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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.

DC (CJ/SGW) 198240/7
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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.

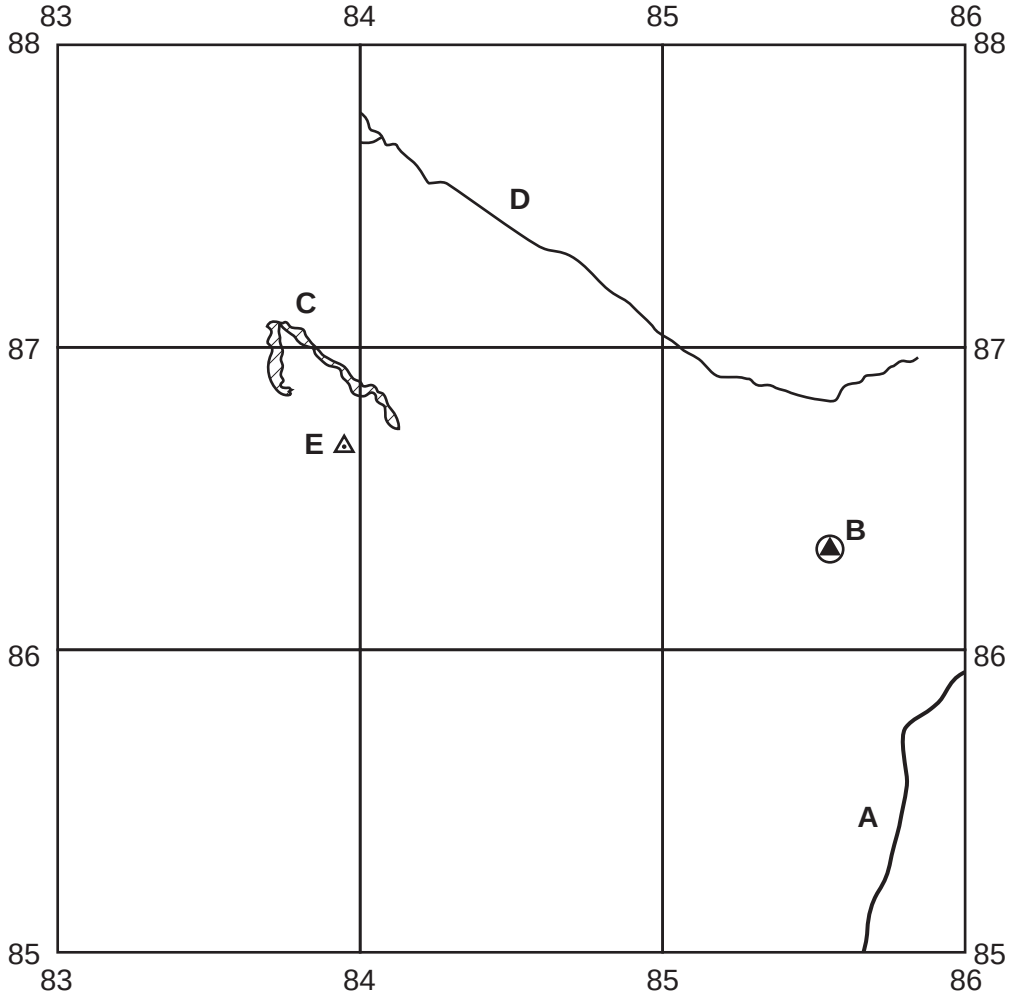

Fig. 1.1

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]

