Answer **all** questions.

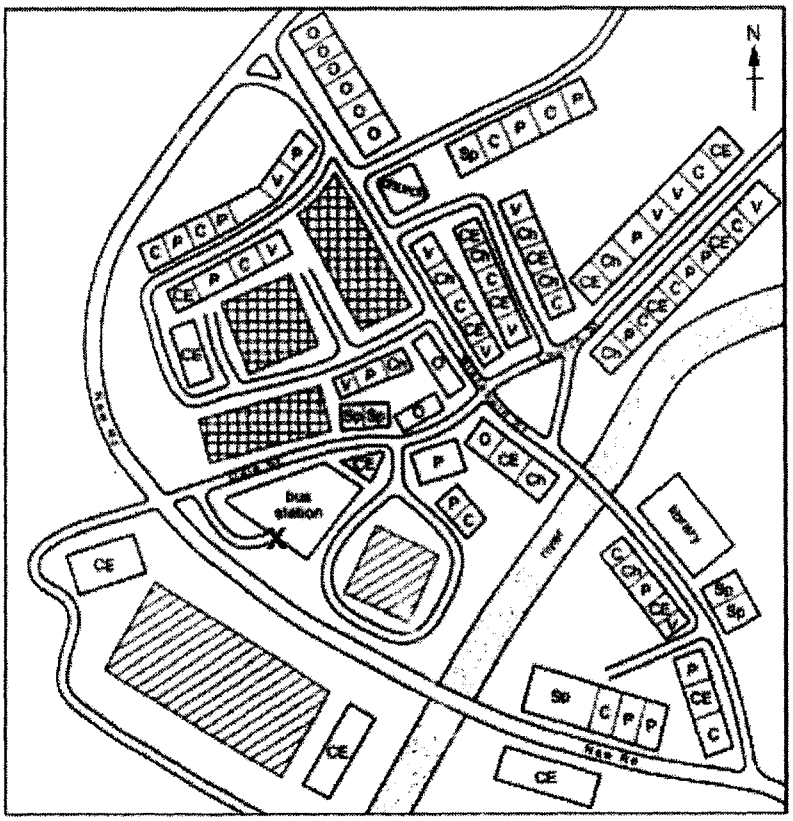
1 Cluster 1: Geography in Everyday Life

A group of students in the United Kingdom wanted to investigate causes of air pollution in their city area and residents' opinions on strategies taken to reduce it. They went to the city area on a weekday and used a closed-ended questionnaire survey to collect the views of the residents.

They divided themselves into two groups, with one group interviewing the first 50 residents who are less than 50 years old and the other group interviewing the first 50 residents who are above 50 years old. Each group of students interviewed 50 residents.

They conducted their questionnaire at the location labelled X shown in Fig.1.1. A copy of their questionnaire is in Fig. 1.2 (Insert).

Land use map of the city area in the United Kingdom



Key:

Household goods store	
Supermarket	
Convenience goods store	C
Specialist store non-food (e.g. florist, travel agent)	Sp
Personal services (e.g. hairdresser, nail parlour)	P
Charity shop	Ch
Cafe	CE
Offices	O
Vacant shop space	V

Fig. 1.1

(a) Explain the advantages and a safety concern of conducting their questionnaire at location X.

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(b) The students collected some information on the types of air pollution and their origin. They represented the information in a comparative bar graph.

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Table 1.1 shows the information collected by the students and Fig. 1.3 shows their partially completed graph.

