GradeMax

Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

GEOGRAPHY **0460/22**

Paper 2 **October/November 2015**

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler
Protractor
Plain paper
Calculator

1:50 000 Survey Map Extract is enclosed with this Question Paper.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.
Write in dark blue or black pen.
You may use an HB pencil for any diagrams or graphs.
Do not use staples, paper clips, glue or correction fluid.
DO **NOT** WRITE IN ANY BARCODES.

Write your answer to each question in the space provided.
If additional space is required, you should use the lined pages at the end of the booklet. The question number(s) must be clearly shown.

Answer **all** questions.

The Insert contains Photographs A and B for Question 2 and Photograph C for Question 5.
The Survey Map Extract and the Insert are **not** required by the Examiner.
Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.
The number of marks is given in brackets [ ] at the end of each question or part question.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **17** printed pages, **3** blank pages and **1** Insert.

DC (KN/FD) 98060/6
© UCLES 2015

CAMBRIDGE International Examinations

[Turn over

GradeMax

1 Study the map extract for Umzingwani River, Zimbabwe. The scale is 1:50 000.

Fig. 1 shows some of the features in the south-west of the map extract.

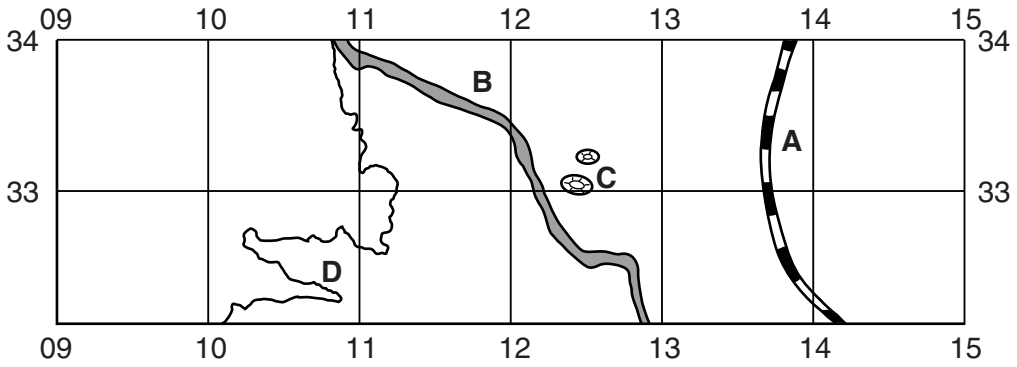


Fig. 1

(a) Using the map extract, identify the following features shown on Fig. 1:

(i) feature **A**;

.....[1]

(ii) the name of river **B**;

.....[1]

(iii) the features at **C**;

.....[1]

(iv) the height above sea level of contour **D**.

..... metres [1]

© UCLES 2015

(b) Find the area of settlement around Mbalabala shown on Fig. 2.

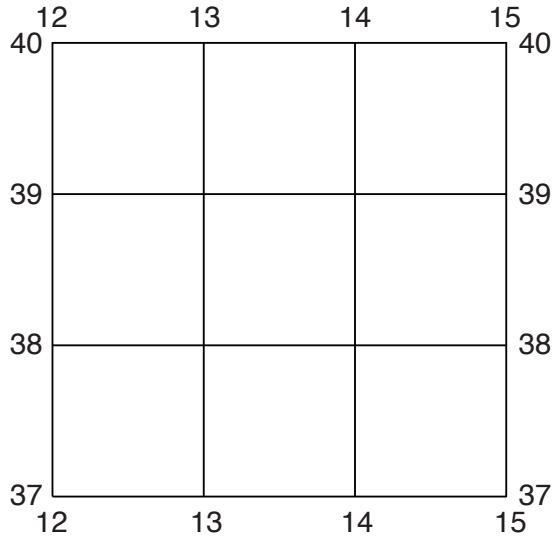


Fig. 2

Give reasons for the growth of settlement in the area shown on Fig. 2.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....[6]

(c) Find the Umzingwani River on the map.

(i) What is the direction of flow of the river? Tick **one** correct statement below.

	Tick (✓)
north to south	
south to north	
east to west	
west to east	

[1]

(ii) Give **one** reason for your answer to **(c)(i)**.

.....

.....[1]

(iii) Other than direction of flow, describe the other natural features of the river.

