Cambridge Assessment International Education

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CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

0840170606

GEOGRAPHY **0460/21**

Paper 2 Geographical Skills **October/November 2020**

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
1:50 000 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.

This document has **20** pages. Blank pages are indicated.

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1 Study the map extract for Misterbianco, Italy. The scale is 1:50 000.

(a) Fig. 1.1 shows some of the features around the main settlement at Misterbianco in the north east of the map extract. Study Fig. 1.1 and the map extract, and answer the questions below.

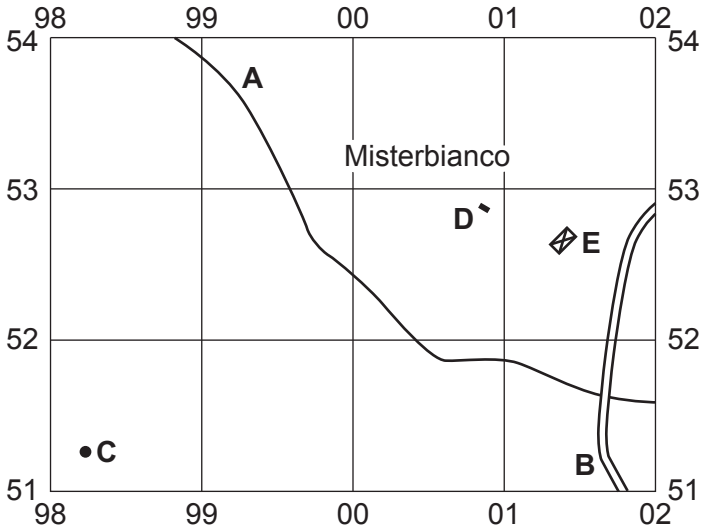


Fig. 1.1

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

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

..... [1]

(ii) the type of road at **B**

..... [1]

(iii) the height above sea level of the spot height at **C**

..... metres [1]

(iv) feature **D**

..... [1]

(v) feature **E**.

..... [1]

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(b) Fig. 1.2 shows two areas, **A** and **B**, in the south west of the map extract. Study the two areas and answer the questions below.

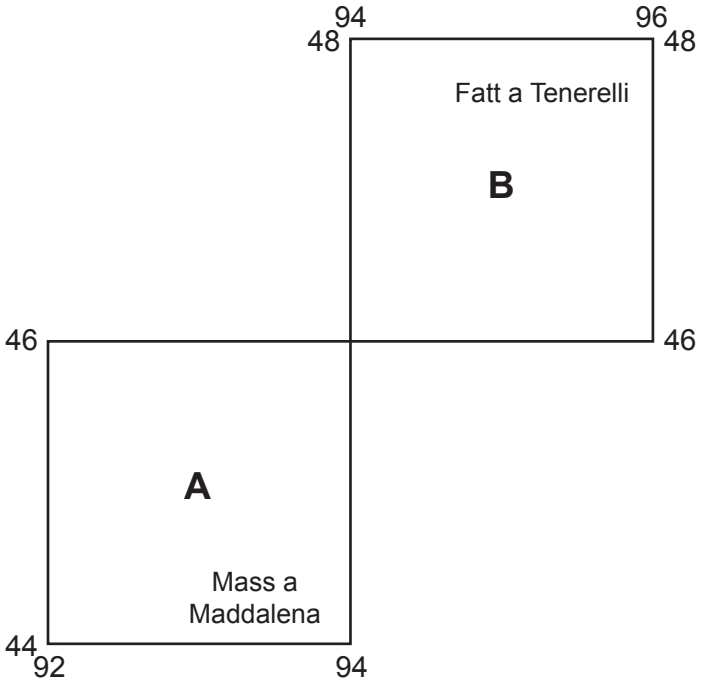


Fig. 1.2

The table below compares the features of the two areas. Complete the table by putting ticks in the correct **six** boxes. Use only **one** tick (✓) for each row.

Feature	Area **A**	Area **B**	Both these areas	Neither of these areas
river flowing from south to north				
meandering river				
river flowing from north to south				
either flat or gently sloping				
steep slopes				
plateau				

[6]

(c) Fig. 1.3 is a cross section through the settlement of Motta S. Anastasia, along northing 52, from 940520 to 000520.