Table 1.1

Types of air pollution and their origin

origin of air pollution (%) / types of air pollution	transportation	fuel burning	industrial processes	construction and agriculture
carbon monoxide	85	5	10	0
dust and airborne particles	1	2	2	95
nitrogen oxides	49	47	4	0
sulfur oxides	3	85	10	2
others	35	3	62	0

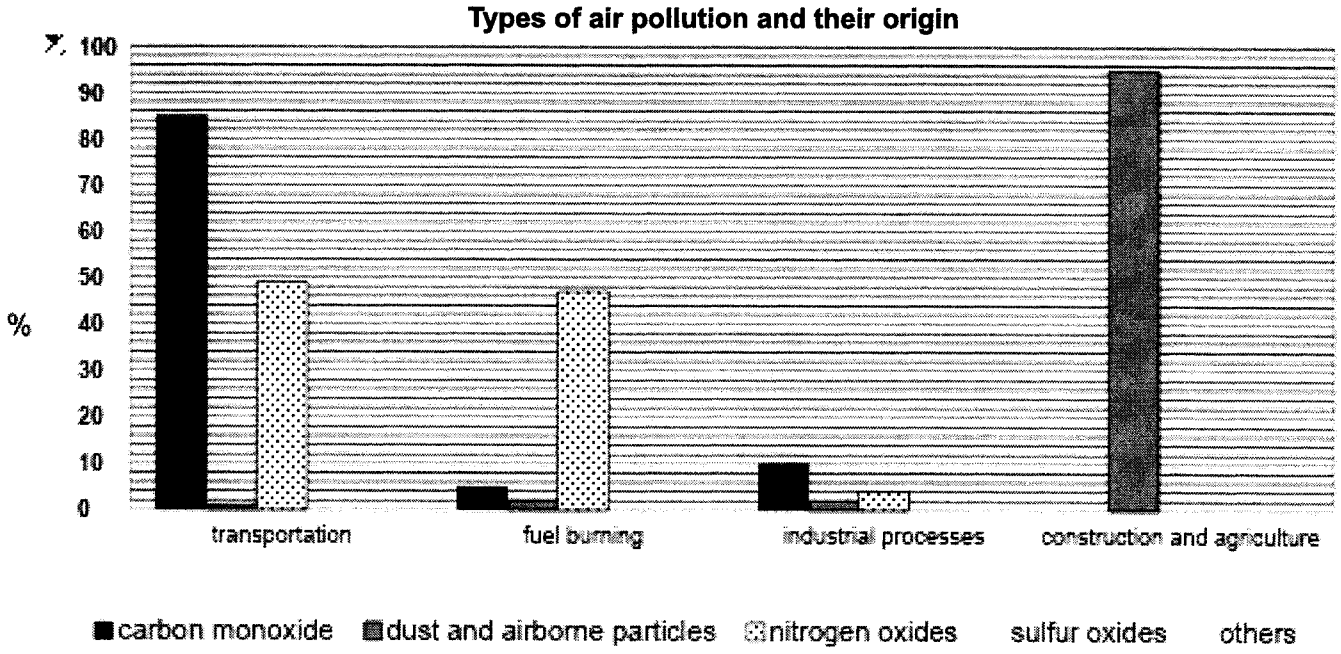


Fig. 1.3

(i) Use the information in Table 1.1 to complete the bar graph in Fig. 1.3 for transportation and industrial processes. [2]

(ii) Describe one other graphical method the students could use to present the data in Table 1.1.

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(c) The students created a list of strategies to reduce air pollution and classified them as nature-based or policy-based. They wanted to test the hypothesis: '*People are more supportive of nature-based strategies compared to policy-based strategies to reduce air pollution*'.

When conducting the questionnaire, the students decided to show respondents photographs of how other cities have adopted these strategies to reduce pollution, as seen in Figs. 1.4A (Insert) and 1.4B (Insert).

Table 1.2 shows the results of the close-ended questionnaire survey conducted on respondents' opinion of strategies to reduce air pollution in their city.