.....

.....

.....

.....

.....[3]

(d) Measure the distance along the wide tarred road from the bridge over the Umzingwani River to the eastern edge of the map. Give your answer in metres.

..... metres [1]

(e) Find Gcabayi hill in the east of the map extract. What is the six figure grid reference of the top of Gcabayi hill? Tick **one** correct answer below.

	Tick (✓)
246356	
247356	
356246	
357247	
357248	

[2]

(f) Fig. 3 shows the position of some relief features in the north-west of the map extract. The 1100 metre contour has also been marked.

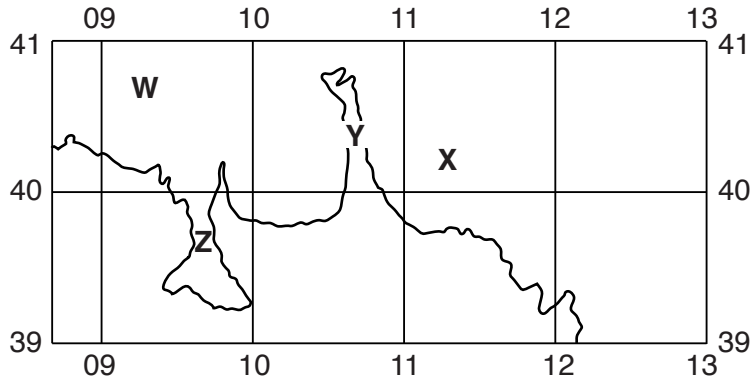


Fig. 3

Which letter, **W**, **X**, **Y** or **Z** shows the position of:

(i) an isolated hill;

..... [1]

(ii) a valley?

..... [1]

[Total: 20 marks]

GradeMax

2 Photographs A and B (Insert) show two coastal areas of the island of Grenada, West Indies.

(a) Describe the following **physical** features shown in Photograph A.

relief

.....

.....

.....

.....

.....

.....

coast

.....

.....

.....

.....

.....

.....

vegetation

.....

.....

.....

.....

[6]

(b) Fig. 4 shows a map of the island.

