



1 Study the map extract for Beith, Scotland. The scale is 1:25 000.

(a) Fig. 1.1 shows some of the features in the south-west of the map extract. Study Fig. 1.1 and the map extract and answer the questions below.

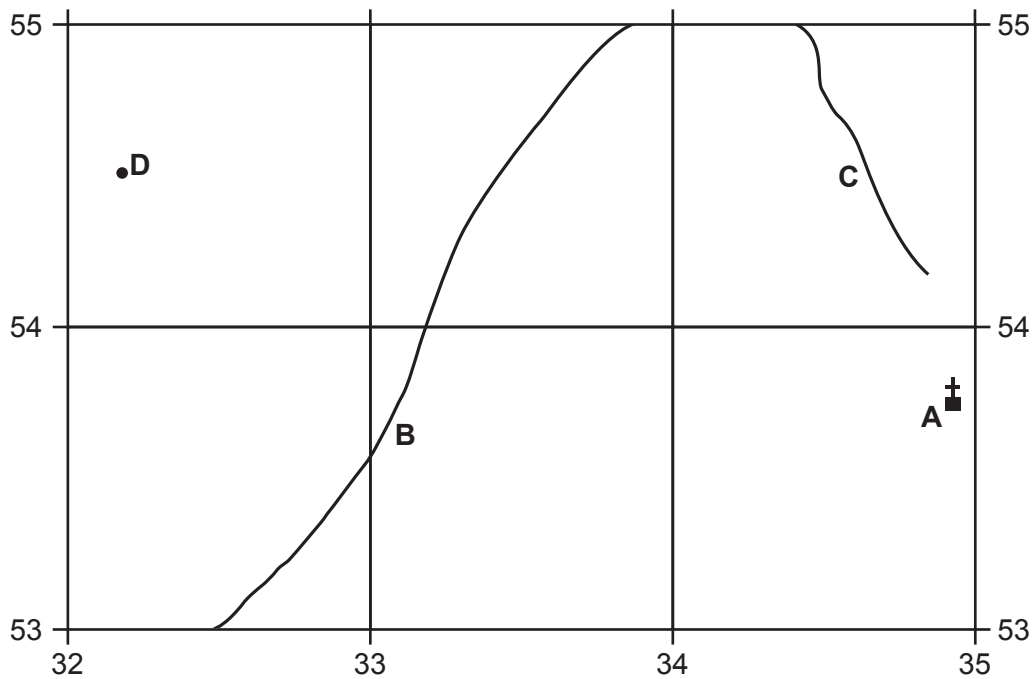


Fig. 1.1

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

(i) feature **A**

..... [1]

(ii) feature **B**

..... [1]

(iii) feature **C**

..... [1]

(iv) the height above sea level of the spot height (survey height) at **D**.

..... metres [1]

(b) Study the map extract and answer the questions that follow.

(i) Estimate the area of Kilbirnie Loch in the south of the map extract. Tick (✓) **one** box below.

	tick (✓)
1 km <sup>2</sup>	
1.5 km <sup>2</sup>	
2 km <sup>2</sup>	
2.5 km <sup>2</sup>	

[1]

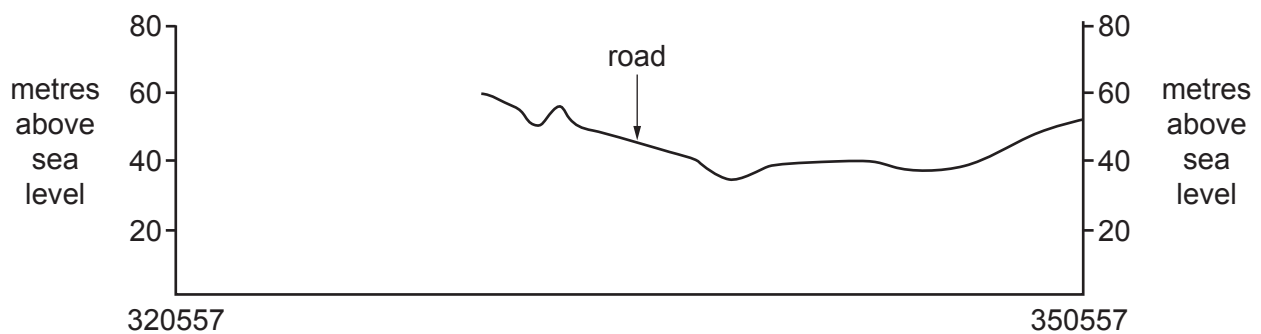
(ii) Identify **three** tourist attractions shown on the map extract.

