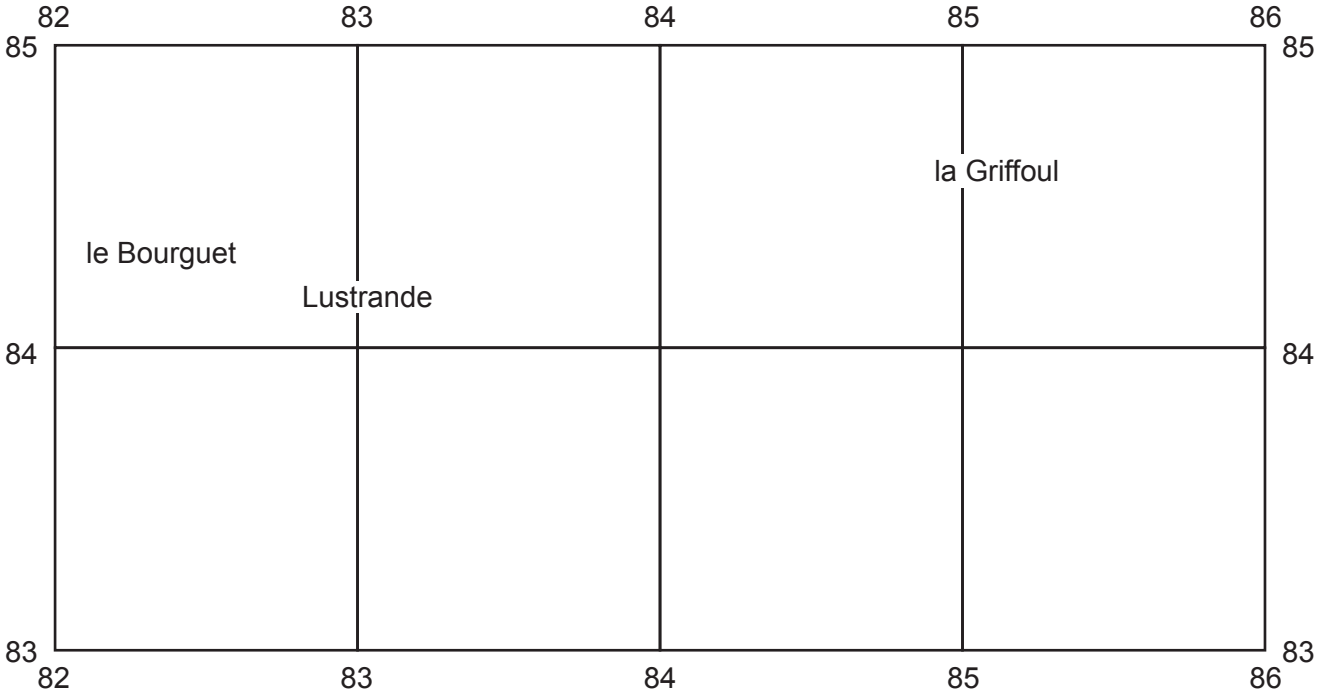


Fig. 1.3

(i) Give the six-figure grid reference of the cemetery which lies between Lustrande and le Bourguet.

……..…… [1]

(ii) How many bridges does the D39 road cross from the cemetery which lies between Lustrande and le Bourguet and the village of la Griffoul?

……. [1]

(iii) Measure the bearing from the cemetery which lies between Lustrande and le Bourguet and the spot height of 1229 metres above sea level at la Griffoul.

……. degrees [1]

(iv) Describe and explain the route of the D39 road between Lustrande and la Griffoul.

.....

.....

.....

.....

.....

.....

..... [4]

[Total: 20]

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TURN PAGE FOR QUESTION 2

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2 Fig. 2.1 shows the distribution of population in southern Pakistan and Fig. 2.2 shows the severity of drought in southern Pakistan.