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

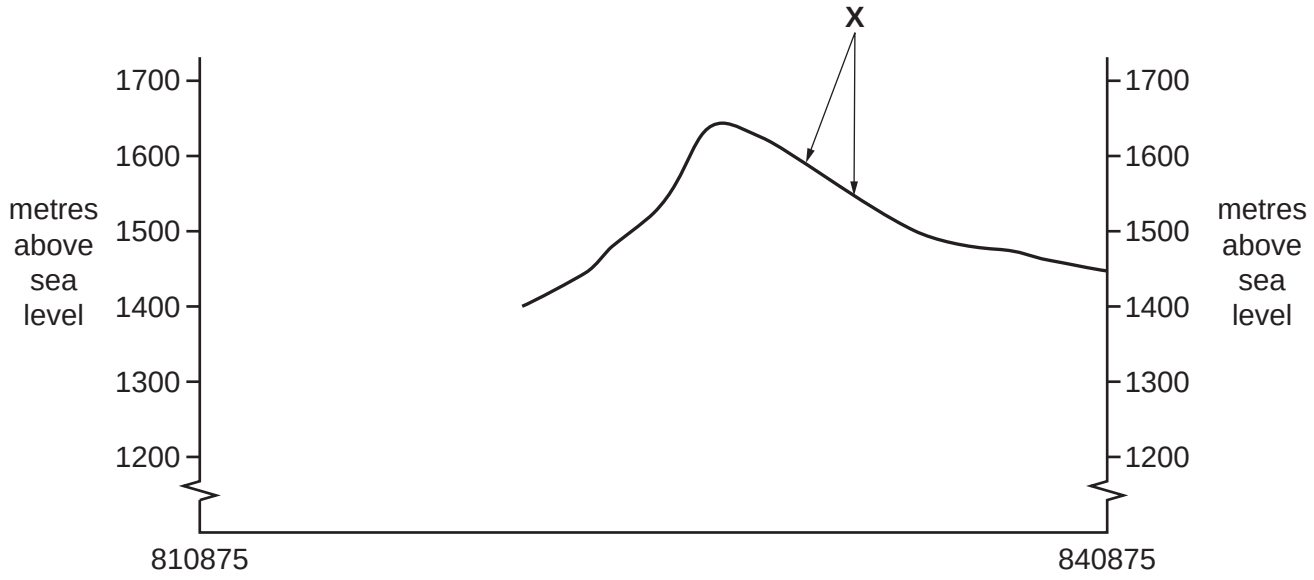

Fig. 1.2

(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.

.....

.....

.....

.....

.....

.....

..... [4]