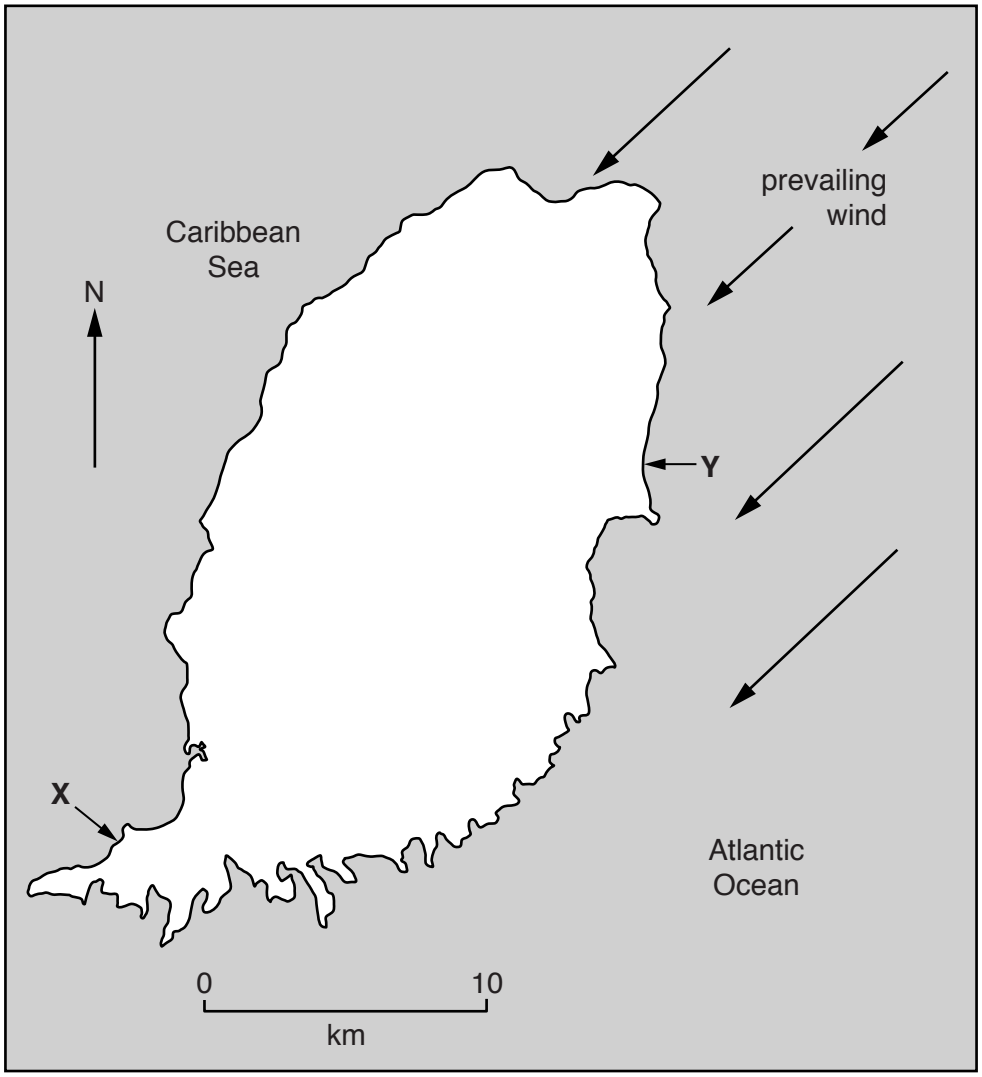


Fig. 4

Photograph A was taken at point **X** on Fig. 4 and Photograph B was taken at point **Y**. Give evidence from Fig. 4 and Photographs A and B to support this.

.....

.....

.....

.....

.....

.....

.....[2]

[Total: 8 marks]

