



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**GEOGRAPHY**

**0460/23**

Paper 2

**October/November 2013**

**1 hour 30 minutes**

Candidates answer on the Question Paper.

Additional Material:      Ruler  
                                    Protractor  
                                    Plain paper  
                                    Calculator

1:25 000 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 a soft pencil for any diagrams, graphs or rough working.  
Do not use staples, paper clips, highlighters, glue or correction fluid.  
**DO NOT WRITE ON ANY BARCODES.**

Answer **all** questions.

The Insert contains Photograph A for Question 2, Photograph B for Question 5 and Photograph C for Question 6.  
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.

For Examiner's Use	
<b>Q1</b>	
<b>Q2</b>	
<b>Q3</b>	
<b>Q4</b>	
<b>Q5</b>	
<b>Q6</b>	
<b>Total</b>	

This document consists of **14** printed pages, **2** blank pages and **1** Insert.



1 The map extract is for Blanche Mountain, Mauritius. The scale is 1:25 000.

(a) Fig. 1 shows the positions of some features in the north of the map extract. Study Fig. 1 and the map extract and answer the questions below.

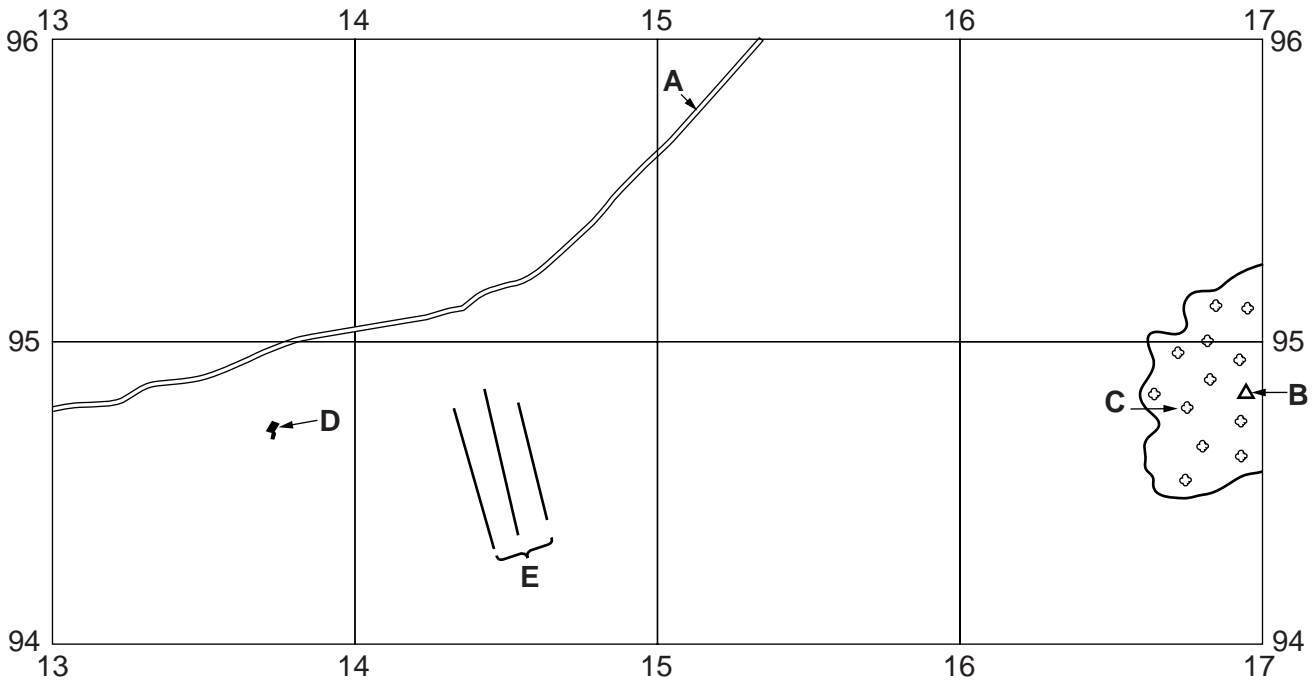


Fig. 1

Study the map and identify the following features shown on Fig. 1:

(i) the type of road at **A**;

..... [1]

(ii) feature **B**;

..... [1]

(iii) the type of natural vegetation at **C**;

..... [1]

(iv) the named building at **D**;

..... [1]

(v) features **E**.