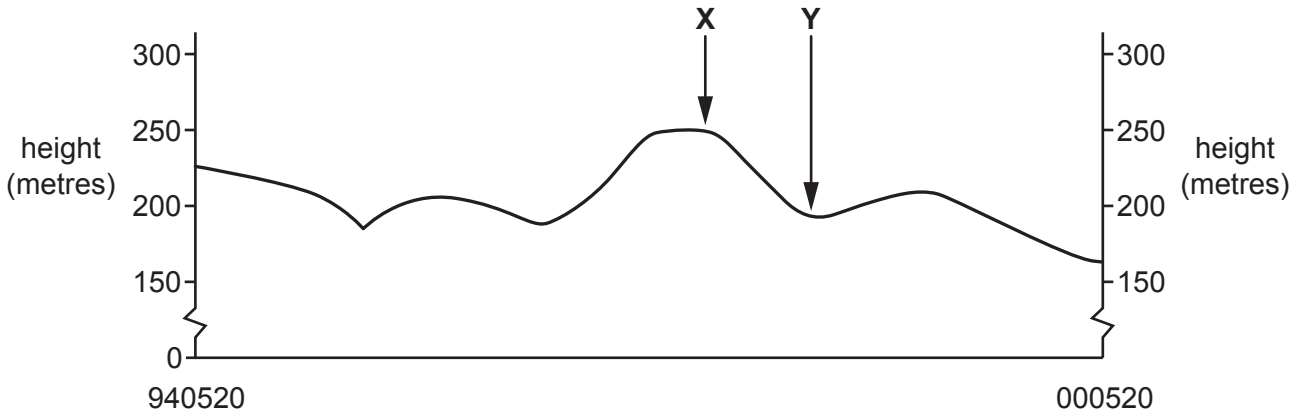


Fig. 1.3

(i) Identify the feature **X**.

..... [1]

(ii) Name the river at **Y**.

..... [1]

(iii) In Fig. 1.3, **use a labelled arrow** to show the position of the settlement of Motta S. Anastasia. [1]

(d) A railway in the southern part of the map extract is shown by a thin black line. Find where the railway crosses a wide river near Staz.di Motta S. Anastasia.

(i) What is the distance along the railway, from where it crosses the wide river, to the eastern edge of the map? Give your answer in metres.

..... metres [1]

(ii) What is the compass direction **from** where the railway crosses the wide river, **to** where the railway meets the eastern edge of the map?

..... [1]

(iii) Measure the bearing **from** where the railway crosses the wide river, **to** where the railway meets the eastern edge of the map.

..... degrees [1]

(iv) Give the six-figure grid reference of the point where the railway crosses the wide river.

..... [1]

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(e) Fig. 1.4 shows two areas, area **P** in the north west of the map extract and area **Q** in the north east of the map extract just south of Misterbianco.

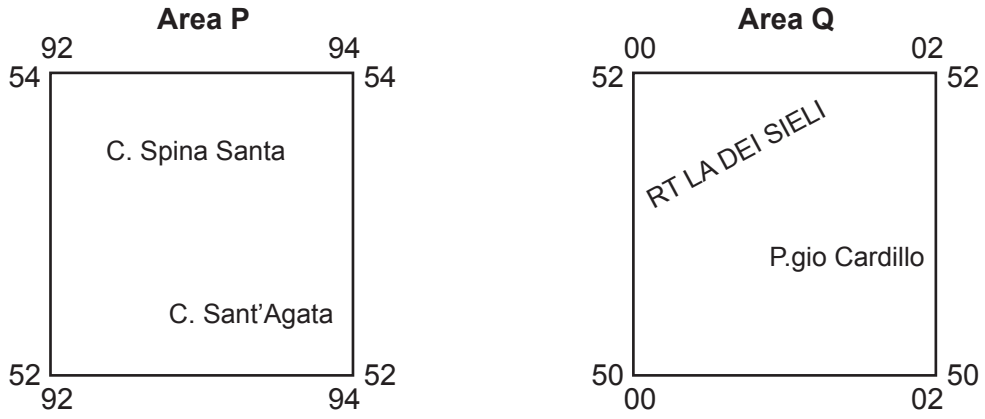


Fig. 1.4

Identify:

(i) the **settlement** pattern in area **P**

..... [1]

(ii) the **stream** pattern in area **Q**.