Table 1.2

Respondents' opinion of strategies to reduce air pollution in their city

		<50 years old		> 50 years old	
strategies to reduce air pollution	**classification**	**support the strategy**	**do not support the strategy**	**support the strategy**	**do not support the strategy**
plant more trees	nature-based	41	9	32	18
promote green walls and green roofs	nature-based	30	20	29	21
create more green spaces and parks	nature-based	35	15	39	11
build extensive network of cycling lanes	policy-based	23	27	12	38
provide subsidies for electric cars	policy-based	39	11	42	8
introduce car free days on weekends	policy-based	21	29	9	41

(i) To what extent does the data in Table 1.2 support the students' hypothesis?

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(ii) With reference to Table 1.2, explain some factors which could have influenced how supportive respondents are of the various strategies.

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(d) Evaluate the data collection methods used by the students.

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2 Cluster 2: Tourism

(a) Study Fig. 2.1, which shows tourist arrivals to Thailand from 2015 to 2023.

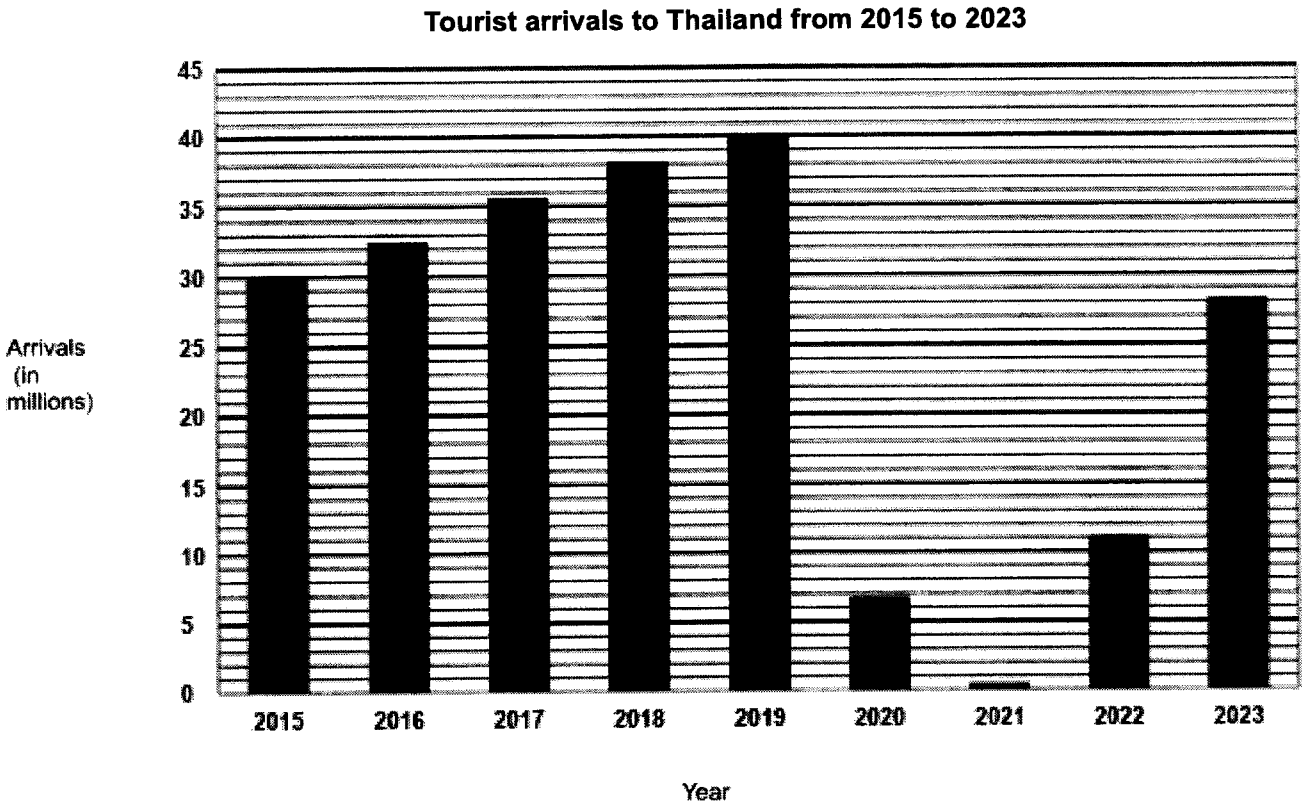


Fig. 2.1

Using Fig. 2.1, describe the trends in tourist arrivals to Thailand from 2015 to 2023.