..... [1]

(b) (i) In which compass direction would you walk from the road junction at grid reference 119913 to the school at 111921?

..... [1]

(ii) What is the bearing, from grid north, of the school at grid reference 111921 from the road junction at 119913?

..... degrees [1]

(iii) What is the distance in metres along the road from the western edge of the map at grid reference 110950 to the road junction at 139950? Circle the distance below (given in metres) which is the nearest to your answer.

2900                  2950                  3080                  3220 [1]

(iv) What is the main settlement pattern on the map? Circle the correct answer below.

dispersed                  linear                  nucleated [1]

(c) Look at grid squares 1294 and 1694. Place **one** tick only in each row in the table below to show whether or not the named features are found there. One example has been completed.

feature	grid square 1294 only	grid square 1694 only	both grid squares	neither of the grid squares
mosque	✓			
dispensary				
police station				
plantations growing two types of crop				
school				
marsh or swamp				

[5]

(d) Complete the route of the old railway, named in grid square 1391, on Fig. 2 below.

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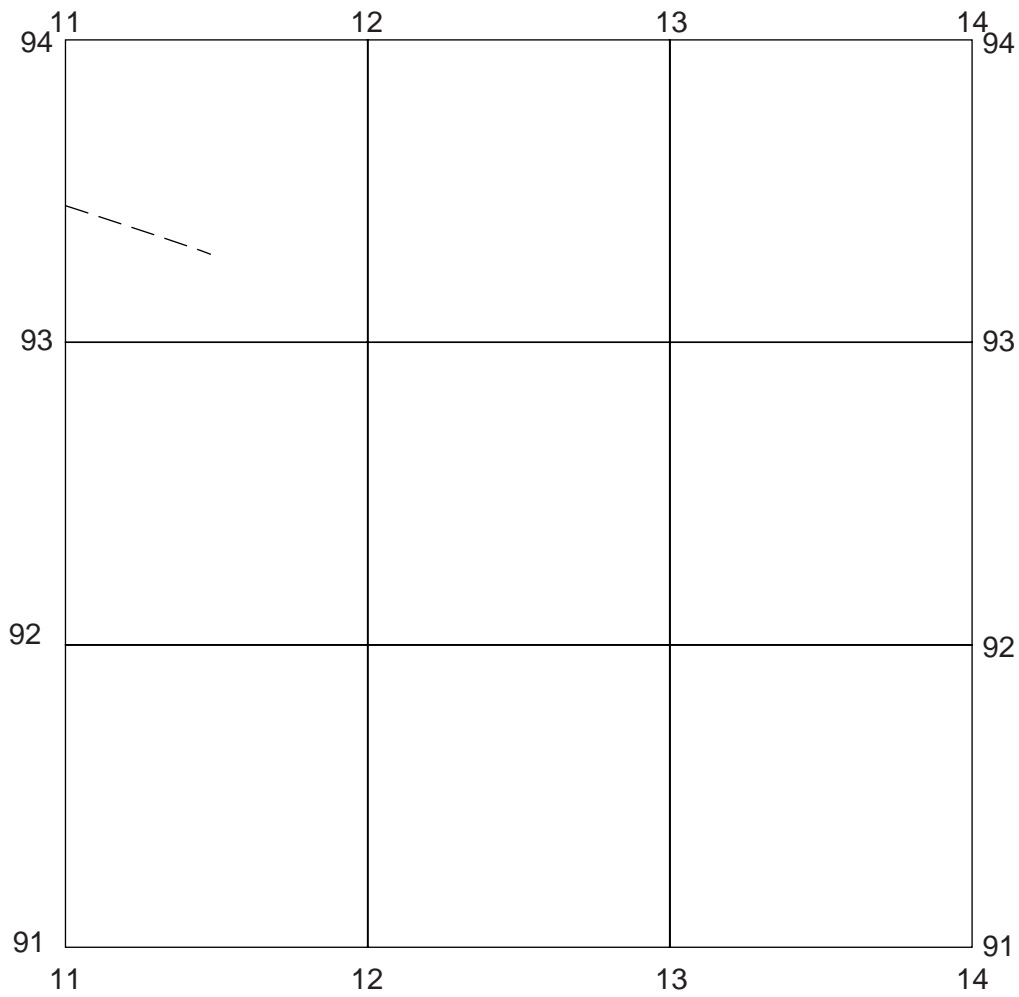
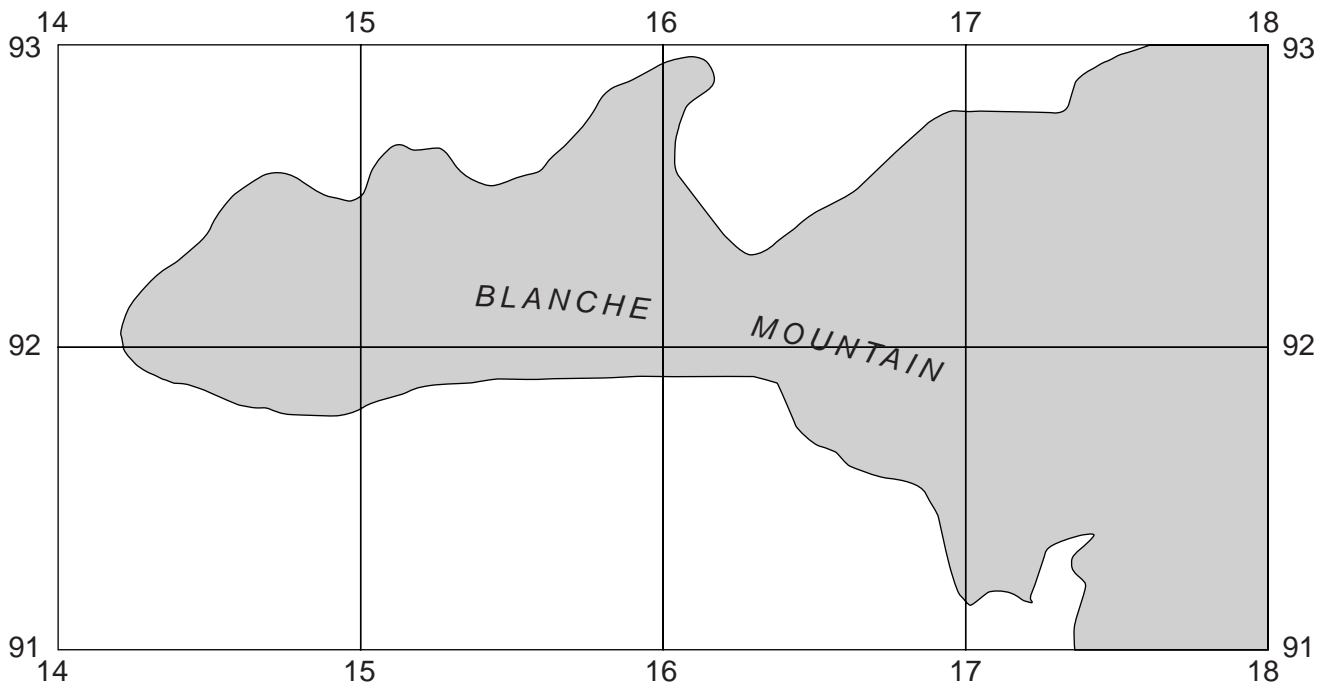


Fig. 2

[2]

(e) Fig. 3 below shows the area of Blanche Mountain in the south east of the map extract.

