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Answer ALL questions.

1. A student carried out a fieldwork investigation of shopping in the Causeway Bay area of Hong Kong.

Study Figure 1(a), which shows the sites used in this fieldwork investigation.

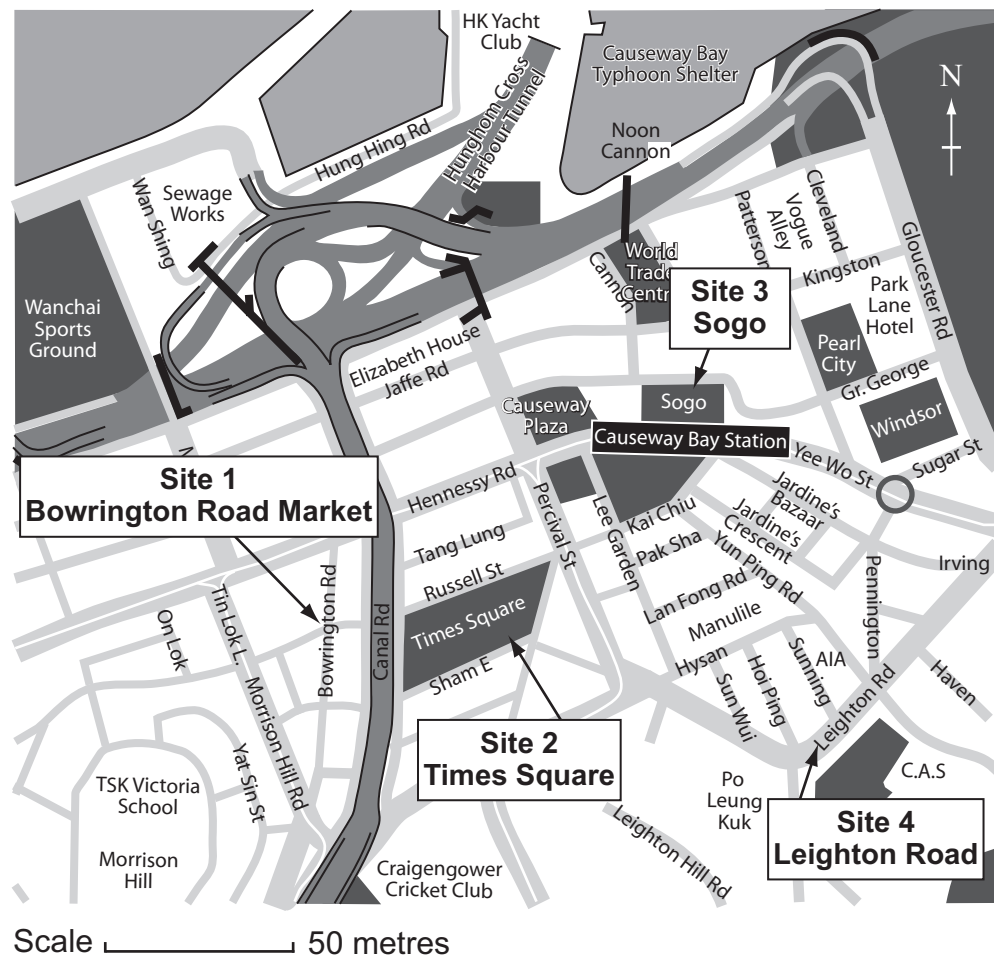


Figure 1(a)

(a) Which fieldwork site is:

- (i) nearest to the typhoon shelter

..... (1)

- (ii) furthest south

..... (1)

- (iii) about 50 metres west of Times Square?

..... (1)



(b) The student counted the number of pedestrians walking past each of the sites for a five minute period. Figure 1(b) shows the results of this survey.

Site number	Number of pedestrians
1	90
2	200
3	160
4	10

Figure 1(b)

(i) Use the information in Figure 1(b) to complete Figure 1(c) by:

- 1 plotting the values for Sites 3 and 4
- 2 adding labels to the y axis.