GradeMax

3 Fig. 5 shows the world's tropical deserts and some ocean currents.

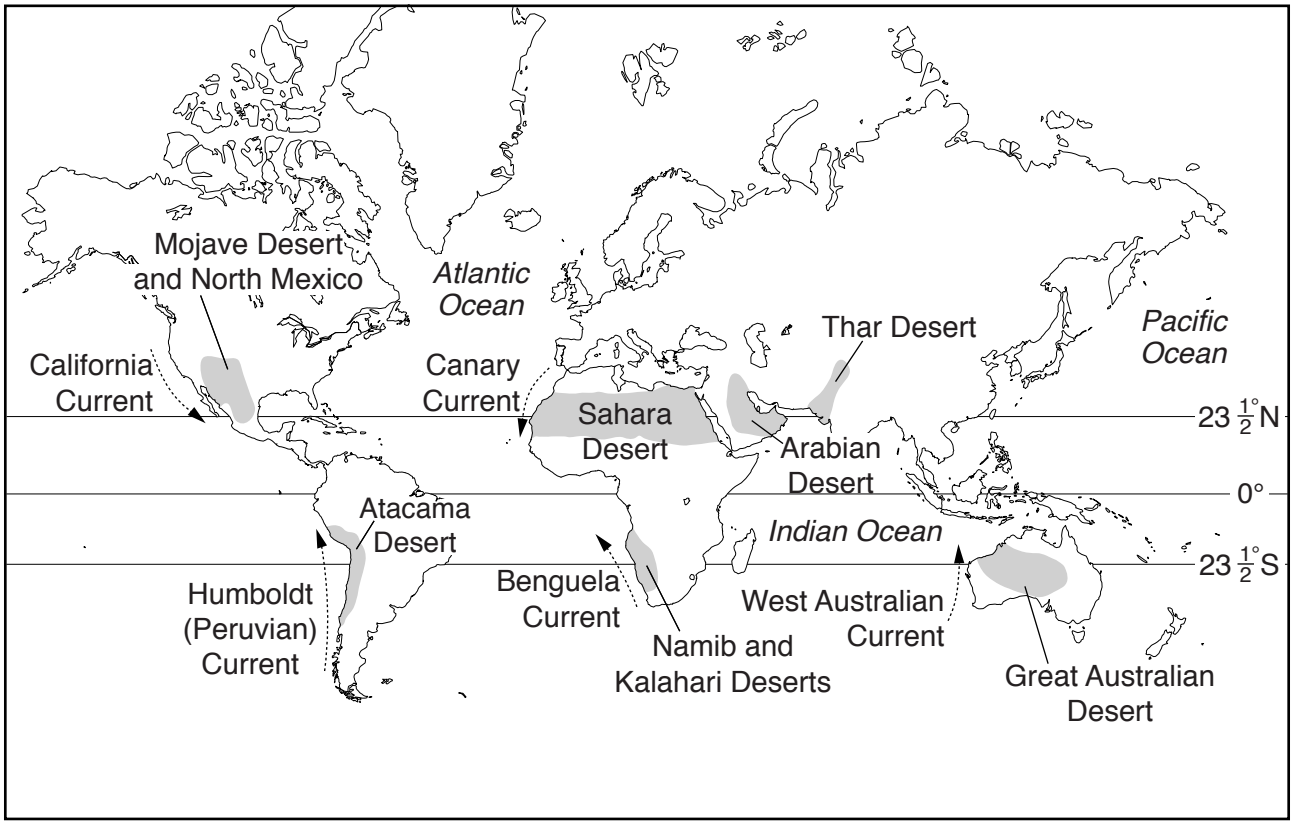


Fig. 5

(a) Describe the distribution of deserts shown on Fig. 5.

.....

.....

.....

.....

.....

.....[3]

(b) All the ocean currents shown on Fig. 5 are cold. Using information from Fig. 5 **only**, give **one** reason for this.

.....

.....[1]

© UCLES 2015

GradeMax

(c) Explain how each of the following features of the vegetation of tropical deserts helps plants to survive in areas of low rainfall.

(i) long tap roots

.....

.....

.....[1]

(ii) small, hairy leaves

.....

.....

.....[1]

(iii) shallow, widely spreading roots

.....

.....

.....[1]

(iv) thick, fleshy stems

.....

.....

.....[1]

[Total: 8 marks]

© UCLES 2015

[Turn over

4 Figs 6, 7 and 8 give information about internal population migration between the nine provinces of South Africa in a recent five year period.

(a) Fig. 6 shows how migration has changed the total population of each province.

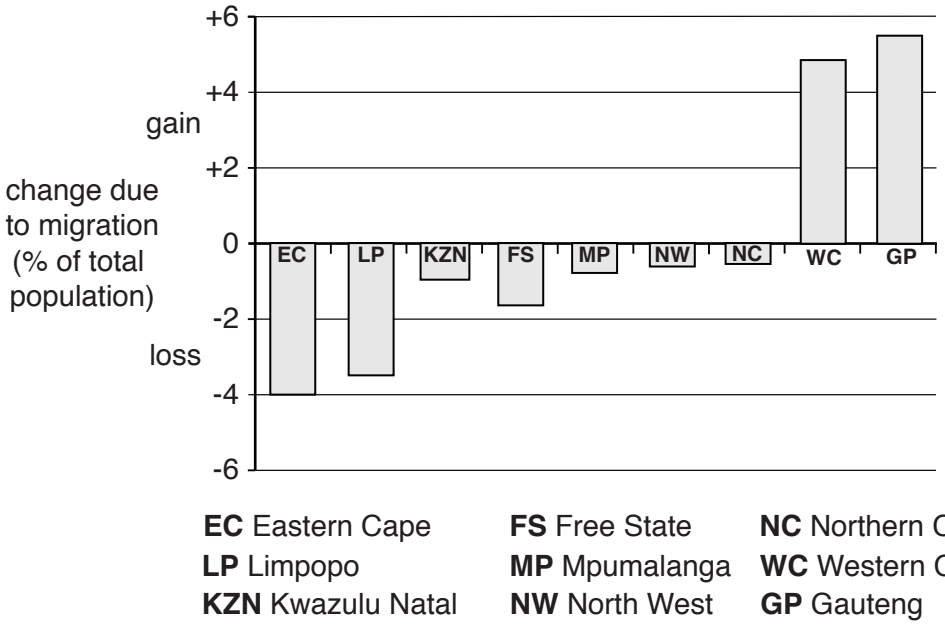


Fig. 6

(i) Using Fig. 6, name **one** province which has gained population as a result of internal migration.

..... [1]

(ii) Using Fig. 6, describe how internal population migration has changed the population of Eastern Cape province. Give a figure in your answer.

.....

.....[1]

© UCLES 2015

(b) Fig. 7 gives information about the GDP per capita (a measure of wealth production) and population migration between the provinces.