1 .....

2 .....

3 ..... [3]

(c) Fig. 1.2 is a cross-section along northing 557 from 320557 to 350557.



**Fig. 1.2**

(i) On Fig. 1.2, **use a labelled arrow** to show the position of the A760. [1]

(ii) The cross-section shown on Fig. 1.2 is incomplete. Using information from the map extract, draw a line on Fig. 1.2 to **complete the cross-section**. [2]



**TURN PAGE FOR QUESTION 2**

2 Fig. 2.1 (Insert) shows global population density.

(a) Describe the distribution of densely populated areas and sparsely populated areas.

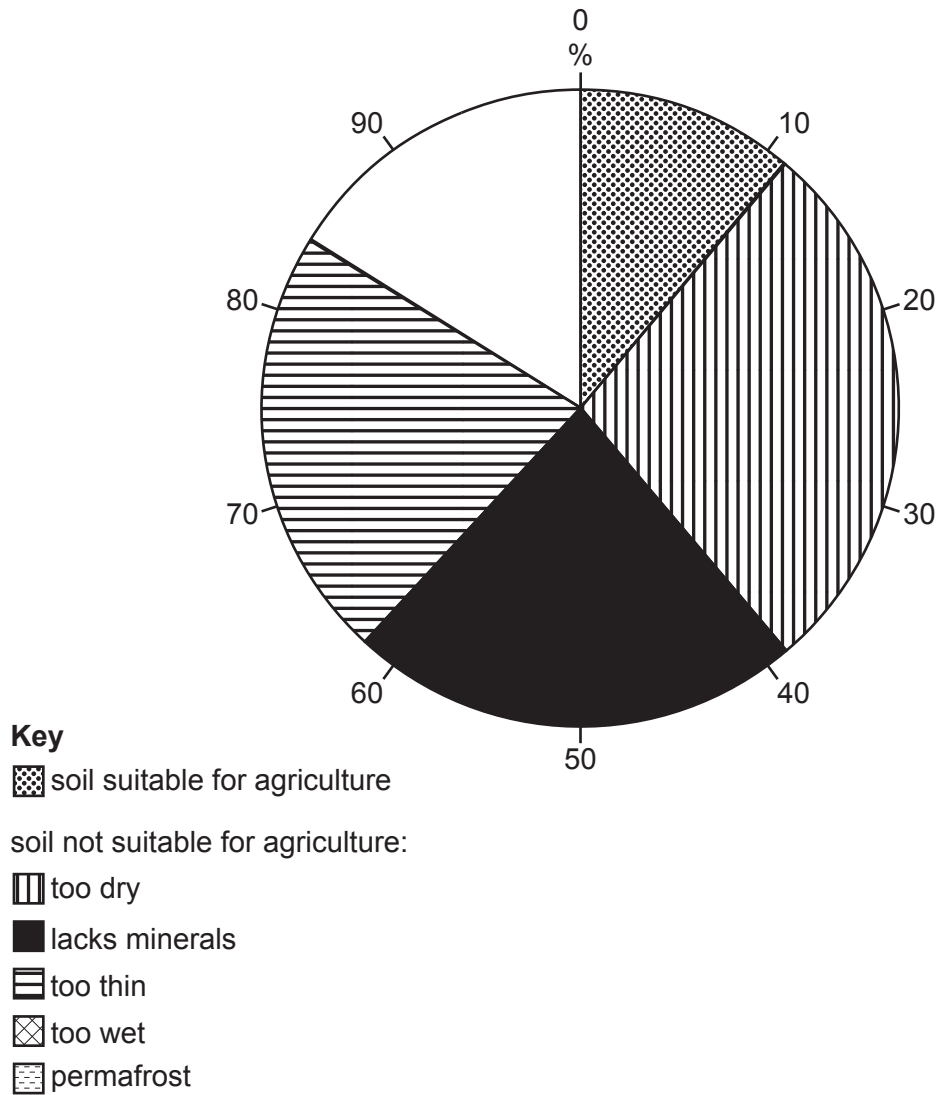
Densely populated areas

.....  
.....  
.....  
.....