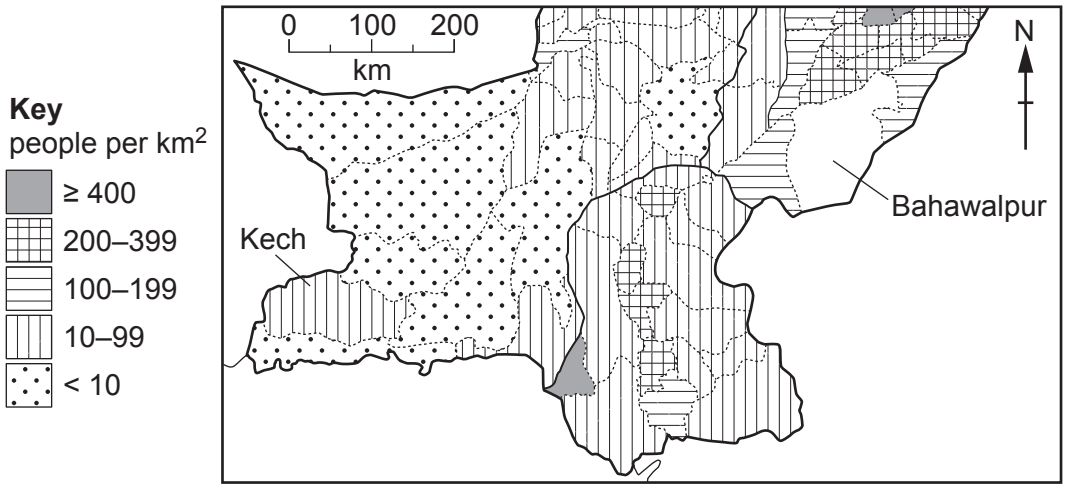


Fig. 2.1

(a) (i) Calculate the actual population density for Kech.

total population = 606 980

total area = 22 539 km^2

population density of Kech …… people per km^2. [1]

(ii) **Complete Fig. 2.1** for Bahawalpur which has a population density of 80 people per km^2. [1]

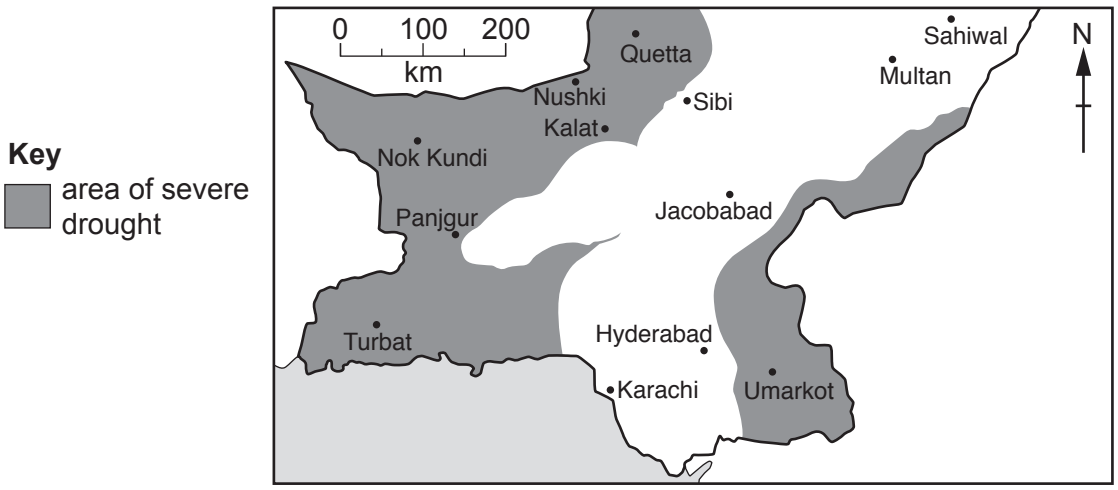


Fig. 2.2

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(b) (i) Using Figs. 2.1 and 2.2 **only**, describe to what extent severe drought is likely to affect the population in southern Pakistan.

.....

.....

.....

.....

.....

..... [3]

(ii) Suggest **three** factors other than drought which could explain the distribution of areas of low population density in southern Pakistan.

1 .....

.....

2 .....

.....

3 .....

..... [3]

[Total: 8]

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3 **(a)** Study Fig. 3.1 (Insert), which is a photograph showing a shopping area in England, an MEDC.

State which urban zone is shown in the photograph and give **three** reasons for your choice.

Urban zone ……

1 .....

.....

2 .....

.....

3 .....

..... [4]

(b) Study Fig. 3.2 (Insert), which is a photograph of a different type of shopping zone in the rural-urban fringe of a town in England.

Using Fig. 3.2, suggest **four** reasons why people may prefer to shop in this area.

1 .....

.....

2 .....

.....

3 .....

.....

4 .....

..... [4]

[Total: 8]

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4 Fig. 4.1 (Insert) shows the location of the Katse Dam. The Katse Dam was created to provide water to Johannesburg from the country of Lesotho.

(a) Using Fig. 4.1, answer the following questions:

(i) In which country is Johannesburg located?

…… [1]

(ii) What is the distance between the Katse Dam and Johannesburg?