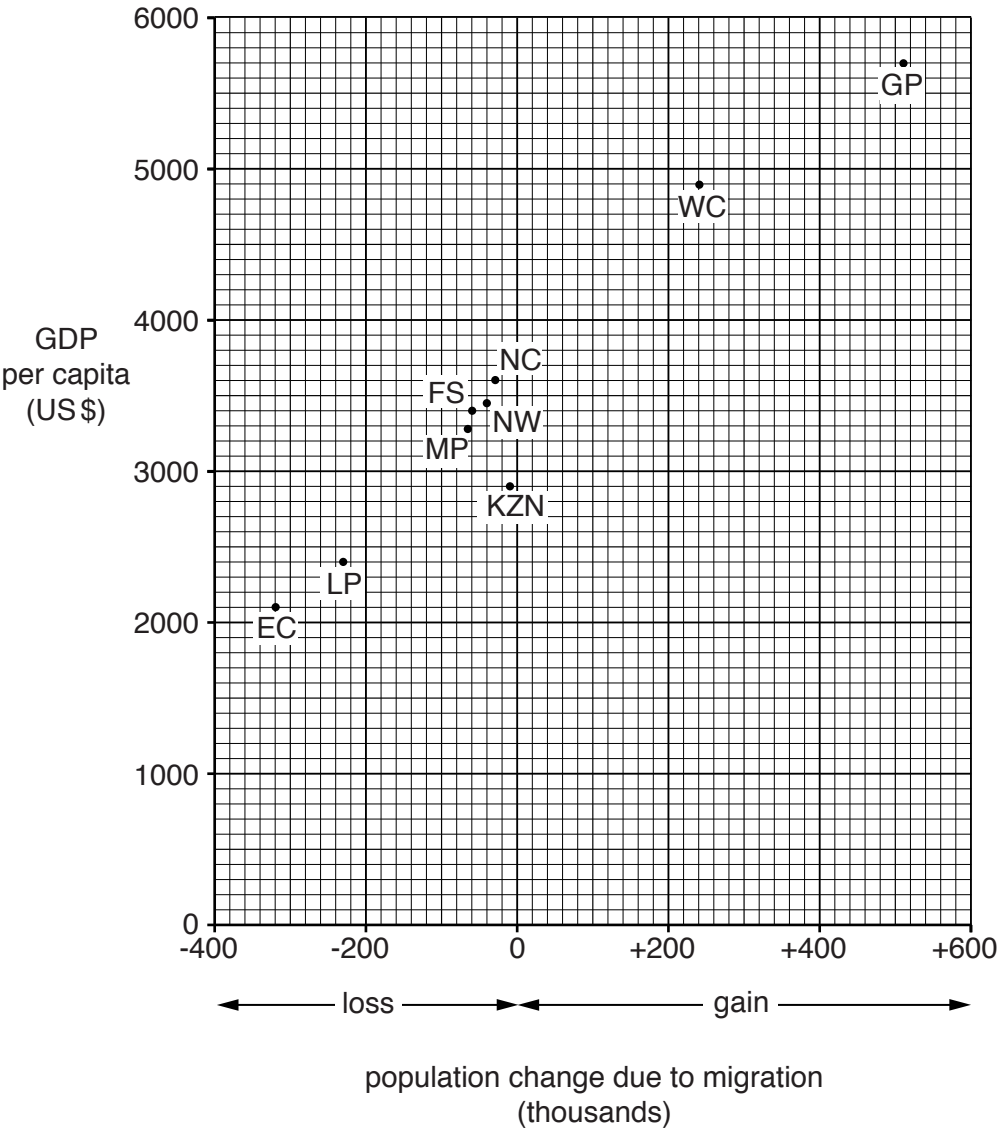


Fig. 7

(i) Describe the relationship shown on Fig. 7.

.....

.....

.....[1]

(ii) Suggest **one** reason for this relationship.

.....

.....[1]

© UCLES 2015

GradeMax

(c) Fig. 8 gives information about the percentage of the population living in urban areas and population migration between the provinces.

