UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

CANDIDATE NAME	

CENTRE NUMBER					

CANDIDATE NUMBER				

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	
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

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

UNIVERSITY *of* **CAMBRIDGE**
International Examinations

[Turn over

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.
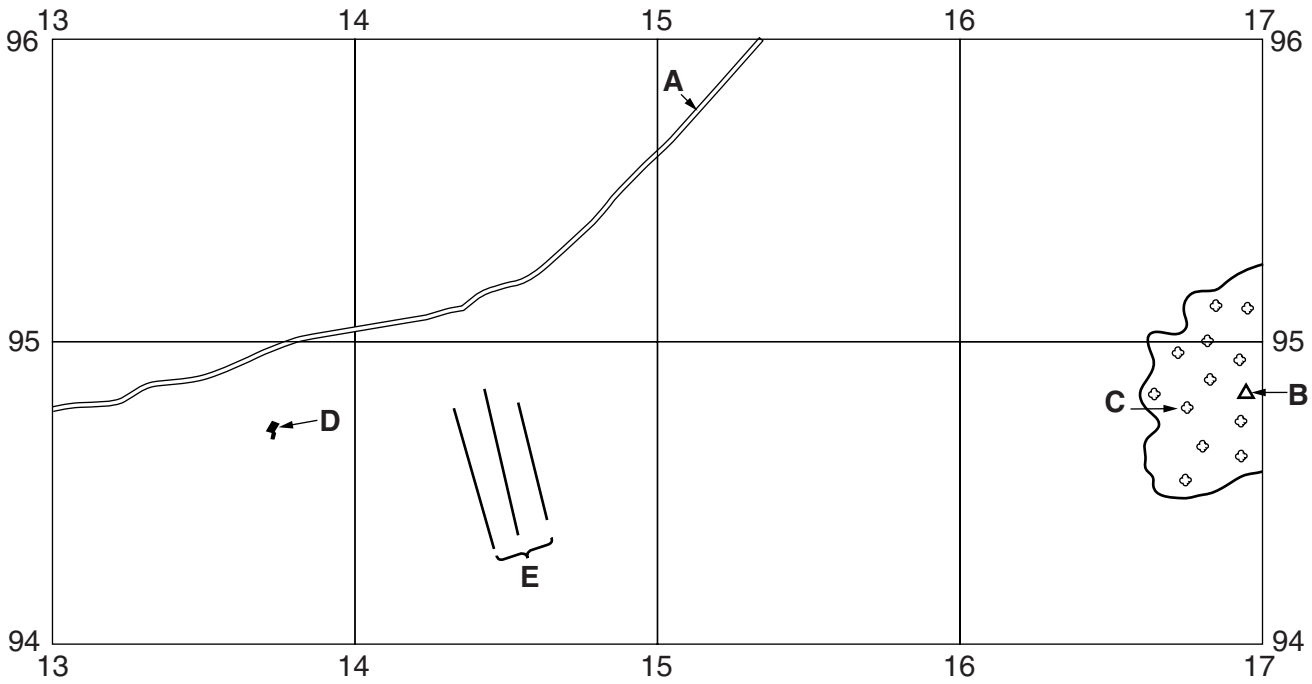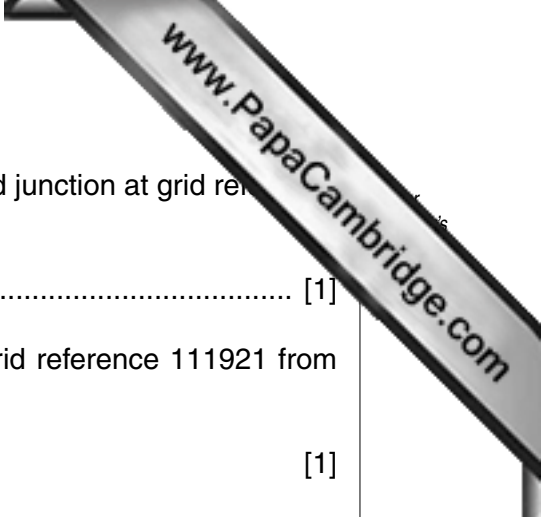   Study Fig. 1 and the map extract and answer the questions below.