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(b) Study Fig. 2.2A (Insert), which shows the location of hotels in Saint Lucia, a country in the Caribbean, and Fig. 2.2B (Insert), which shows other information about Saint Lucia.

(i) Using Fig. 2.2A, describe the location of hotels in Saint Lucia.

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(ii) Using Figs. 2.2A and 2.2B, account for the location of hotels in Saint Lucia.

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(c) Describe how online media has influenced the rise of niche travel.

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(d) Describe how tourism can result in positive environmental impacts.

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3 Cluster 3: Climate

(a) Explain why corals and mangroves are important coastal ecosystems.

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(b) Study Fig. 3.1A (Insert), which shows the population density of the Netherlands, and Fig. 3.1B (Insert), which shows a simplified relief map of the Netherlands.

Using Figs. 3.1A and 3.1B, explain why the Netherlands faces a severe threat from climate change.

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(c) 'Structural adaptation strategies are more effective than social adaptation strategies in building community resilience to climate change.'

How far do you agree with this statement? Explain your answer.

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Question 1(c)	Figure 1.4A	©https://www.theguardian.com/environment/2023/feb/01/planting-trees-cities-cut-deaths-summer-heat-study
Question 1(c)	Figure 1.4B	© https://www.stefanoboeriarchitetti.net/en/project/vertical-forest
Question 2(a)	Figure 2.1	© https://www.statista.com/statistics/994693/thailand-number-international-tourist-arrivals/
Question 2(b)	Figure 2.2A	© https://www.pinterest.com/pin/pinrepincom--1829656091200542/
	Figure 2.2B	© https://www.worldatlas.com/maps/saint-lucia
Question 2(c)	Figure 2.3	© https://www.huawei.com/en/tech4all/stories/restoring-mauritius-coral-reef-ecosystem
Question 3(b)	Figure 3.1A	© http://www.cambridgeinternational/igcse/2023
	Figure 3.1B	© http://www.cambridgeinternational/igcse/2023

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Fig. 1.2 for Question 1

The closed-ended questionnaire survey used to collect respondents' view on strategies to reduce air pollution

- Are you a resident of this city?

□ Yes □ No

(if no, thank you for your time)

- What is your age? (please tick)

□ 21 to 30 □ 31 to 40 □ 41 to 50 □ 51 to 60 □ 61 to 70 □ > 71

- Are you supportive of the following strategies to reduce air pollution in this city? (please circle)

Thank you for your time.