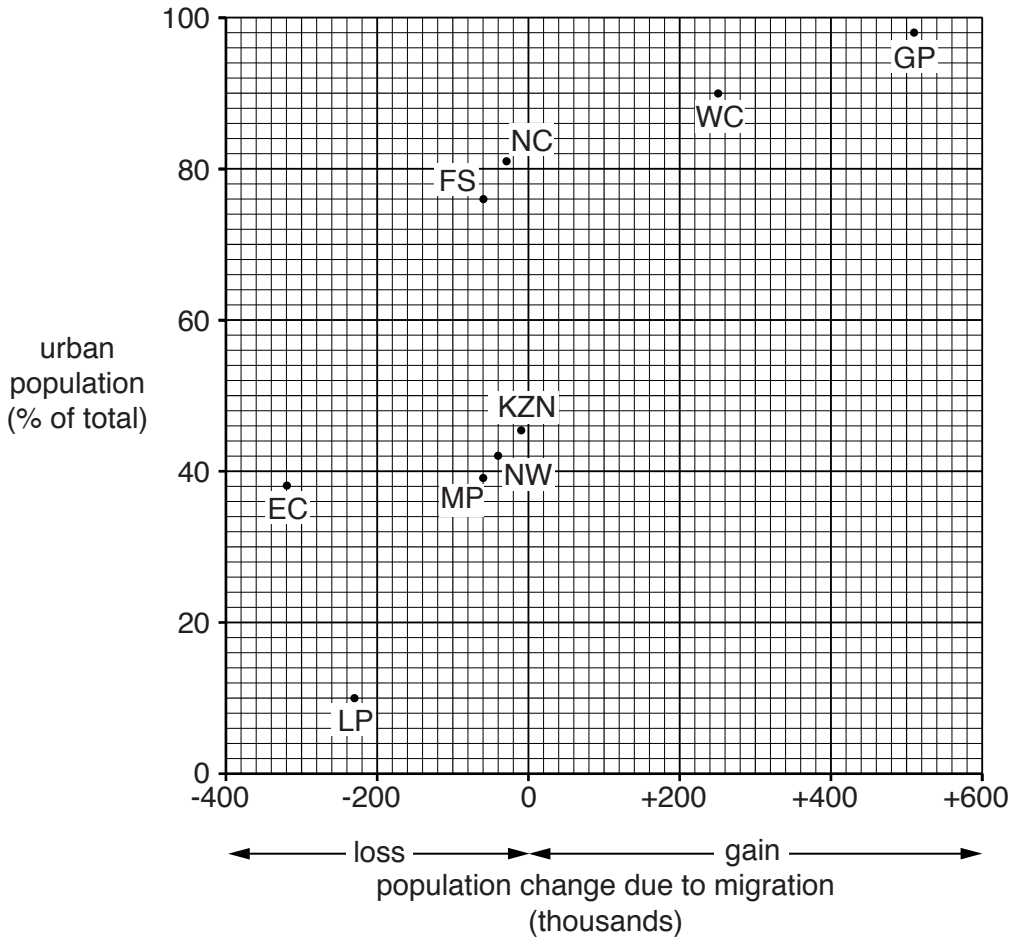


Fig. 8

'*Rural-urban migration is taking place in South Africa*.' Use evidence from Fig. 8 to support this statement.

.....

.....

.....

.....

.....[2]

(d) Give **two** difficulties of the **physical** environment which can cause population migration.

1 .....

2 .....[2]

[Total: 8 marks]

© UCLES 2015

GradeMax

5 Photograph C (Insert) shows two urban zones in Ulaanbaatar, the capital of Mongolia. One zone is in the foreground and the other zone is on the hill in the background.

For each zone, describe the buildings and suggest the type of urban land-use.

Buildings in the foreground of the photograph

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Buildings on the hill in the background of the photograph

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[Total: 8 marks]

6 Fig. 9 shows the percentages of different fuels and methods used to generate electricity in 2010 by three European countries, **A**, **B** and **C**.