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]

[Turn over

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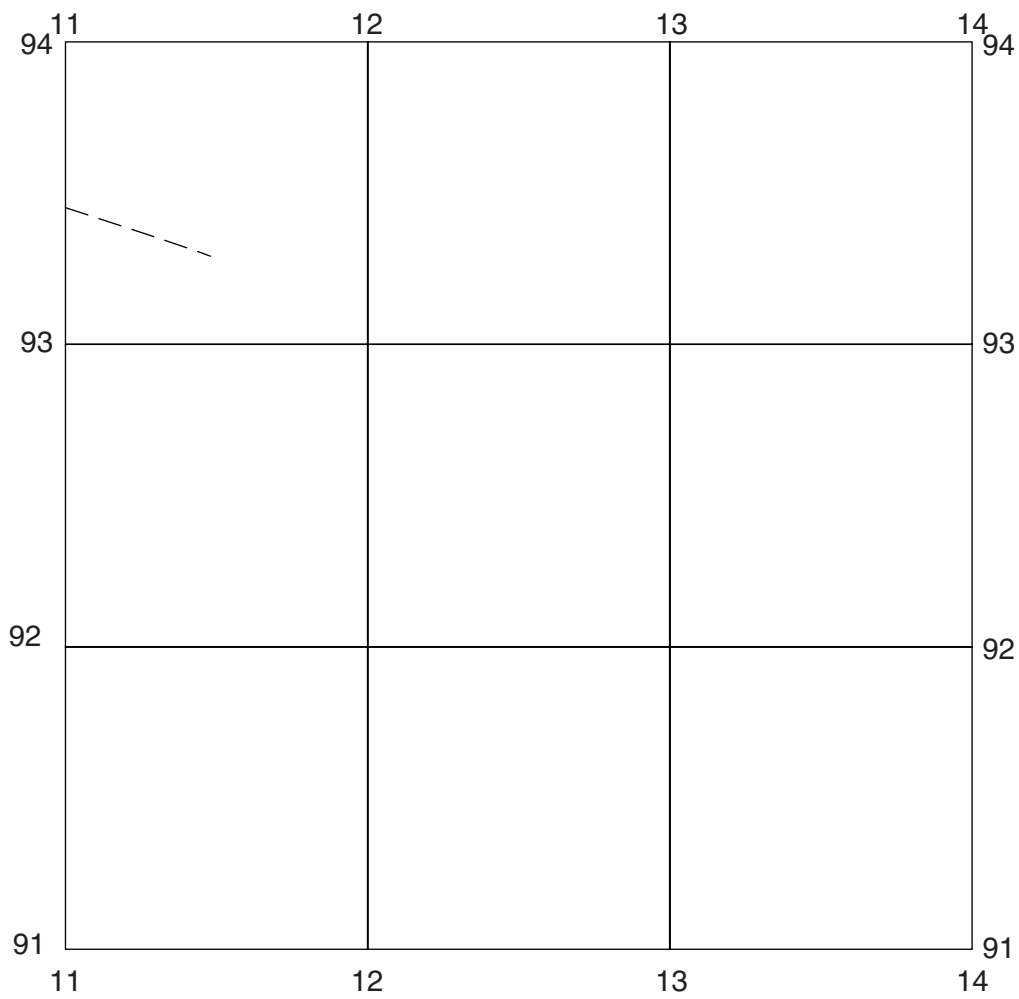
Fig. 2

[2]