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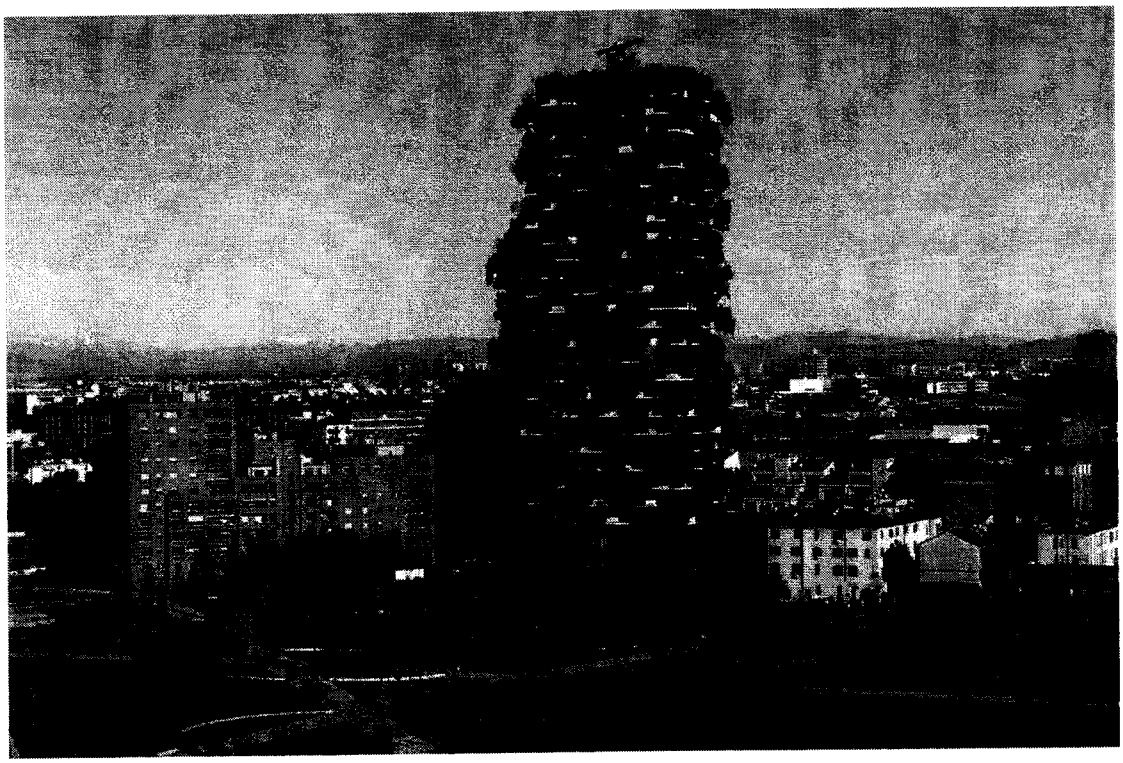
Fig. 1.4A for Question 1