..... [1]

[Total: 20]

2 Fig. 2.1 shows the settlement hierarchy in South Holland, an area in the United Kingdom.

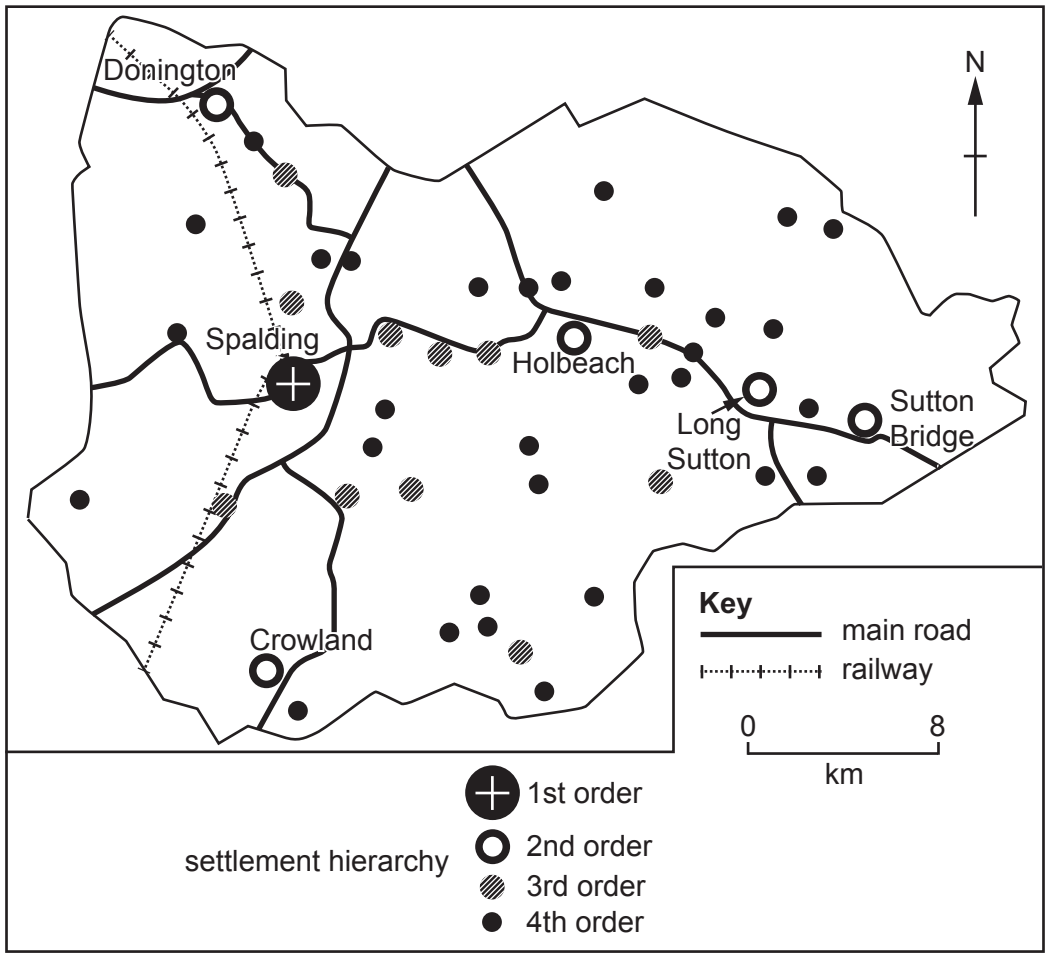


Fig. 2.1

(a) (i) Using evidence from Fig. 2.1, suggest why Spalding has become the main town in South Holland.

.....

.....

.....

..... [2]

(ii) Using Fig. 2.1, compare the main road links of the second and third order settlements.

.....

.....

.....