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

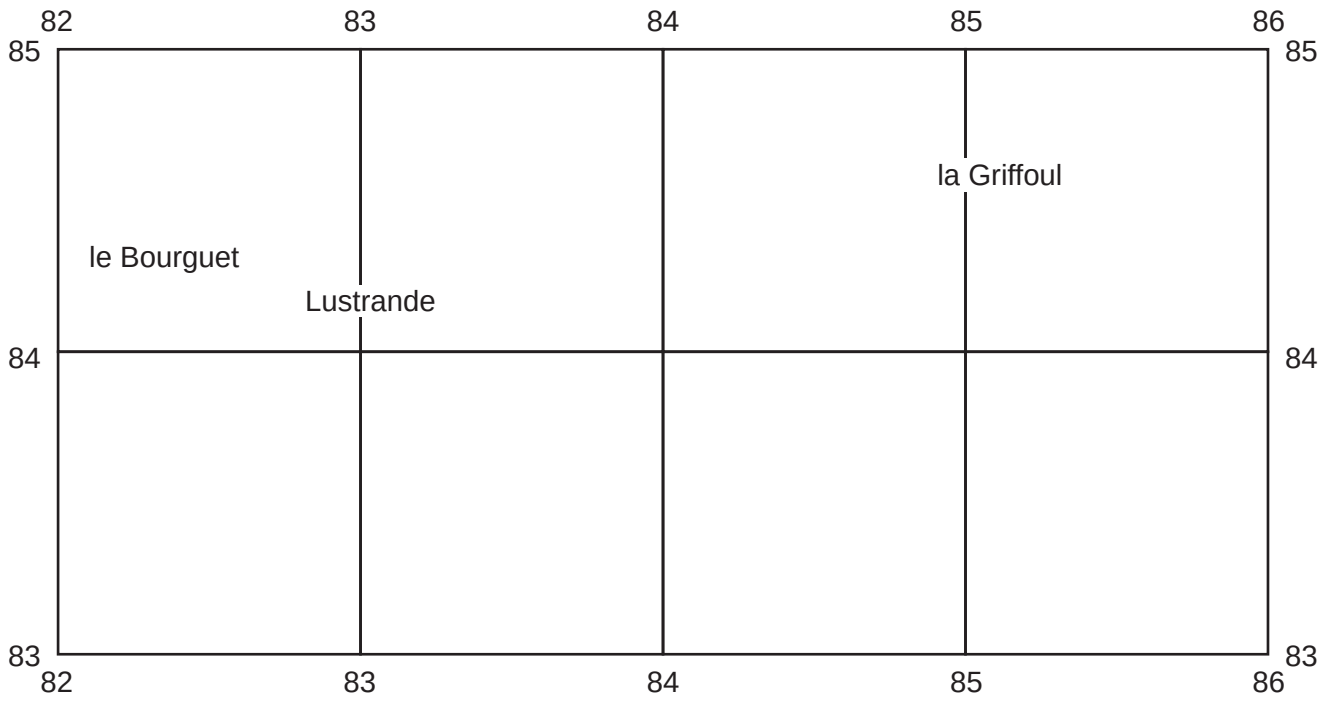

Fig. 1.3

(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]

TURN PAGE FOR QUESTION 2

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

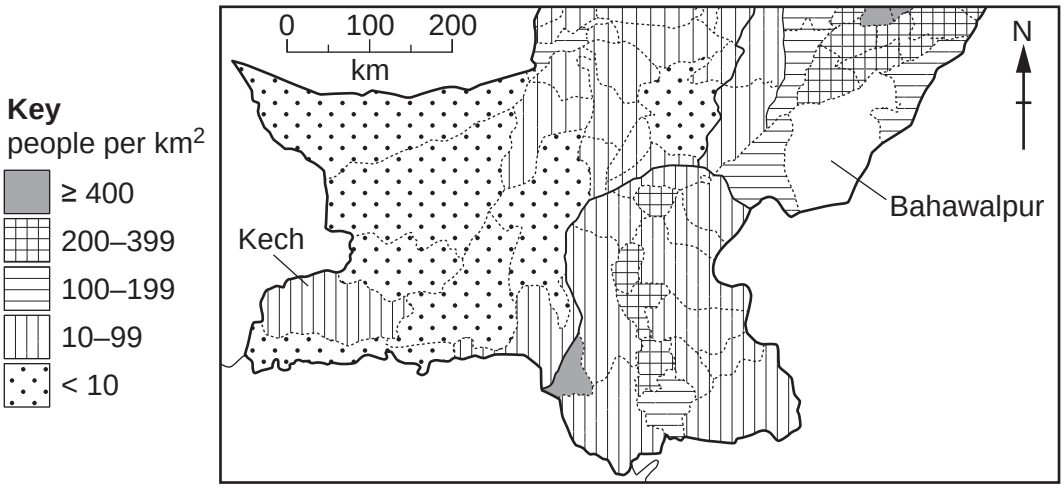

Fig. 2.1

(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]