Trees grown in Portuguese cities



Fig. 1.4B for Question 1

Green walls and green roofs in Milan, Italy



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Fig. 2.2A for Question 2

Location of hotels in Saint Lucia

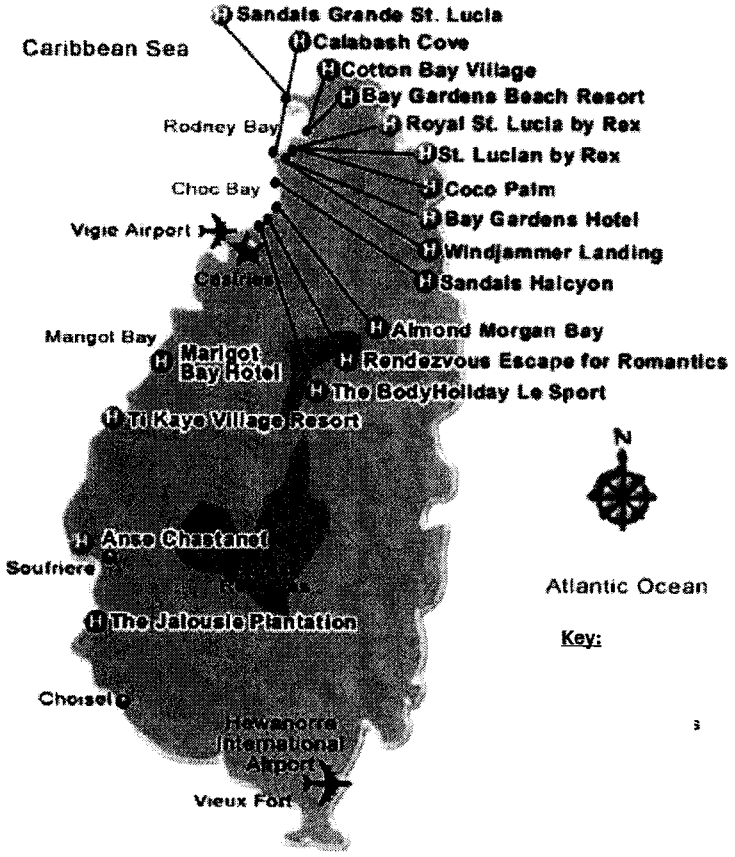
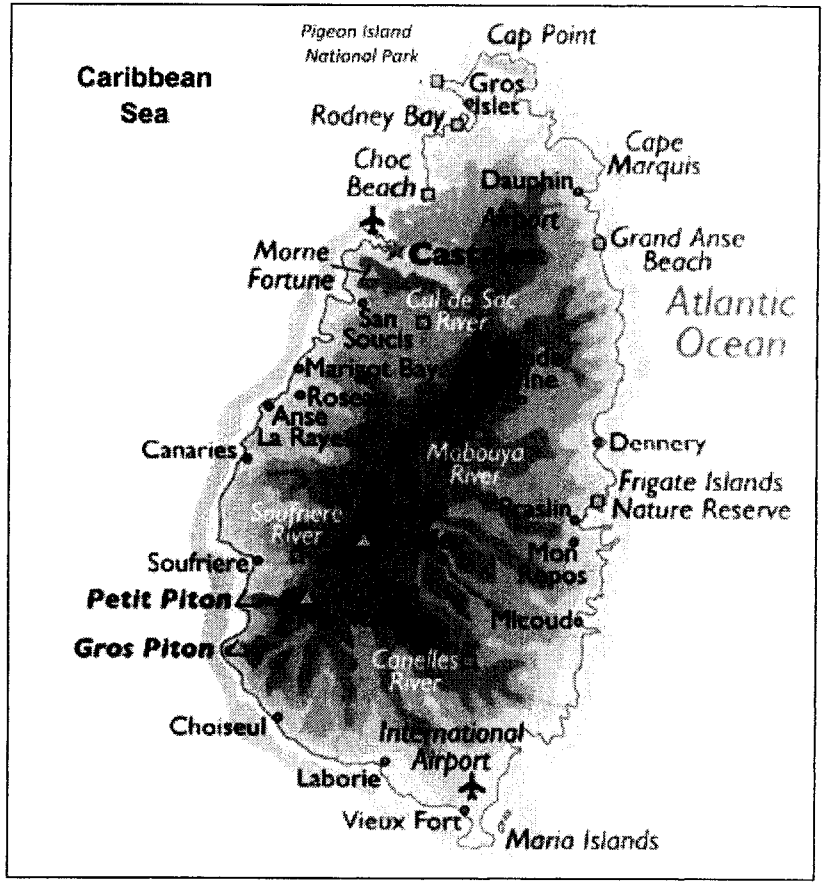