..... [2]

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(b) In Fig. 2.1, **draw the possible sphere of influence** of Long Sutton, a second order settlement. [1]

(c) The distribution of settlements in Fig. 2.1 is not even. Suggest **one** possible reason for this.

.....

..... [1]

(d) Fig. 2.2 shows the relationship between settlement order and number of settlements in South Holland.

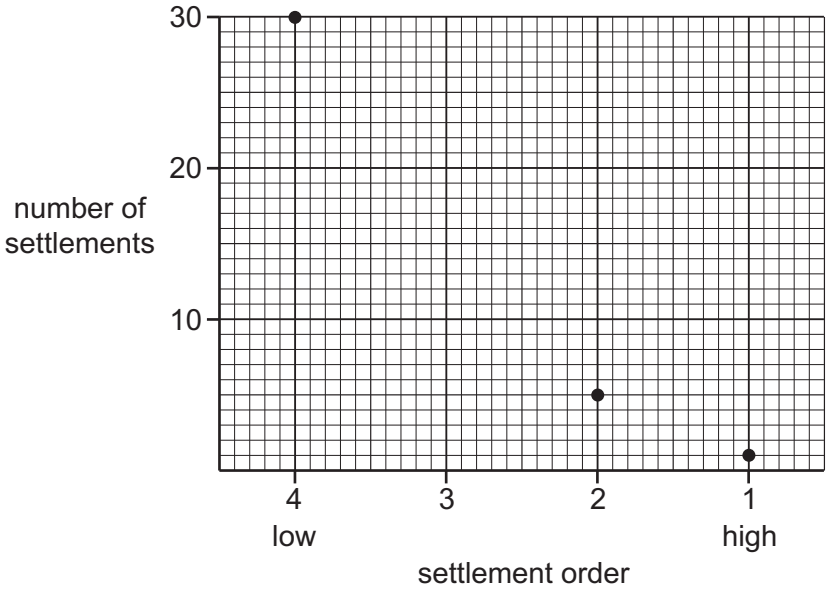


Fig. 2.2

(i) Using information from Fig. 2.1, **plot the number of third order settlements** in Fig. 2.2. [1]

(ii) Describe the relationship between settlement order and number of settlements in South Holland shown in Fig. 2.2.

.....

..... [1]

[Total: 8]

3 The strongest earthquake in history was at Bio-Bio in Chile, in 1960, with a magnitude of 9.5. The location of Bio-Bio is shown in Fig. 3.1.

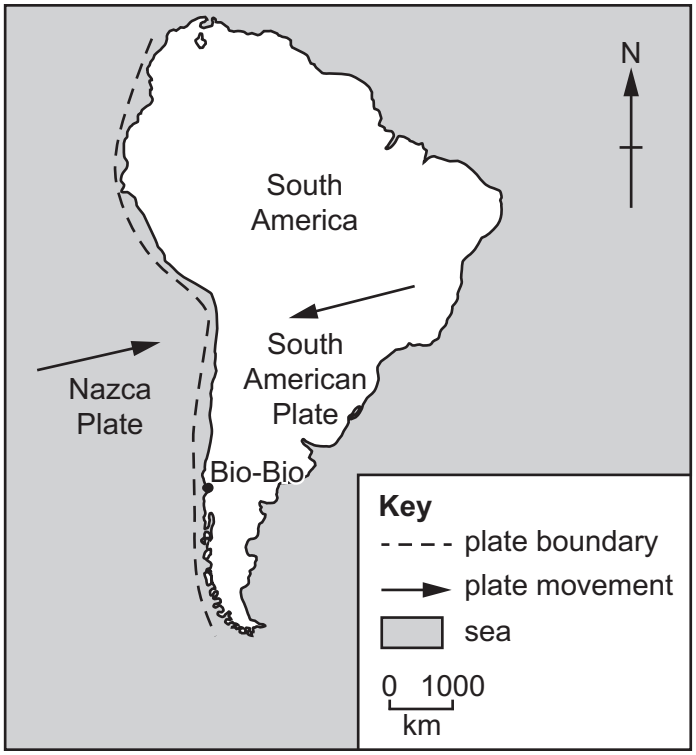


Fig. 3.1

(a) What type of plate margin is close to Bio-Bio? Tick **one** box below.