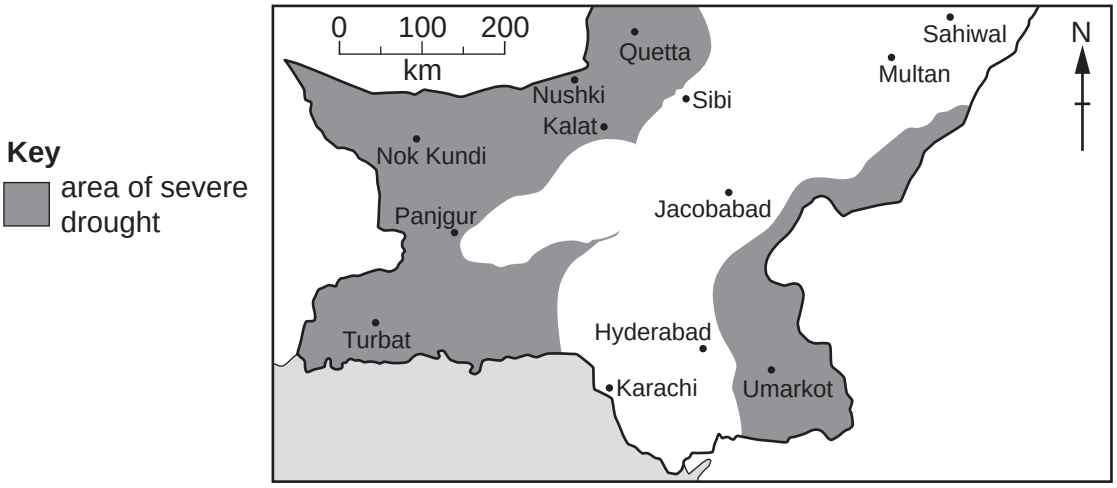

Fig. 2.2

(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]

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]

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]

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

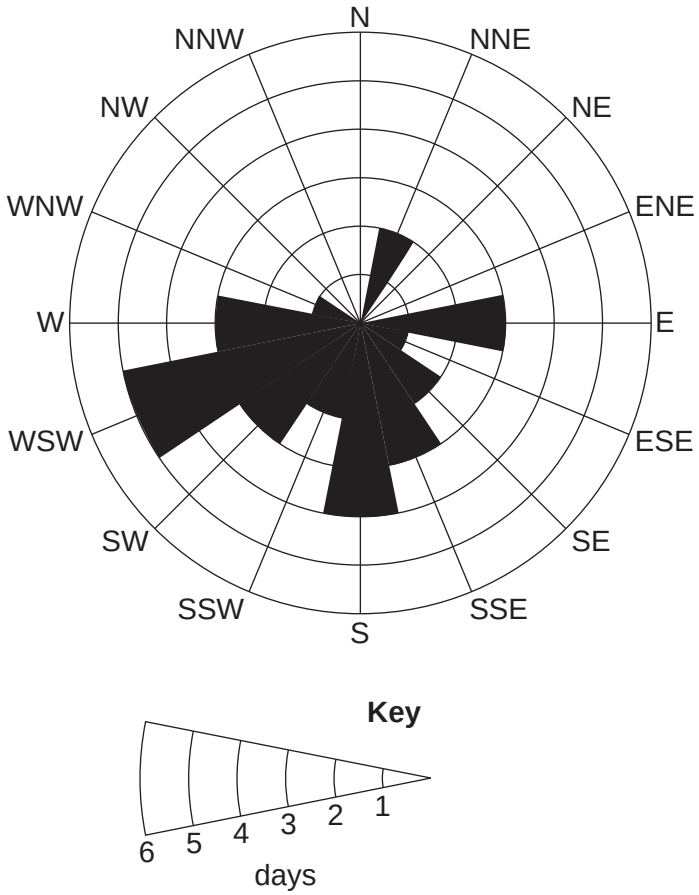

Fig. 5.1

(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]

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

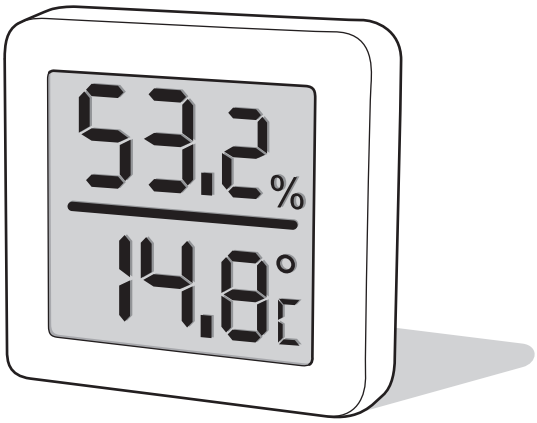

Fig. 5.2

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

1 .....