Sparsely populated areas

.....  
.....  
.....  
..... [4]

- (b) One of the factors which affects population distribution is an area's suitability for agriculture. Fig. 2.2 shows the global percentage of areas which are suitable and unsuitable for agriculture.



**Fig. 2.2**

- (i) **Complete Fig. 2.2** using the information below:

too wet 10%  
permafrost 6%

[2]

- (ii) Using Fig. 2.2 **only**, describe how soil affects the world's agriculture. Do **not** use statistics in your answer.

.....

.....

.....

..... [2]

[Total: 8]

- 3 Fig. 3.1 shows the main sources of two air pollutants, carbon monoxide and nitrogen oxides, in Hong Kong in 2015.

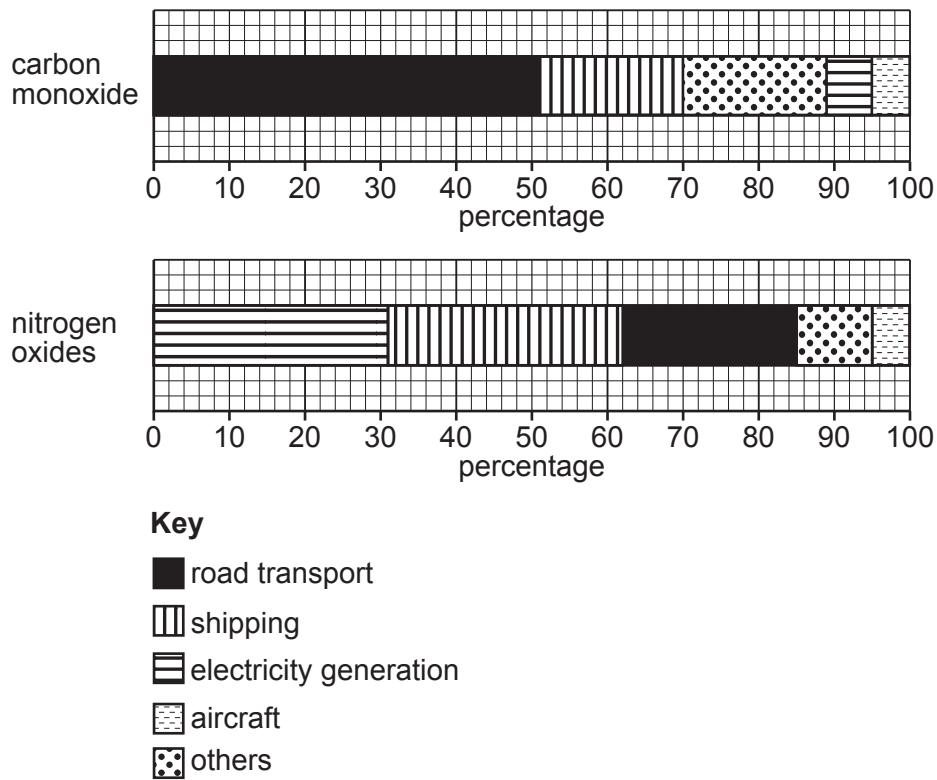


Fig. 3.1

- (a) Using Fig. 3.1, compare the differences between the sources of the two air pollutants. Do **not** use statistics in your answer.

.....

.....

.....

.....

.....

.....

.....

..... [3]

- (b) One of the main sources of carbon monoxide emissions is traffic congestion. Using Fig. 3.2 (Insert), explain the attempts to reduce traffic congestion in this part of Hong Kong.

.....

.....

.....

.....

.....

.....

.....

..... [3]



(c) Suggest **two** reasons why it is difficult to reduce the number of people using cars on the road.

1 .....

.....

2 .....

..... [2]

[Total: 8]



(b) State **four** reasons why many people live near volcanoes.

1 .....

.....

2 .....

.....

3 .....

.....

4 .....