	Tick (✓)
Constructive (divergent)	
Destructive (convergent)	
Conservative	

[1]

(b) Using evidence from Fig. 3.1, explain the cause of the Bio-Bio earthquake.

.....

.....

.....

.....

.....

.....

.....

..... [4]

(c) Explain what can be done to reduce the impacts of earthquakes.

.....

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.....

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.....

.....

..... [3]

[Total: 8]

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4 Figs. 4.1 and 4.2 (Insert) show part of a desert in southern Africa.

(a) Describe the vegetation shown in Figs. 4.1 and 4.2.

.....

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..... [5]

(b) Fig. 4.2 also shows a waste heap produced by the mining of copper ore. Suggest how this may pose a threat to the natural environment.

.....

.....

.....

.....

.....

.....

..... [3]

[Total: 8]

5 Fig. 5.1 shows information about the states most affected by soil erosion in one year in the USA. Information is shown for two types of soil erosion: by wind and by water.

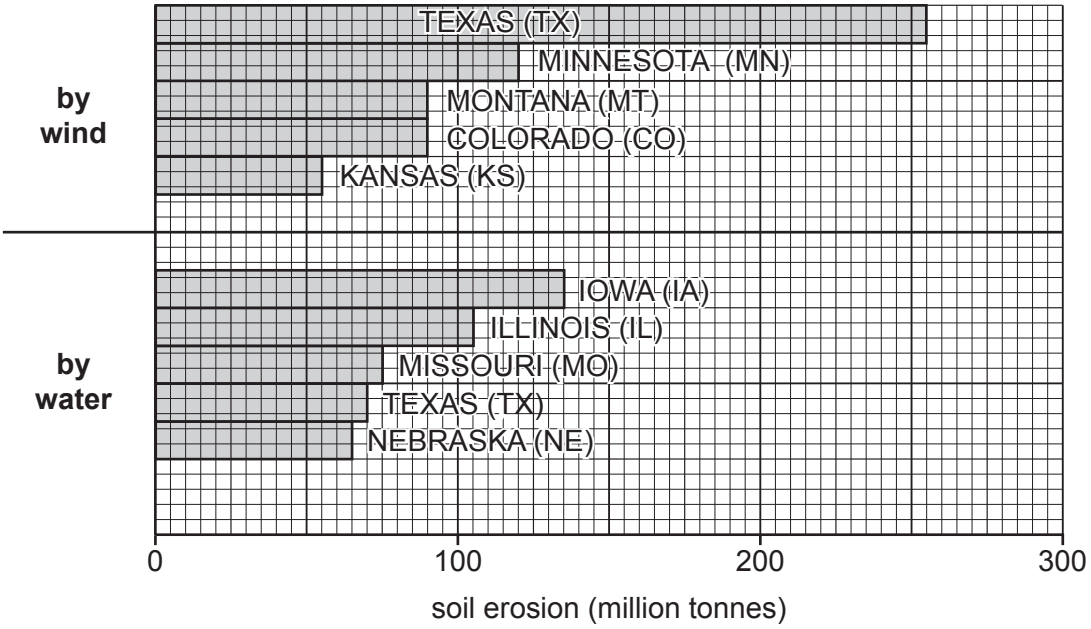


Fig. 5.1

(a) How much soil was eroded by water in Missouri?

..... million tonnes [1]

(b) Fig. 5.2 shows the location of the states listed in Fig. 5.1.