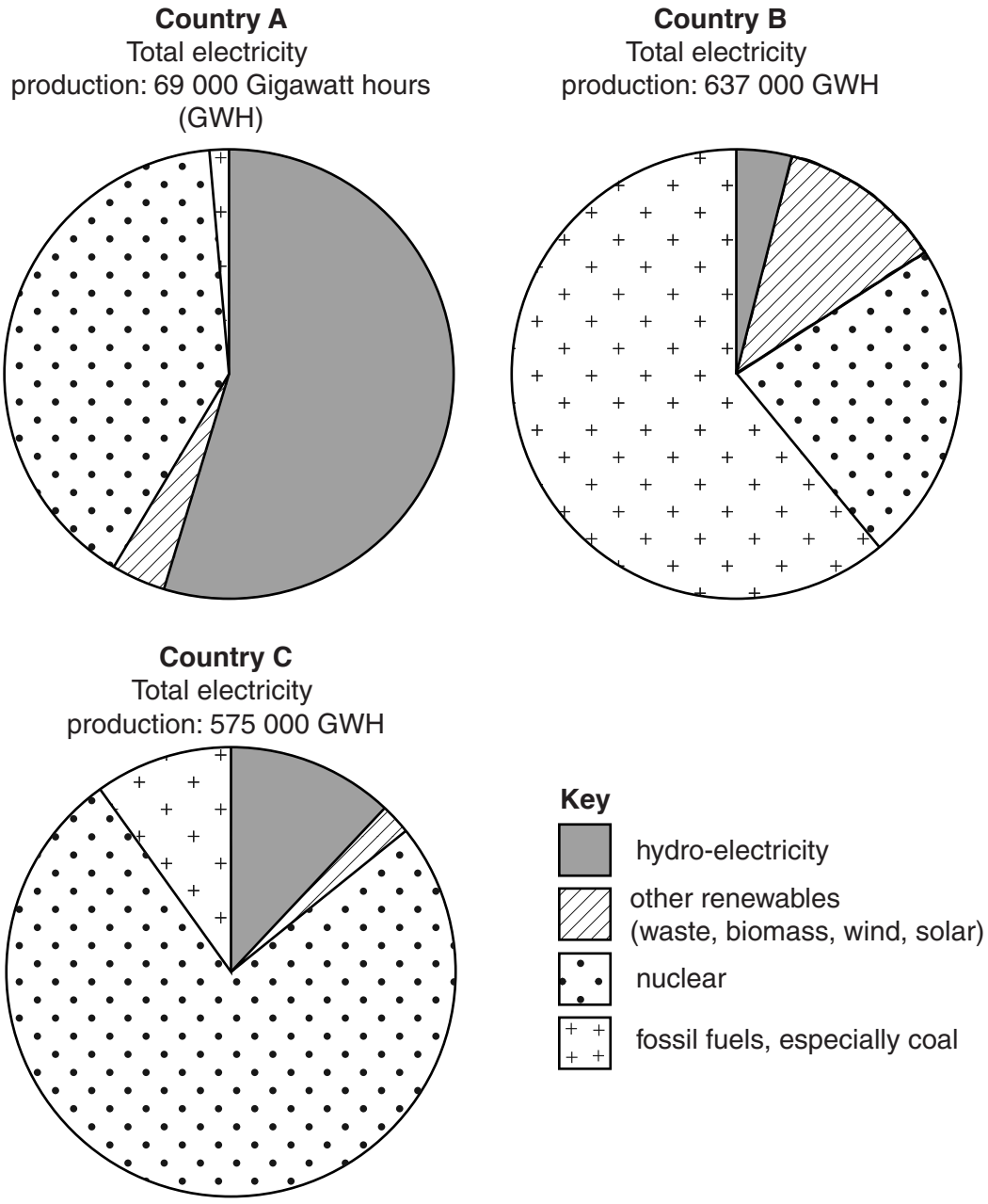


Fig. 9

(a) Which country used the biggest percentage of nuclear power to generate electricity in 2010? Circle **one** answer below.

Country **A** Country **B** Country **C** [1]

(b) The total electricity production of each country has been printed above the pie graphs on Fig. 9. How could the three pie graphs be changed in order to show this information without using the figures?

.....

.....[1]

© UCLES 2015

GradeMax

(c) Decisions have to be made by countries about which fuels and methods to use to generate electricity. Using information from Fig. 9, suggest reasons for the decisions made in each of the three countries about how they generate electricity.

(i) Country **A**

.....

.....

.....

.....

.....[2]

(ii) Country **B**

.....

.....

.....

.....

.....[2]

(iii) Country **C**

.....

.....

.....

.....

.....[2]

[Total: 8 marks]

© UCLES 2015

GradeMax

Additional Pages

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

© UCLES 2015

GradeMax

BLANK PAGE

© UCLES 2015

GradeMax

BLANK PAGE

© UCLES 2015

GradeMax

BLANK PAGE

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 International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

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