…… km [1]

(iii) In which general direction does the Vaal River flow? Circle your answer below.

north-east north-west south-west south-east [1]

(b) Study Fig. 4.2, which is part of a newspaper article about the Katse Dam.

> The Katse Dam is an extremely important development. Lesotho has low national domestic water consumption. Lesotho will gain a large income from the sale of the water from the dam to Johannesburg. The reservoir which was created has a total capacity of 1950 km^3 and flooded a large highland area with a high annual rainfall. The reservoir flooded many small farming communities.

Fig. 4.2

(i) Using Fig. 4.2 **only**, identify a physical advantage of the area for the dam.

..... [1]

(ii) The Katse Dam has affected the lives of the highland farming communities in Lesotho. Suggest **two** advantages and **two** disadvantages of the dam for the local farmers and their families.

Advantages

1 .....

.....

2 .....

.....

Disadvantages

1 .....

.....

2 .....

..... [4]

[Total: 8]

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5 Study Fig. 5.1, which shows the results of wind measurements measured at a weather station for a period of one month.

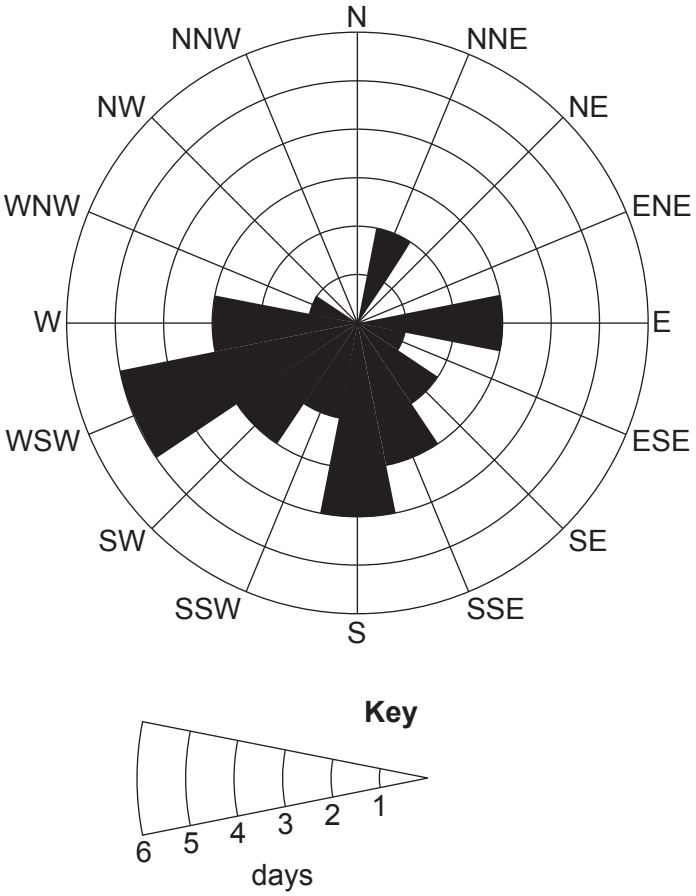


Fig. 5.1

(a) (i) Name the type of graph shown in Fig. 5.1.

..... [1]

(ii) Using Fig. 5.1, identify how many days in the month the wind was blowing from the south.

…… days [1]

(iii) Using Fig. 5.1, identify the prevailing wind direction in the month.

..... [1]

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(b) Fig. 5.2 is a display screen of a digital thermo-hygrometer.

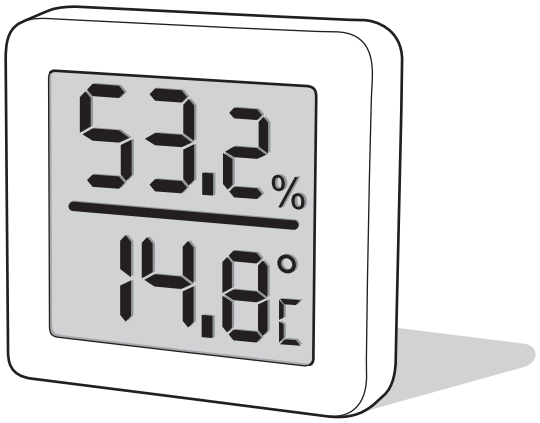


Fig. 5.2

What **two** weather characteristics does the digital thermo-hygrometer measure?

1 .....

.....

2 .....

..... [2]

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(c) Fig. 5.3 is a traditional maximum-minimum thermometer.