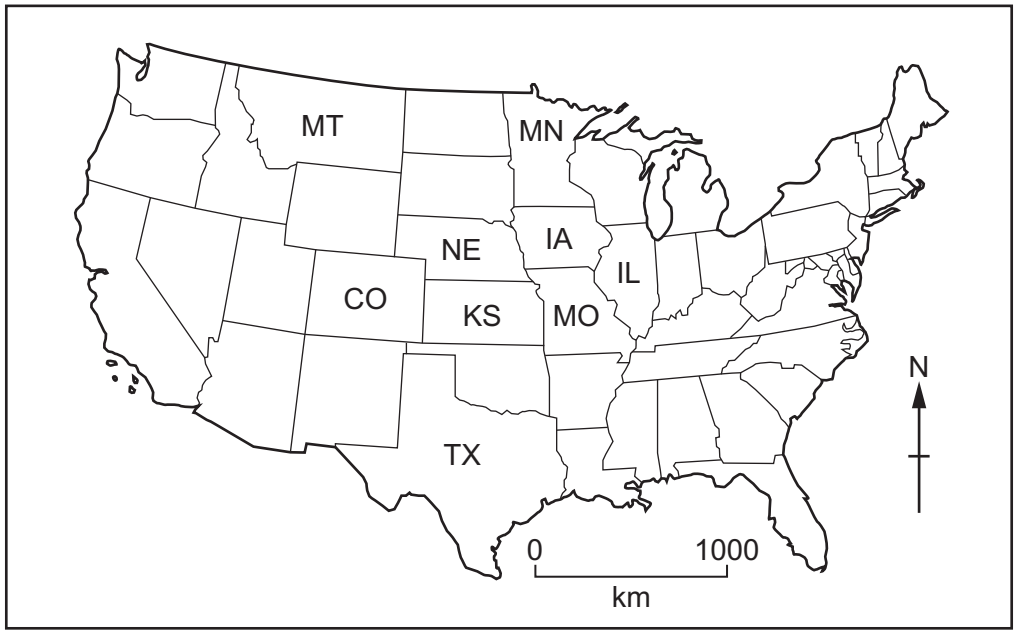


Fig. 5.2

(i) Which of the following statements describes the location of the states in Fig. 5.2? Tick **one** box below.

	Tick (✓)
mostly in the centre	
mostly in the south	
mostly in the west	

[1]

(ii) Using Figs. 5.1 and 5.2, give **one** difference between the distribution of the states with soil erosion by wind and the distribution of the states with soil erosion by water.

.....

..... [1]

(c) Fig. 5.3 shows the rainfall of the states shown in Figs. 5.1 and 5.2.

Annual average rainfall (mm)

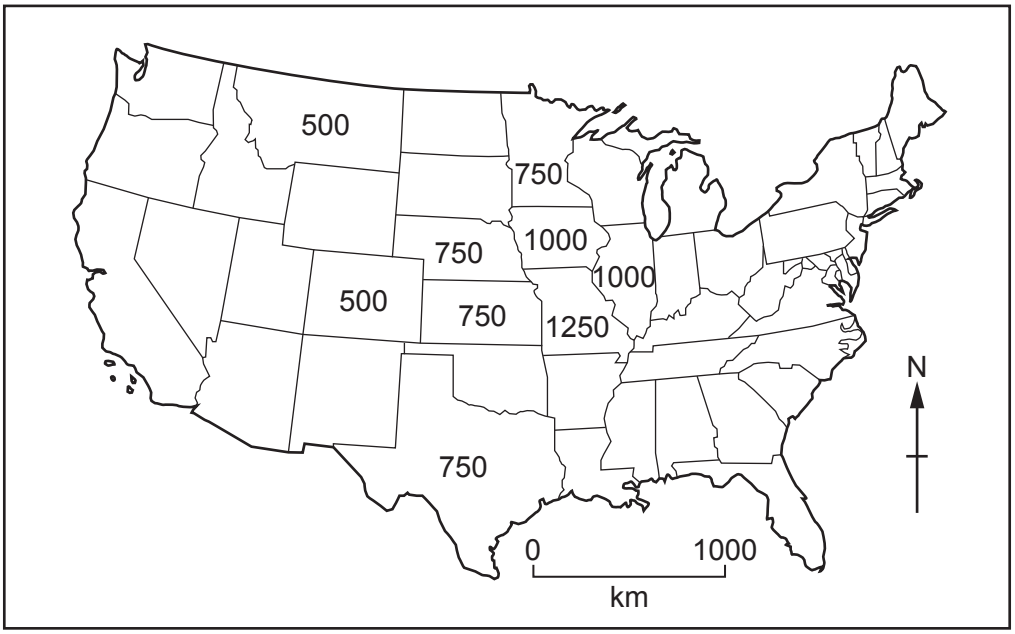


Fig. 5.3

(i) Using Figs. 5.1, 5.2 and 5.3, describe how the amount of rainfall affects whether soil erosion is by wind or by water.