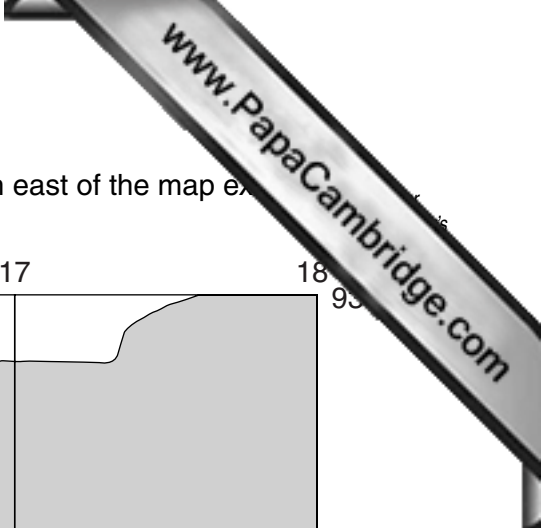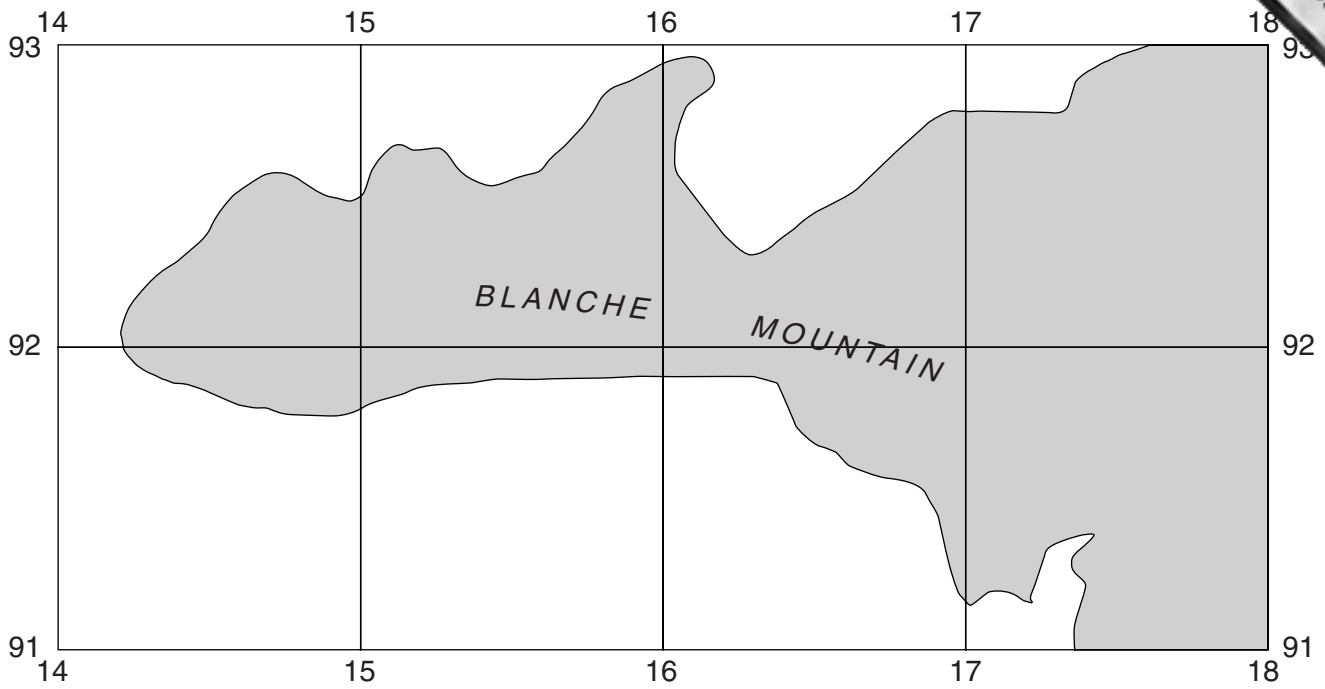**(e)** Fig. 3 below shows the area of Blanche Mountain in the south east of the map e~~xtract~~.

Fig. 3

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

....

....

....

....

....

....

....

.... [4]
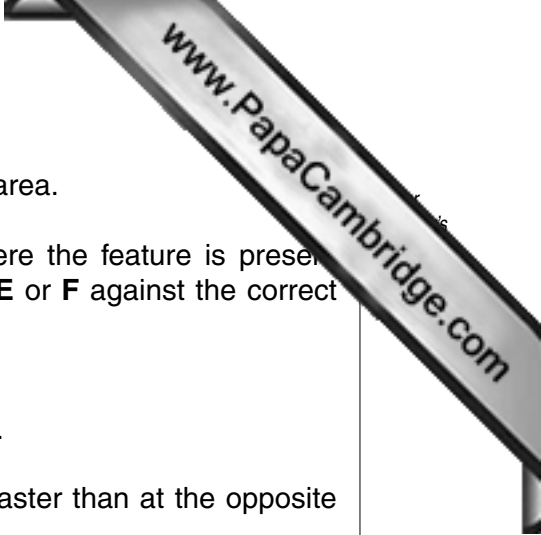
[Total: 20 marks]

[Turn over

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]