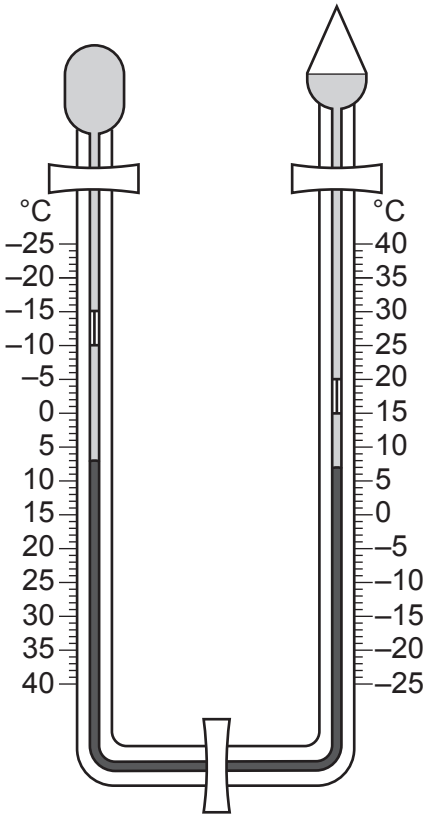


Fig. 5.3

Using the information shown on the instrument in Fig. 5.3, state the:

(i) present temperature

…… [1]

(ii) maximum temperature since the instrument was re-set

…… [1]

(iii) minimum temperature since the instrument was re-set.

…… [1]

[Total: 8]

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6 The Human Development Index (HDI) measures levels of human development.

(a) Which **three** development indicators does HDI use?

1 .....

2 .....

3 ..... [3]

(b) Fig. 6.1 shows the change over time in the Human Development Index for three countries from 1975 to 2015.

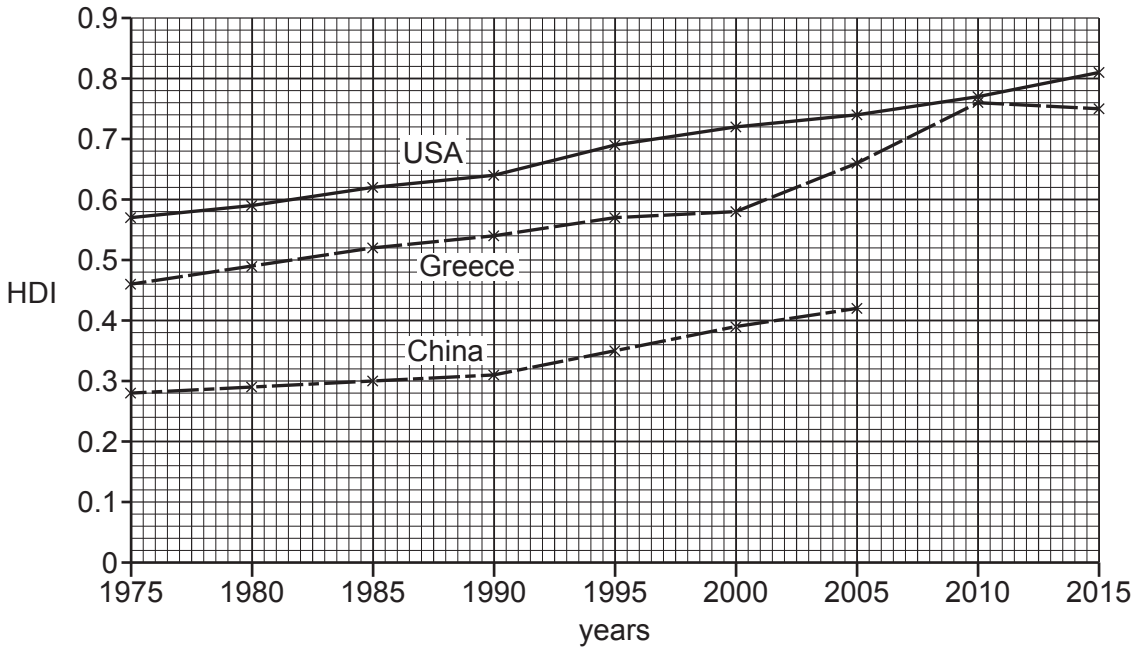


Fig. 6.1

(i) Using Fig. 6.1, **complete the graph** using the statistics below.

2010 HDI in China was 0.48
2015 HDI in China was 0.54

[1]

(ii) Using Fig. 6.1, compare the change over time between the USA and Greece. Do not use statistics in your answer.

.....

.....

.....

..... [2]

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(iii) Suggest reasons why HDI might vary **within** a country.

.....

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..... [2]

[Total: 8]

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Additional Pages

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

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