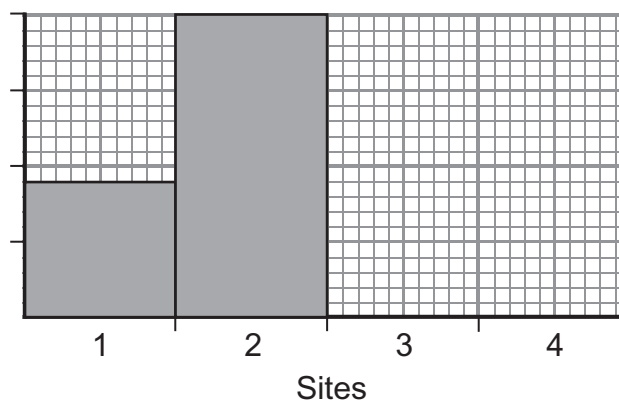


Figure 1(c)

(2)

(ii) Describe **two** features shown by your completed Figure 1(c).

Feature 1

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.....

Feature 2

.....
.....

(2)



(c) The student then investigated the types of shop at each of the four sites. The results are shown on Figure 1(d).

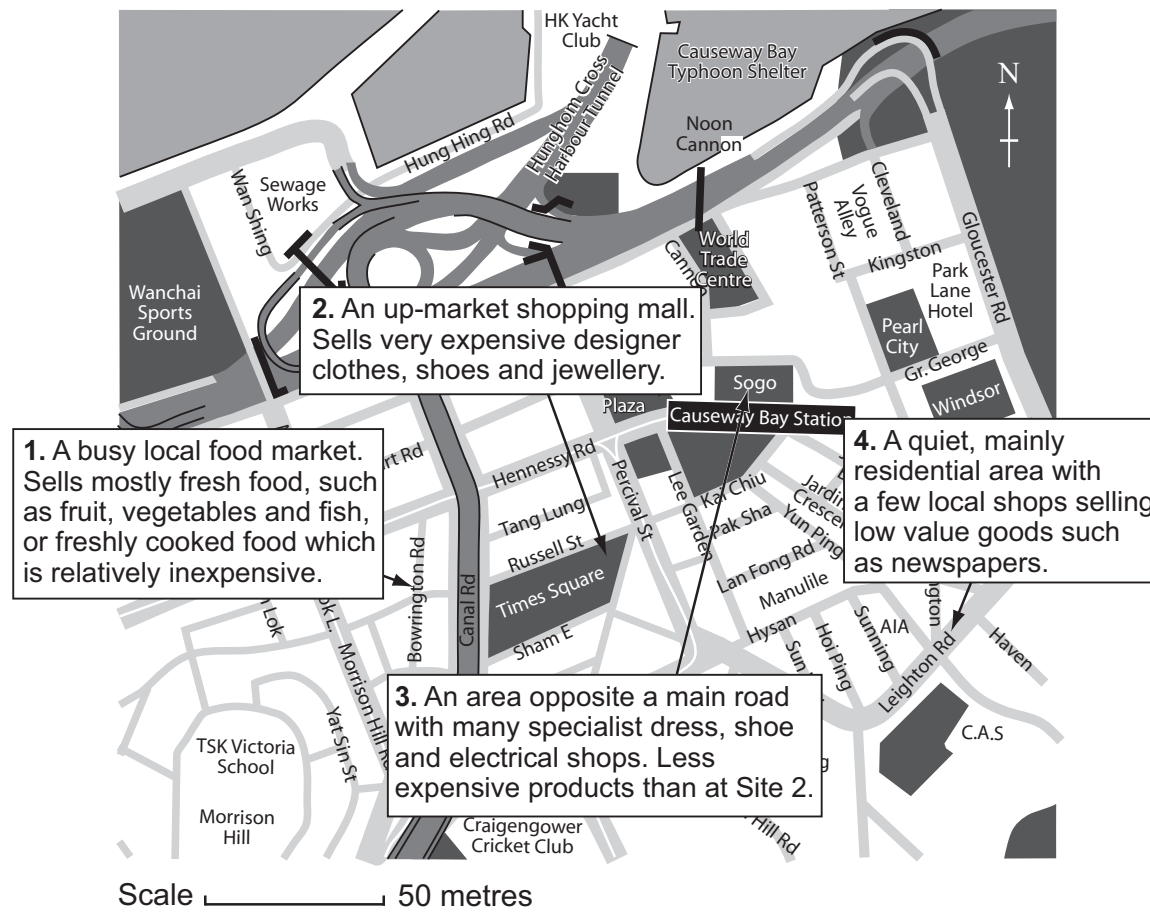


Figure 1(d)

What conclusions might you reach about the relationship between the number of pedestrians (Figure 1(c)) and the nature of shopping at each site?