.....

.....

..... [1]

(ii) Explain why the amount of rainfall affects whether soil erosion is by wind or by water.

.....

.....

.....

.....

..... [2]

(d) Give **two** ways of preventing or reducing soil erosion.

1 .....

.....

2 .....

..... [2]

[Total: 8]

TURN PAGE FOR QUESTION 6

6 Fig. 6.1 gives information about industry in Japan.

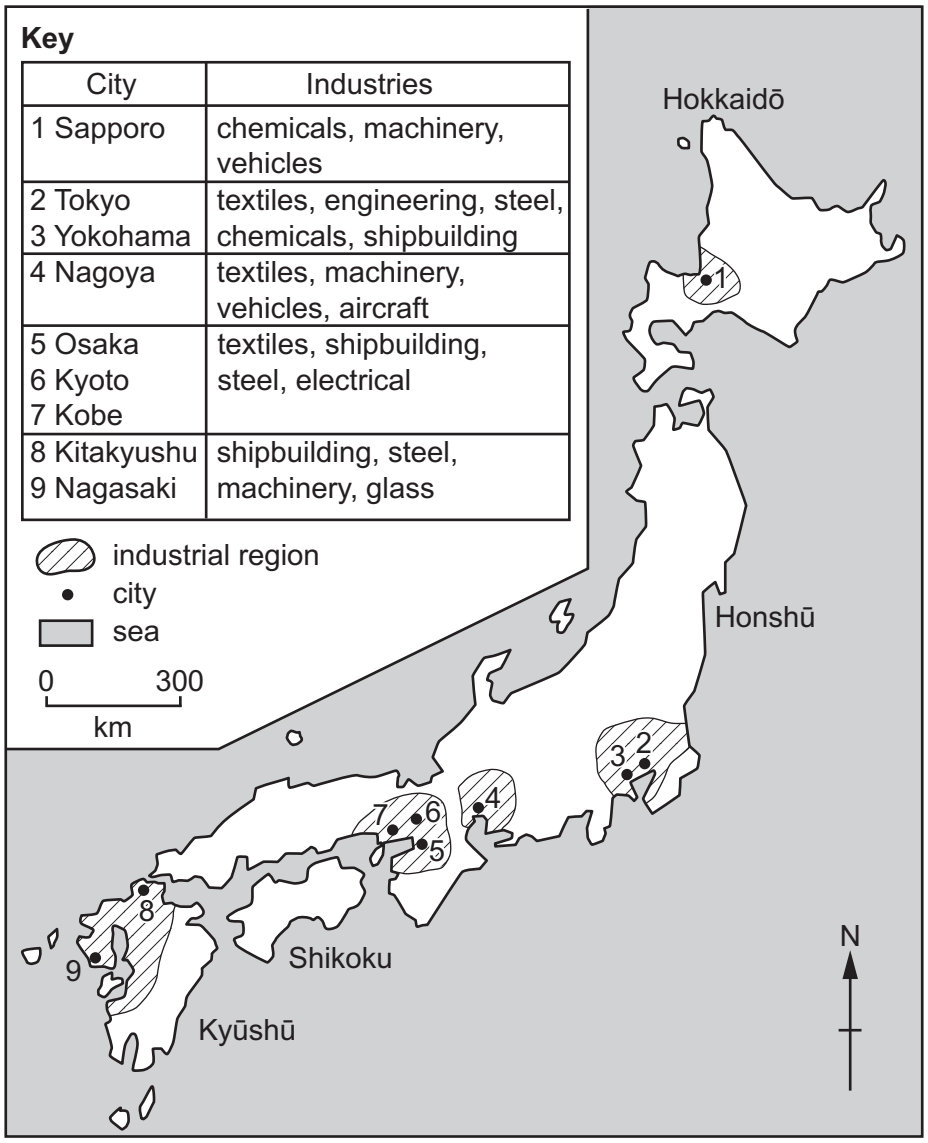


Fig. 6.1

(a) Describe the distribution of industrial regions shown in Fig. 6.1.