.....

2 .....

..... [2]

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

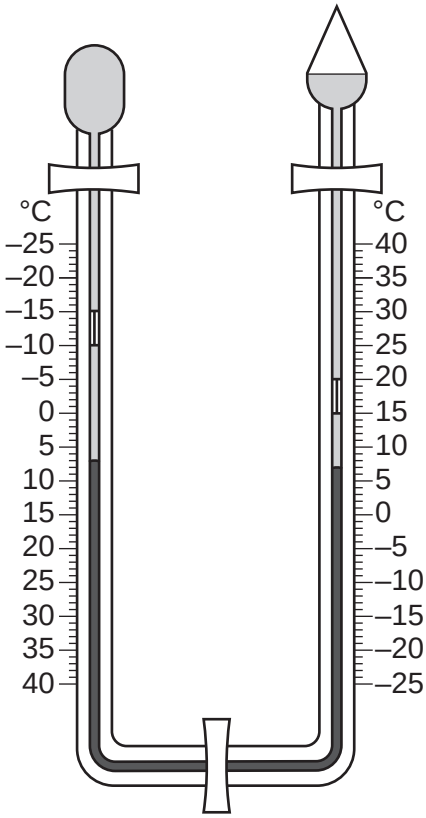

Fig. 5.3

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]

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.

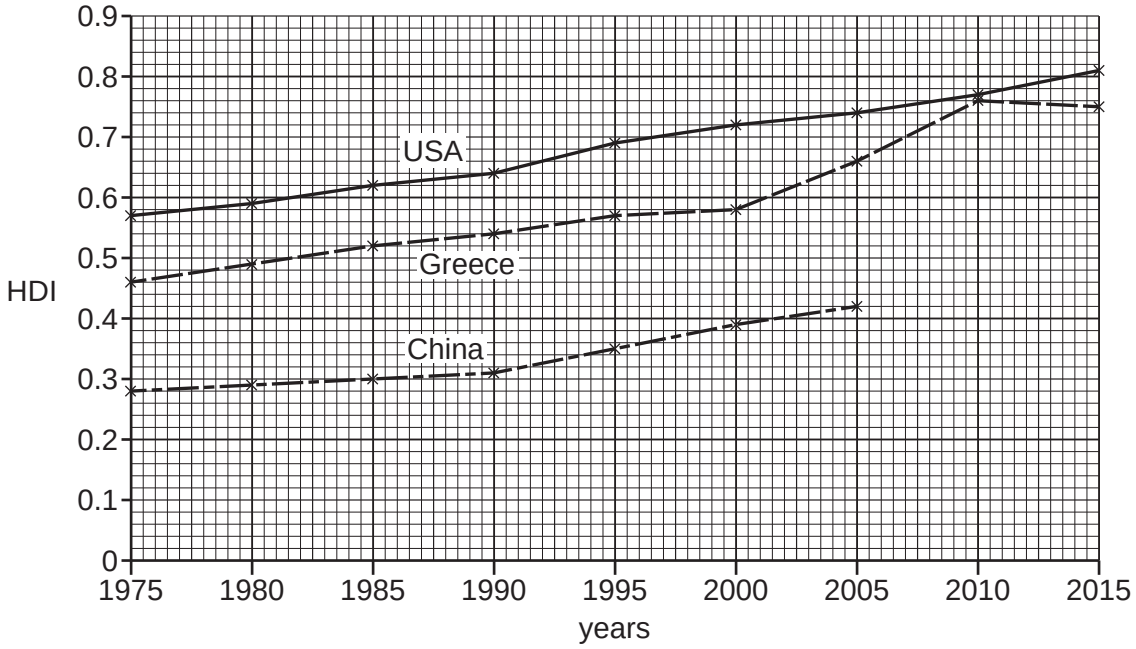

Fig. 6.1

(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]

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

.....

.....

.....

.....

.....

..... [2]

[Total: 8]

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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