..... [4]

[Total: 8]



(b) Fig. 5.2 shows the nutrient cycle of a tropical rainforest as a systems diagram.

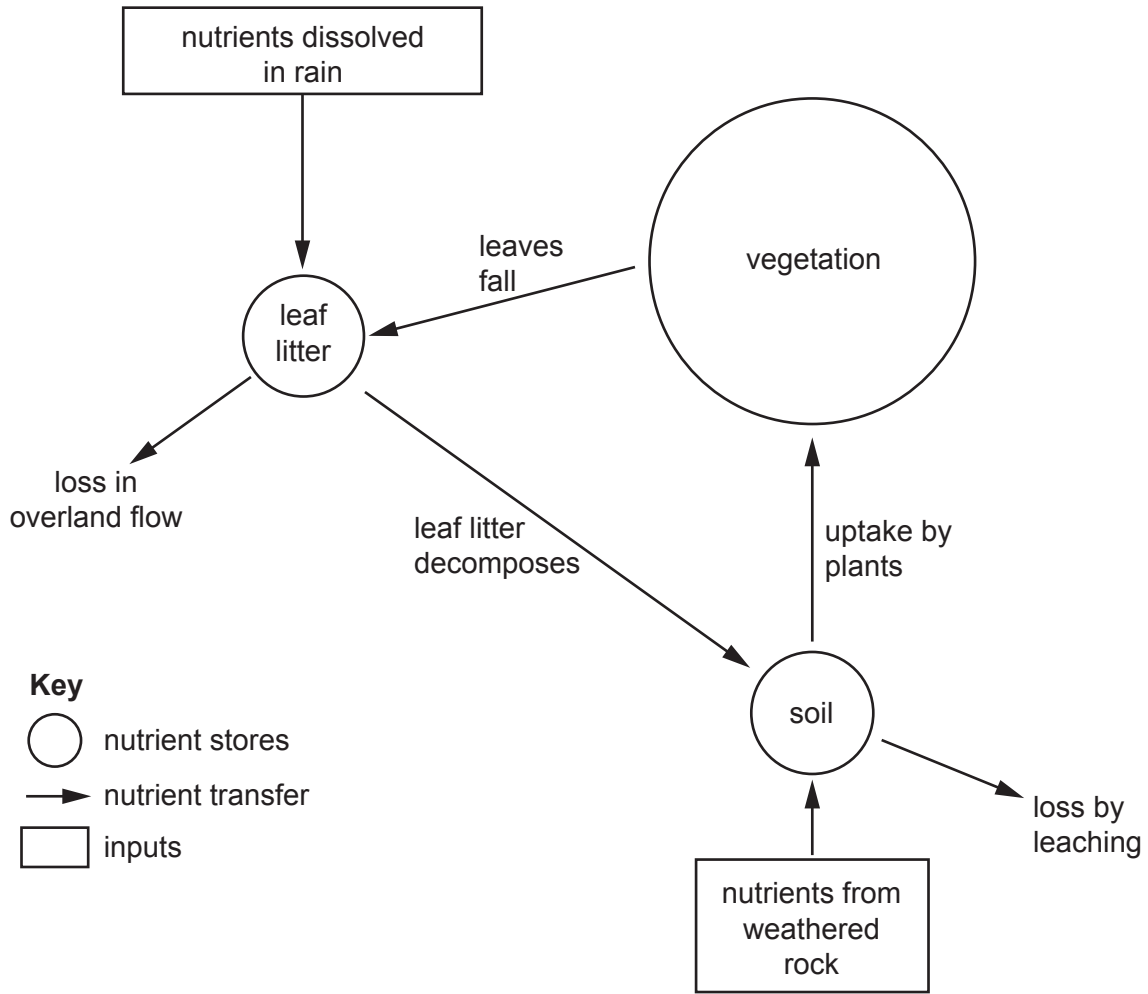


Fig. 5.2

(i) Which is the largest nutrient store in Fig. 5.2?

..... [1]

(ii) Identify **one** way in which nutrients enter the system.

..... [1]

(c) How does vegetation reduce overland flow and soil erosion?

overland flow .....

.....

soil erosion .....

..... [2]

[Total: 8]