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**Fig. 3**

Use the map extract to describe the relief of the shaded area on Fig. 3.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[4]

[Total: 20 marks]

2 Photograph A (Insert), shows a river channel and its surrounding area.

(a) Find the features listed below on Photograph A. Show where the feature is present on the photograph by writing one of the letters **A, B, C, D, E** or **F** against the correct description.

a place where bank erosion has recently occurred .....

a place in the channel where the water will be flowing faster than at the opposite bank

.....

flood plain .....

steep valley side on the outside of a meander .....

slip off slope (point bar) ..... [5]

(b) (i) Circle the word that describes the size of the load at **X** as shown on Photograph A.

boulder                  clay                  pebble                  sand                  silt                  [1]

(ii) Suggest why load **X** has not been moved far by the river.

.....  
.....  
.....  
..... [2]

[Total: 8 marks]



- 3 Figs 4 and 5 give information about a migration from Somalia between 2008 and 2011. Use both of them to answer the following questions.

Somalia has been affected by unreliable rainfall and also by conflict, particularly in the southern part of the country where a militant group was in control. This prevented aid agencies from working there to help deal with the lack of food and water. The price of sorghum more than doubled between June 2010 and July 2011. Many people left the country, mainly on foot, and about 1.5 million are refugees within Somalia.