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3 Figs 4 and 5 give information about a migration from Somalia between 2008 and 201
   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
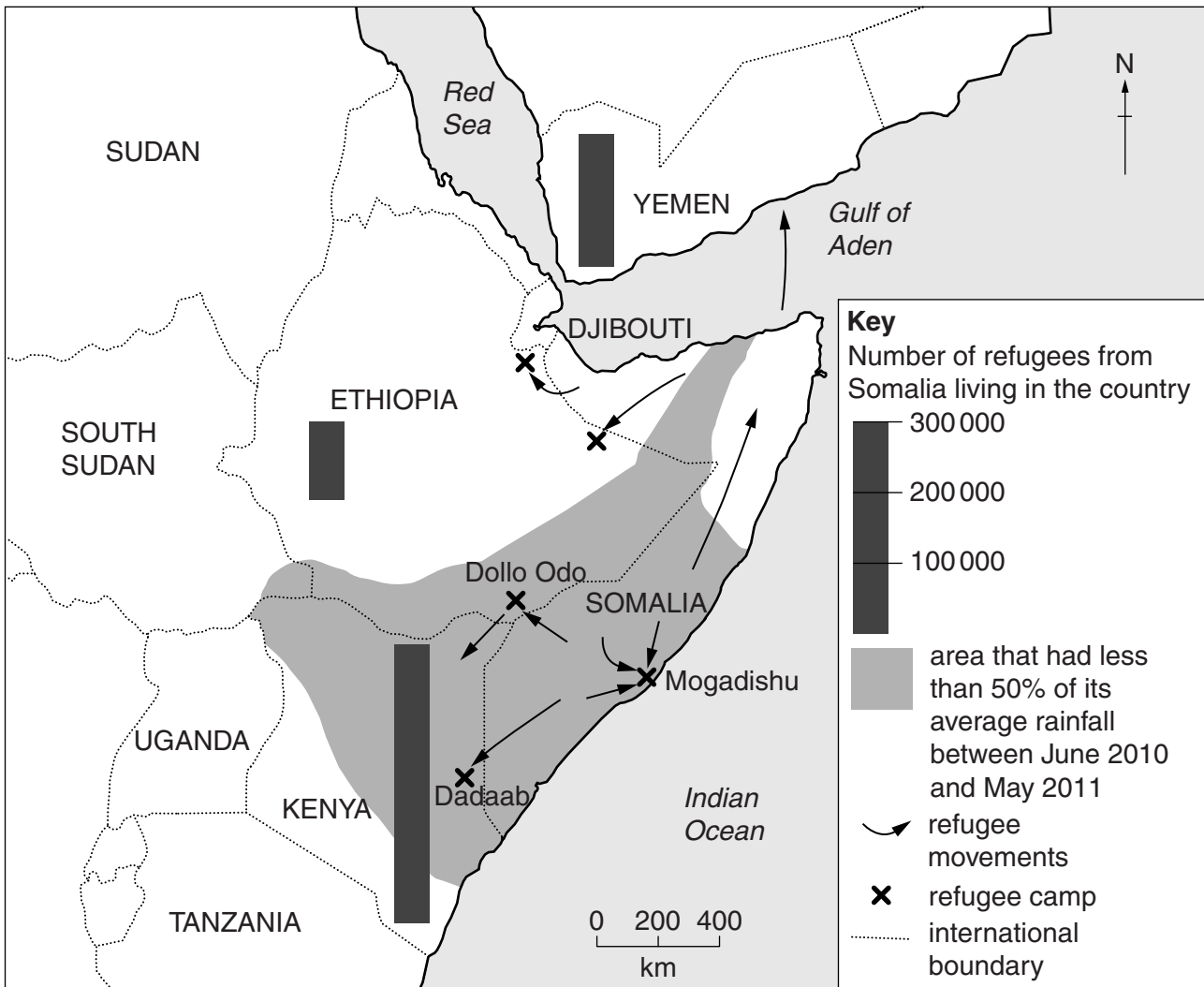
Fig. 5

(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 deal with.

....

....

....

.... [2]

(iii) How many refugees fled to Yemen?