.....

.....

.....

.....

.....

.....

..... [3]

(b) What type of industries are shown in Fig. 6.1? Circle **one** answer below.

primary secondary tertiary quaternary

[1]

(c) Fig. 6.2 shows Japan's relief, imports and exports.

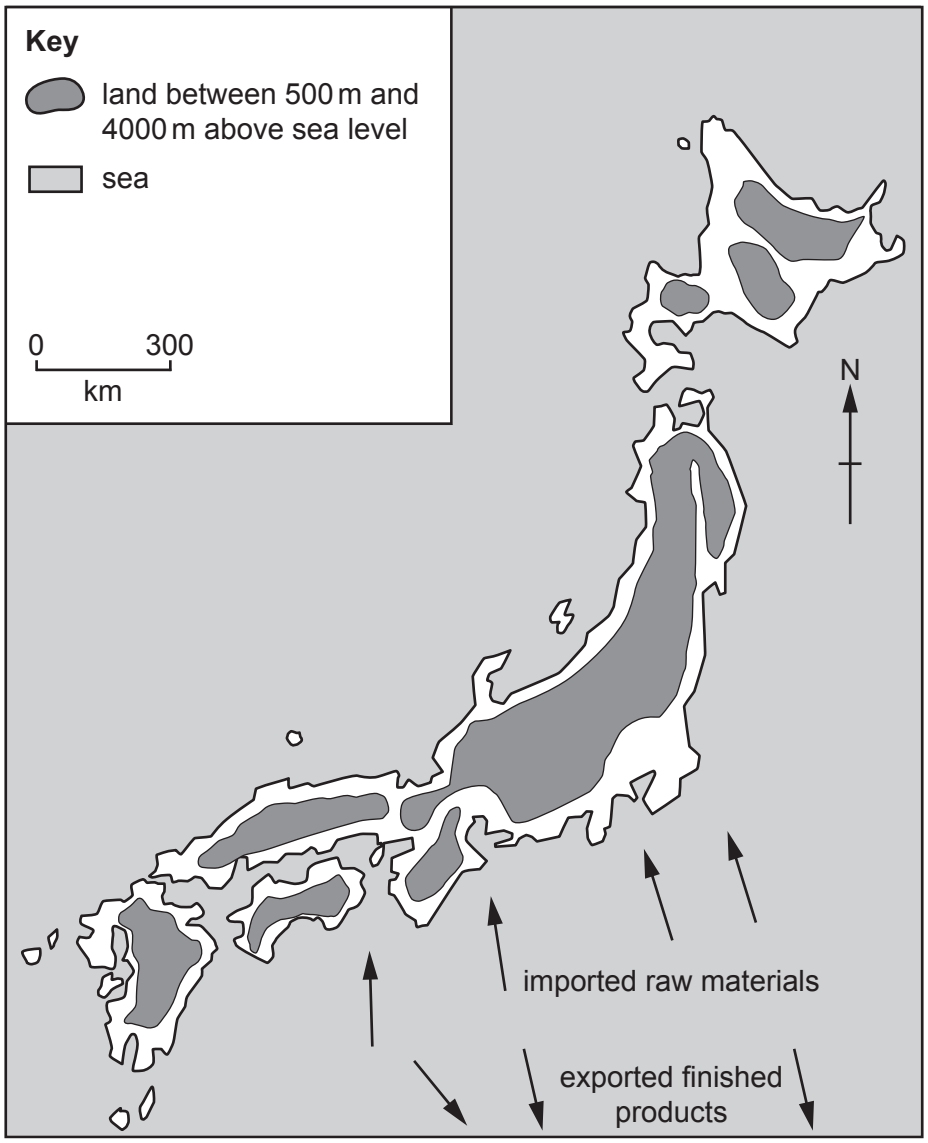


Fig. 6.2

Using evidence from Figs. 6.1 and 6.2 **only**, explain the factors which have influenced the location of industrial regions in Japan.

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..... [4]

[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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