Fig. 4

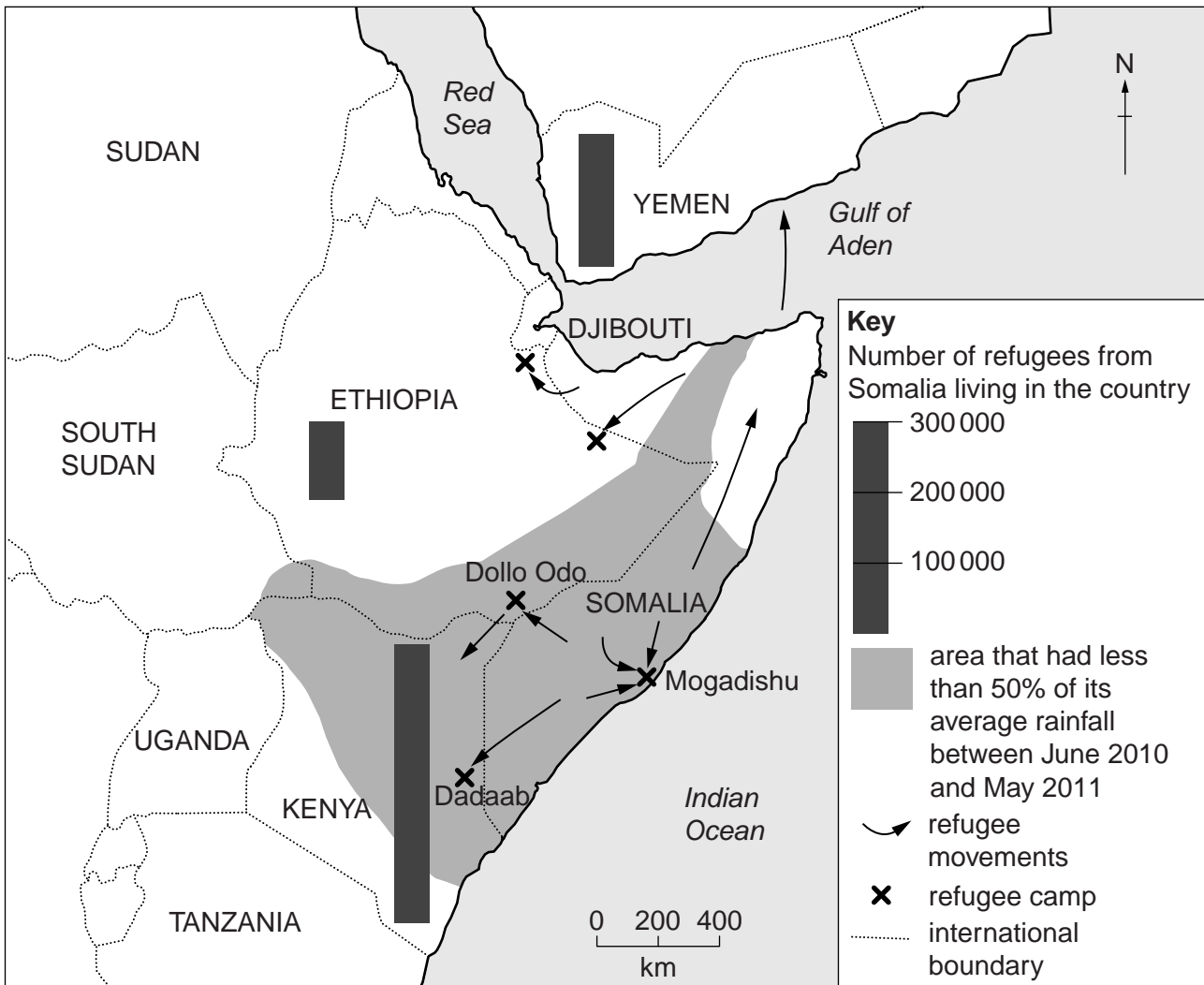


Fig. 5

- (a) (i) State **two** push factors which caused so many people to leave Somalia.

.....

.....

.....

.....

..... [2]



(ii) From Fig. 5, suggest reasons why this migration was very difficult for Kenya to cope with.

.....  
.....  
.....  
..... [2]

(iii) How many refugees fled to Yemen?

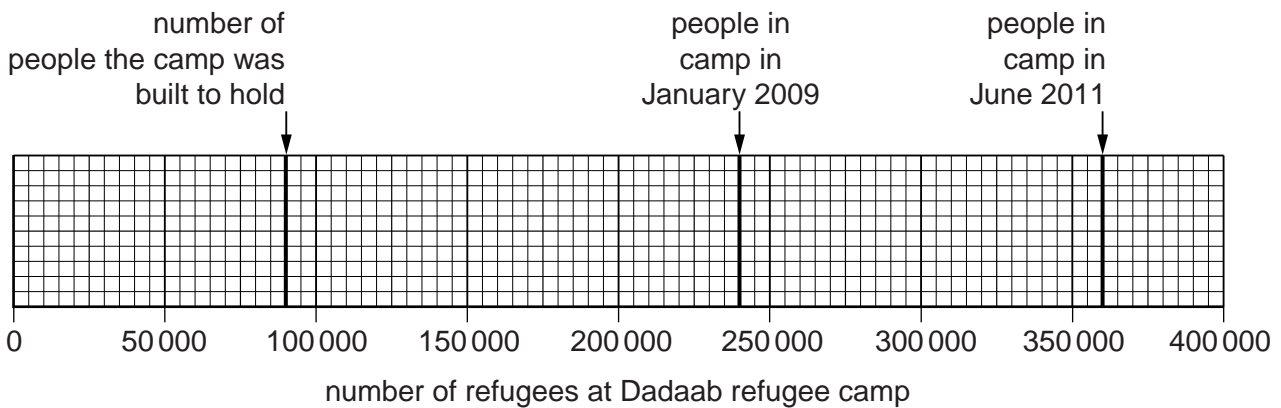
..... [1]

(iv) Suggest **one** reason why most refugees only travelled as far as the nearest countries.

.....  
..... [1]

(b) (i) Fig. 6 shows the number of refugees in the camp at Dadaab in January 2009 and June 2011, together with the number it was built to hold.

Complete the bar graph to show that the camp held 380 000 refugees by July 2011.



[1]

Fig. 6

(ii) Suggest **one** problem which is likely to result from a camp with far more people in it than it was built to hold.

.....  
..... [1]

[Total: 8 marks]

4 (a) Fig. 7 shows the climate of Padang in Indonesia. Table 1 gives the temperature figures for Padang for three months.

(i) Use the information in Table 1 to complete the temperature graph on Fig. 7.