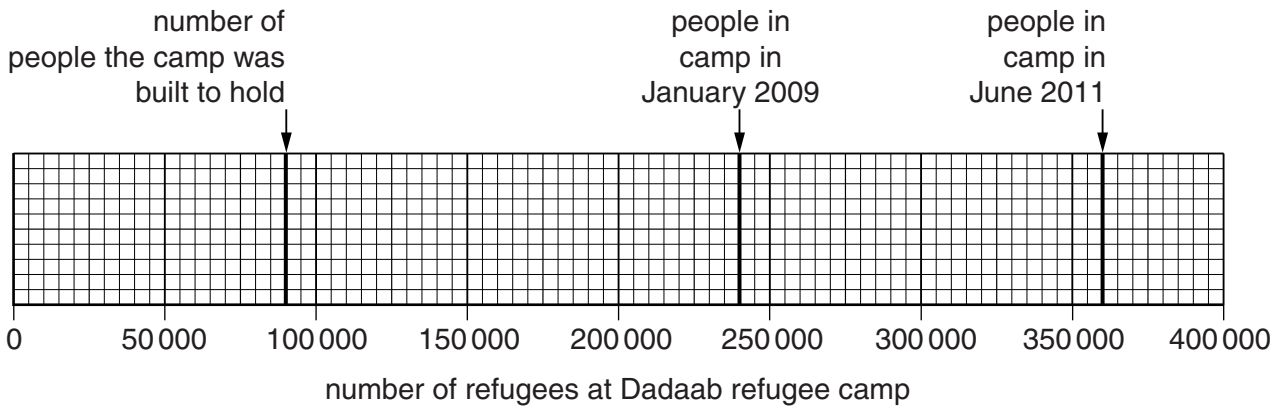.. [1]

(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.

| number of people the camp was built to hold | | people in camp in January 2009 | | people in camp in June 2011 |

0   50 000   100 000   150 000   200 000   250 000   300 000   350 000   400 000

number of refugees at Dadaab refugee camp

[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]

[Turn over

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

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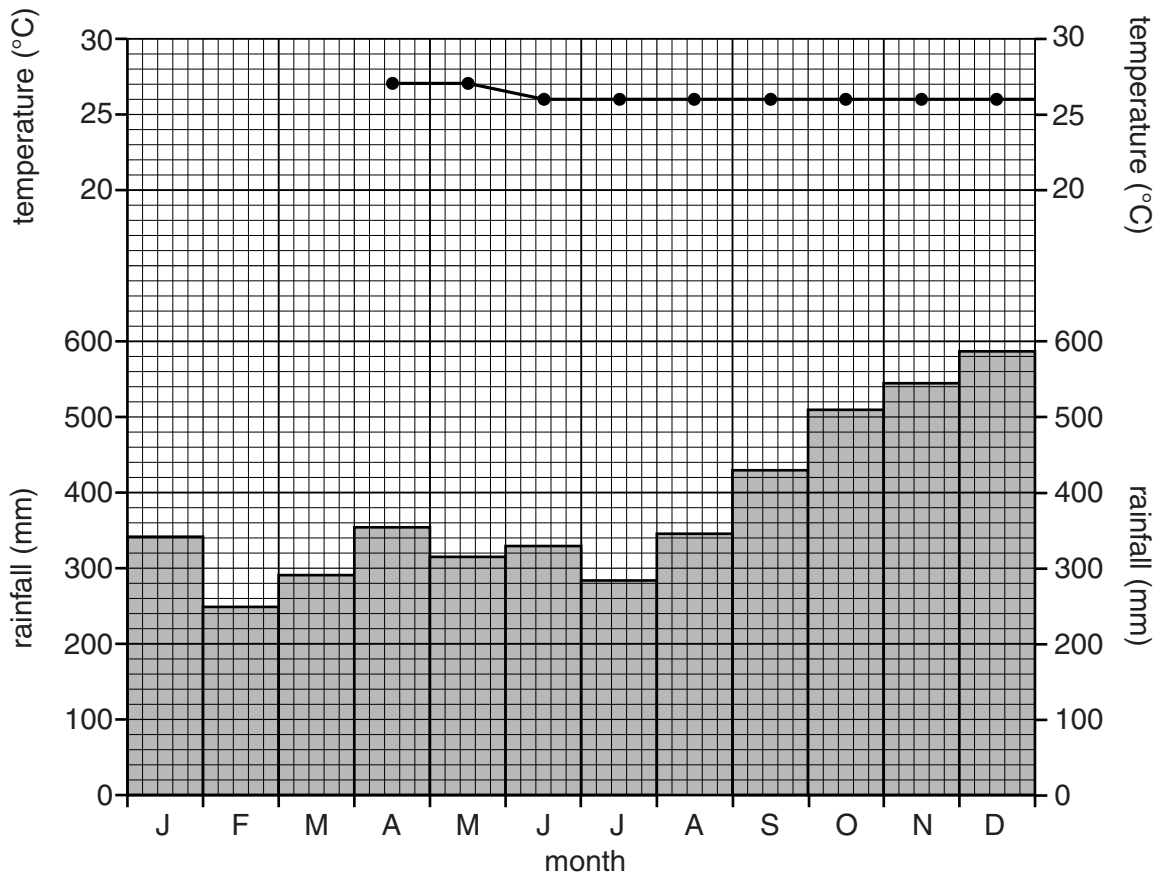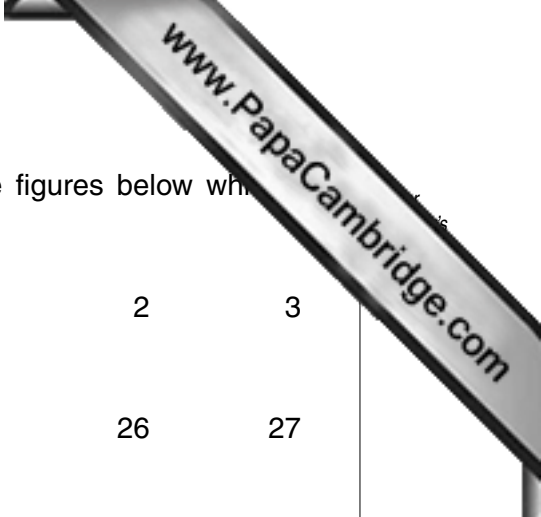