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(3)



(d) The student then carried out an environmental survey at each site. The results are shown in Figure 1(e).

Site	Street cleanliness	Outside appearance of buildings	Empty buildings	Total score for each site
1	3	3	2	8
2	5	5	5	15
3	4	3	3	10
4	4	4	5	13
	5 = very clean and no litter 1 = very dirty with a serious litter problem	5 = well maintained with attractive window display 1 = poorly maintained	5 = all buildings occupied 1 = many empty buildings	

Figure 1(e)

(i) Complete the scattergraph below (Figure 1(f)) by plotting the scores for empty buildings against the total score for each site.

(ii) Plot the line of best fit on Figure 1(f).

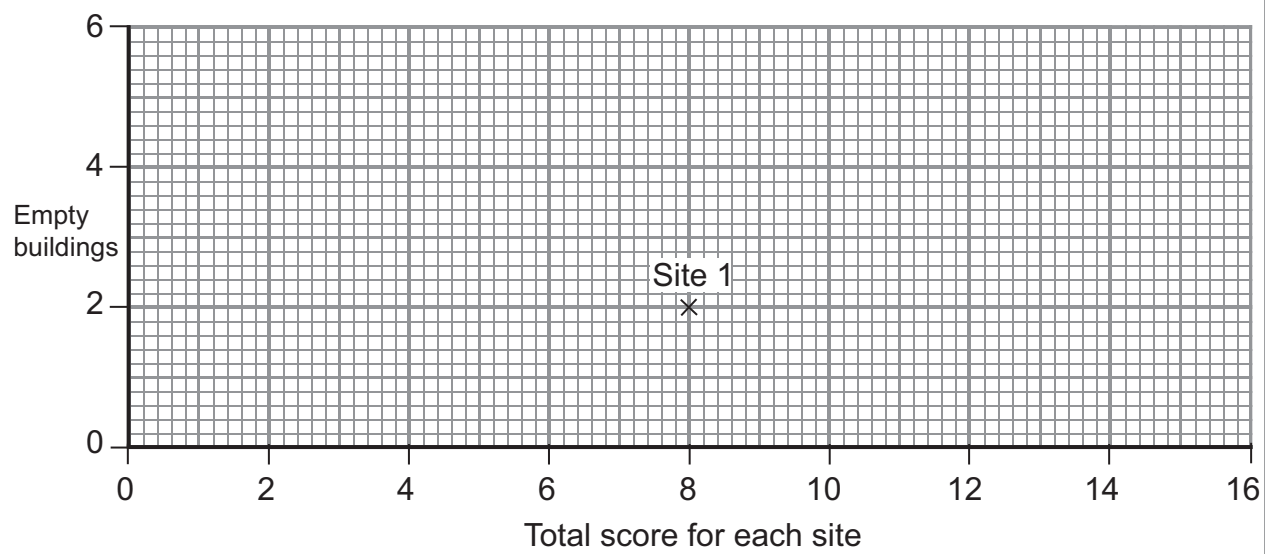


Figure 1(f)

(4)



2. Study Figure 2(a) which shows the River Tana and its tributaries in Kenya. This was the location chosen for a fieldwork investigation.