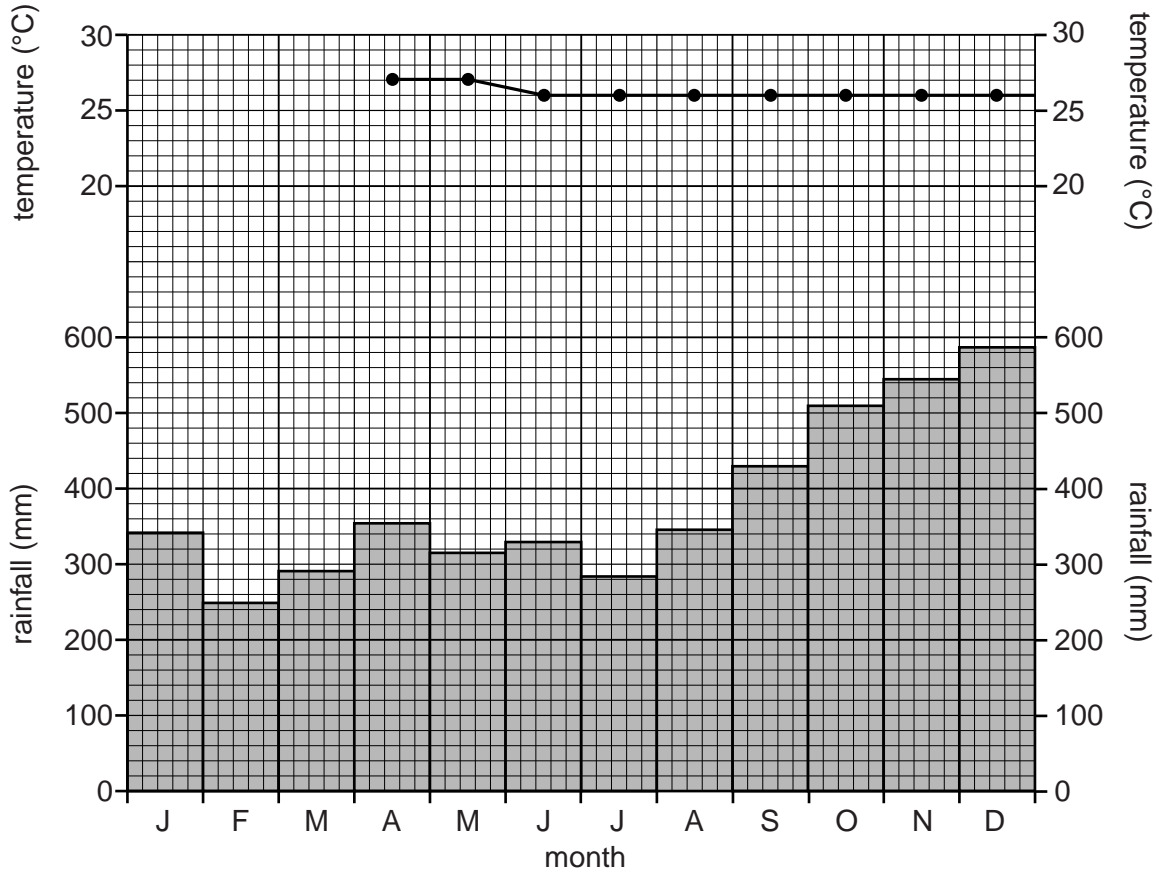


Fig. 7

Table 1

	J	F	M
temperature (°C)	26	27	26

[2]

(ii) Use the information in Fig. 7 and Table 1 to circle the figures below which are correct for the climate at Padang.

annual temperature range (°C)	0	1	2	3
mean annual temperature (°C)	24	25	26	27
approximate annual rainfall total (mm)	4000	4500	5000	5500

[3]

(iii) Describe the general distribution of the rainfall at Padang.

.....  
.....  
.....  
..... [2]

(b) Padang's climate is very humid. Use Fig. 7 to explain this high humidity.

.....  
.....  
..... [1]

[Total: 8 marks]

- 5 (a) Fig. 8 is a sketch map of an industrial complex at Brunsbüttel in north Germany which is important for petroleum and chemical industries. Photograph B (Insert), shows the petrochemical works labelled X on Fig. 8 and part of the oil port.