Fig. 7

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 wh[...] 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]

[Turn over

5 (a) Fig. 8 is a sketch map of an industrial complex at Brunsbüttel in north Germany. It 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.

Fig. 8

Key

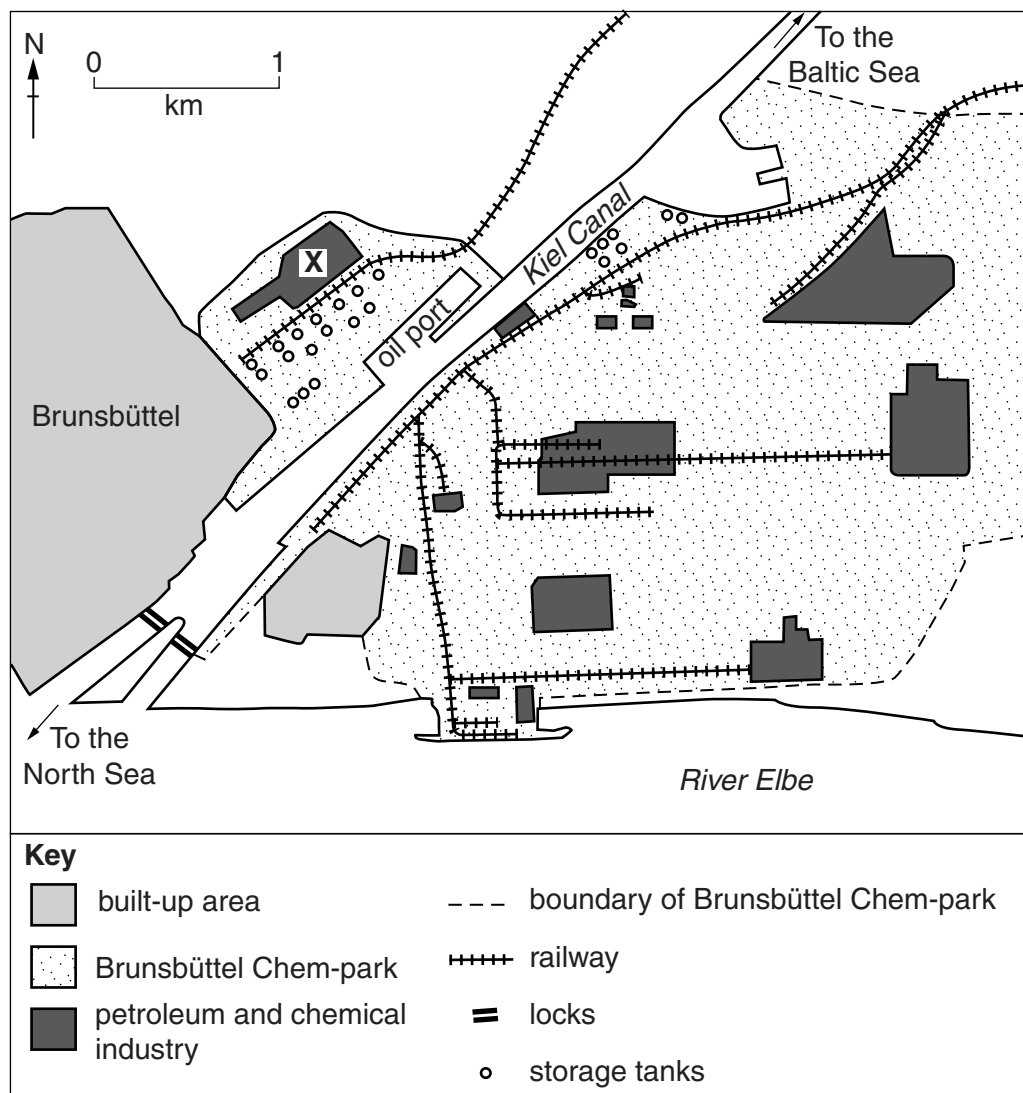| | built-up area | - - - | boundary of Brunsbüttel Chem-park |
	Brunsbüttel Chem-park	+++++	railway
	petroleum and chemical industry	=	locks
		o	storage tanks