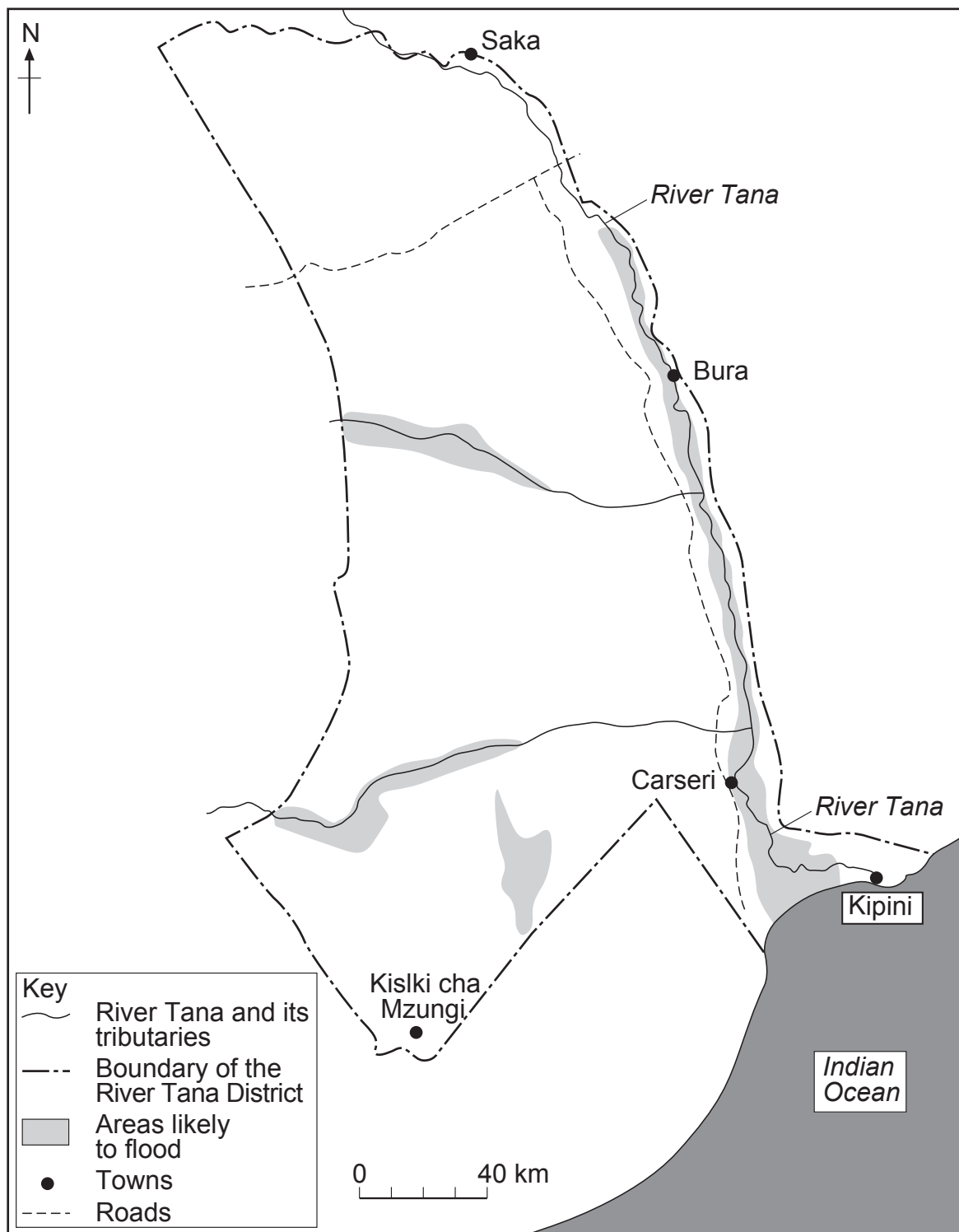


Figure 2(a)



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(a) (i) Using Figure 2(a), choose the correct words from the box below to complete the sentences.

35km meander oxbow lake source 55km
mouth Pacific Ocean southerly Indian Ocean northerly

The River Tana flows approximately in a direction from its..... to the The large river bend near Bura is called a The straight line distance between Carseri and Kipini is

(5)

(ii) Describe the location of areas likely to flood as shown on Figure 2(a).

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(3)



(b) Some students collected data about the use of the River Tana's water. This information is shown in Figure 2(b).