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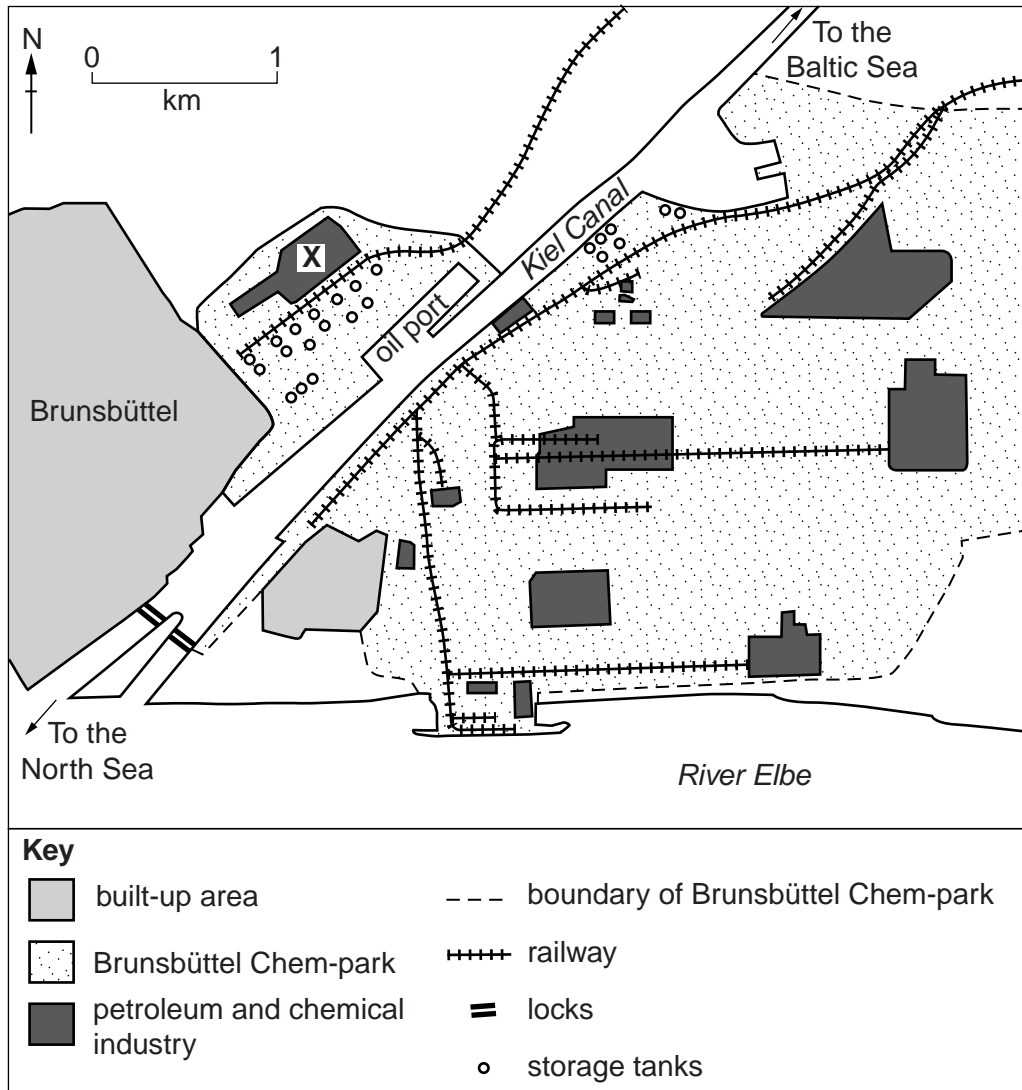


Fig. 8

- (i) Use evidence in Photograph B **only** to give reasons why this is a good site for industry. Write your answers in the table below.

factor influencing industrial location	evidence from Photograph B of the suitability of the site
land	.....
possible power source	.....
transport of raw material	.....

[3]

(ii) Suggest why the chimneys in Photograph B are very tall.

.....  
..... [1]

(b) Use the map (Fig. 8) to describe other advantages of the area for the location of this industrial complex.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
..... [3]

(c) Table 2 shows some inputs and outputs of four petrochemical factories in the area.