(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]

[Turn over

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.

Key

permanent pasture

other land use
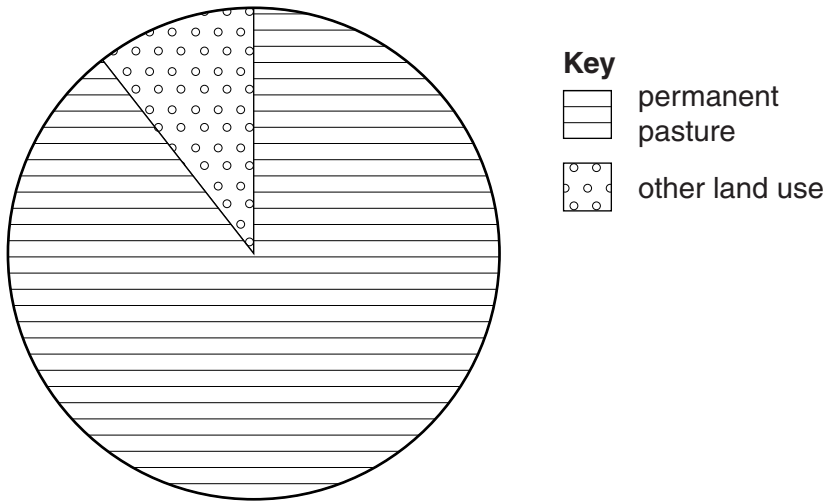
Fig. 10

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

.... %   [1]
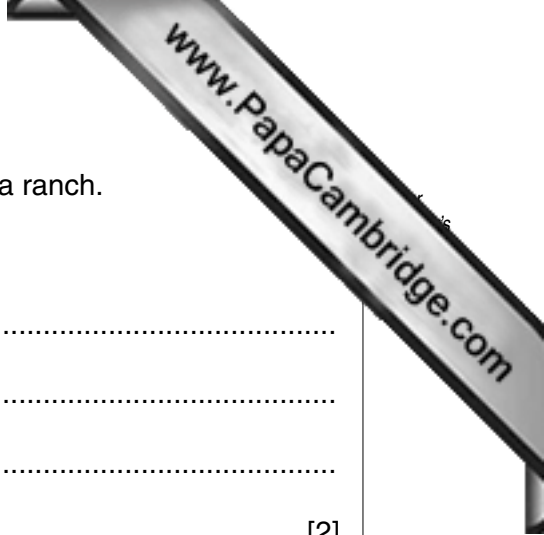
(b) Photograph C (Insert), shows farm workers moving cattle on a ranch.

(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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