Water use	% share of all water use
Domestic	50
Hydro-electric power	30
Irrigation	10
Industry	10

Figure 2(b)

Plot the data from Figure 2(b) to complete Figure 2(c), a pie chart.



Figure 2(c)

(2)



(c) The students collected data about an irrigation scheme on the River Tana which opened in 1997.

Study Figure 2(d) which shows planned and actual annual rice yields between 1997 and 2000. It also provides information about some important events in the four year period.

Year	Planned annual rice yield (tons)	Actual annual rice yields (tons)	Important events
1997	18 000	2 000	New irrigation scheme opened
1998	18 000	500	Severe floods
1999	18 000	2 000	Normal river flow
2000	18 000	0	Severe droughts

Figure 2(d)

(i) Complete Figure 2(e) by drawing and labelling **two** line graphs to show:

- 1 the **planned** annual rice yields
- 2 the **actual** annual rice yields.

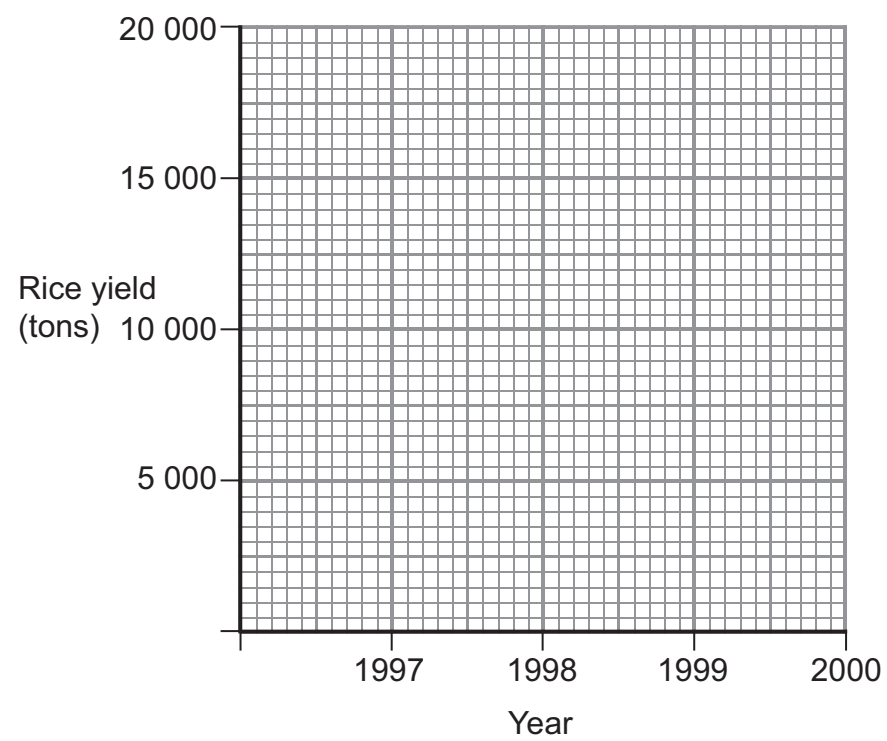


Figure 2(e)

(4)



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(ii) Suggest reasons why the irrigation scheme which opened in 1997 did **not** produce the planned annual rice yields over the four year period.

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(4)

(iii) Suggest possible limitations of the data collected by the students.

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(2)

(Total 20 marks)

Q2



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3. Use your own experience of ONE fieldwork investigation to answer this question.

Write the title of your investigation.

.....

(a) Describe the main aim of your fieldwork investigation.

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(2)

(b) What data did you **plan** to collect?

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(3)



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(c) Describe the equipment and the sampling techniques you used to collect your data.
You may include diagrams as part of your answer.

Equipment

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Sampling techniques

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(6)



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(d) Explain why you chose **either** the equipment **or** the sampling techniques you have described in (c).

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(3)

(e) Describe **one** method you used to present your data. You may include a diagram as part of your answer.

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(3)



(f) Describe any problems you met when collecting your planned data.

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(3)

(Total 20 marks)

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Q3

TOTAL FOR PAPER: 60 MARKS

END