**Table 2**

factory	selected inputs	selected outputs
A	benzene, petroleum	toluene, xylene
B	toluene, xylene	phosphene, nitric acid, caustic soda, sulfuric acid, hydrogen
C	phosphene, nitric acid, caustic soda, sulfuric acid	textile dyes
D	hydrogen, caustic soda, sulfuric acid	hydrochloric acid

Using evidence from Table 2 **only**, explain why these factories locate close to each other.

.....  
..... [1]

[Total: 8 marks]

6 (a) Fig. 9 gives some information about Wyoming, a state in the USA.

The western part of the state is part of the Rocky Mountains while the eastern part is a plateau covered by natural grassland in the rain shadow of the Rockies. The main economic activity is cattle ranching, which provides more than 77% of the state's wealth. The average herd size is 232 and at least 50 of the ranches (farms) have more than 2500 cattle. The average farm size is over 100 000 hectares.

Fig. 9

(i) What evidence in Fig. 9 suggests that cattle ranching in Wyoming is an example of large-scale commercial farming?

large scale .....

.....

commercial .....

..... [2]

Fig. 10 shows the percentage of farmland in Wyoming under permanent pasture.

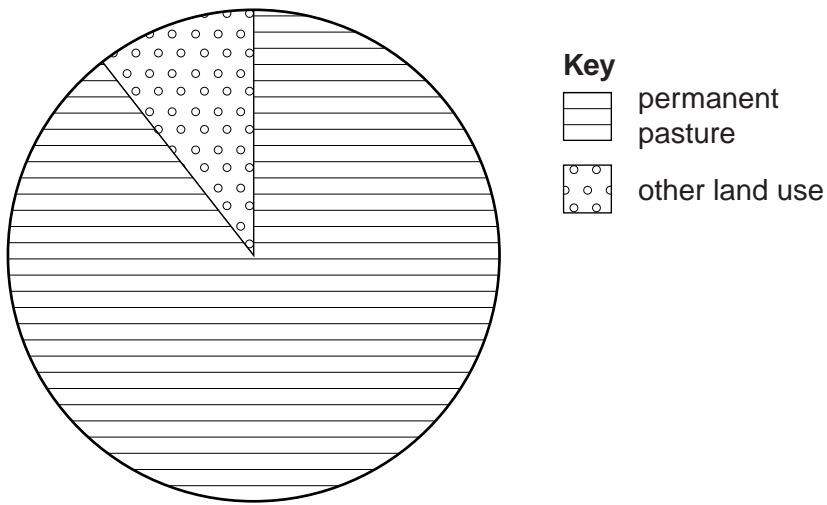


Fig. 10

(ii) What percentage of farmland in Wyoming is under permanent pasture?

..... %

[1]

(b) Photograph C (Insert), shows farm workers moving cattle on a ranch.

(i) Describe the relief of the area shown in Photograph C.

.....  
.....  
.....  
..... [2]

(ii) Suggest **one** characteristic of the area shown in Photograph C that causes the cattle to be moved frequently from one part of the ranch to another.

.....  
..... [1]

(iii) Suggest why the area is not used for arable farming.

.....  
.....  
.....  
..... [2]

[Total: 8 marks]

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*Copyright Acknowledgements:*

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Question 3 Figs 4, 5 and 6	© <a href="http://www.unhcr.org/4e0475f69.html">http://www.unhcr.org/4e0475f69.html</a> © <a href="http://www.bbc.co.uk/news/world-africa-14144893">http://www.bbc.co.uk/news/world-africa-14144893</a>
Question 5 Photograph B	Muriel Fretwell © UCLES.
Question 6 Figs 9 and 10	© <a href="http://www.agcensus.usda.gov/Publications/2007/Full_Report/Volume_1,_Chapter_1_State_Level/Wyoming/">http://www.agcensus.usda.gov/Publications/2007/Full_Report/Volume_1,_Chapter_1_State_Level/Wyoming/</a>
Question 6 Photograph C	Muriel Fretwell © UCLES.

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