Fig. 2.2B for Question 2

Other information about Saint Lucia



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Fig. 3.1A for Question 3

Population density of the Netherlands

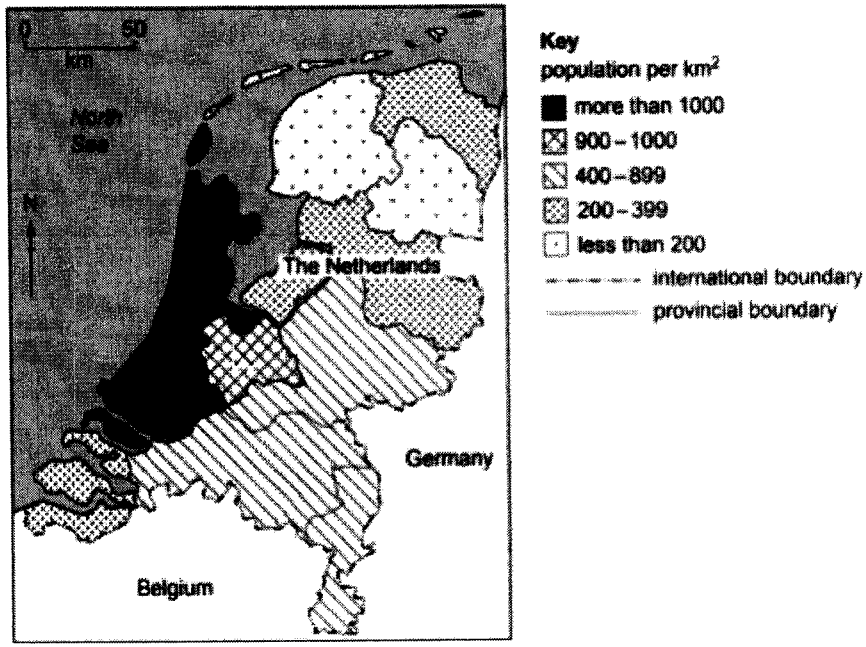
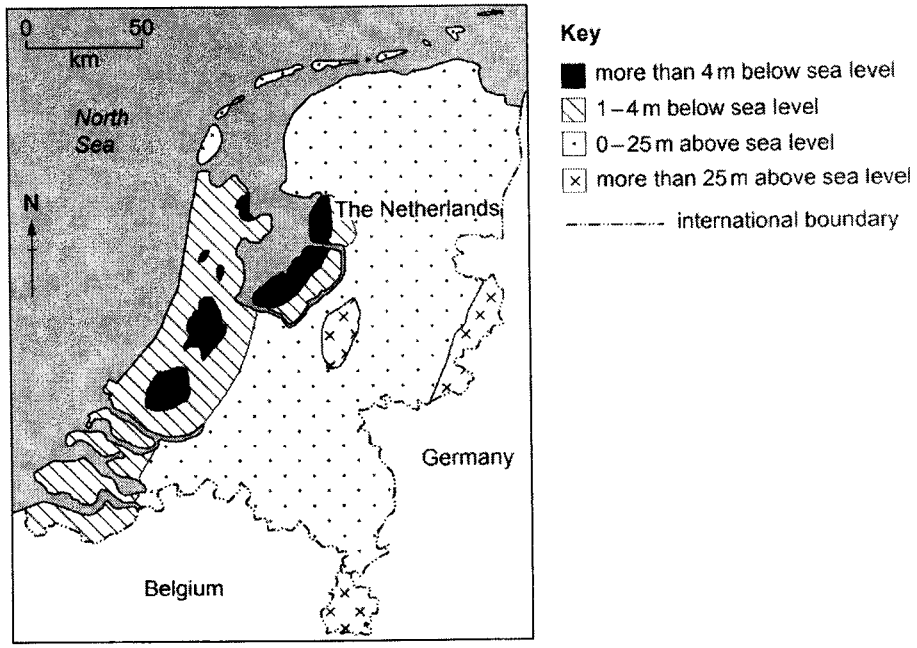


Fig. 3.1B for Question 3

Simplified relief map of the Netherlands



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Answer **all** questions.

1 Cluster 1: Geography in Everyday Life

(a) Study Fig. 1.1 (Insert), which shows an initiative by residents to set up a community library at the void deck of a block of flats in their neighbourhood.

Using Fig. 1.1, describe how the presence of the community library could affect the sense of place of residents in their neighourhood.

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(b) Study Fig. 1.2A (Insert), which shows the number of people who were injured in traffic accidents in Singapore from 2014 to 2023 and Fig. 1.2B (Insert), which shows the number of fatalities in traffic accidents in Singapore from 2014 to 2023.

Using Figs. 1.2A and 1.2B, compare the number of people who were injured and the fatalities in traffic accidents in Singapore from 2014 to 2023.

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(c) Describe how fire hazards can negatively impact individuals living in urban neighbourhoods.

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(d) Study Fig. 1.3 (Insert), which shows the Singapore government's plans to rejuvenate Pasir Ris Town under the Remaking Our Heartlands Programme.

Using Fig. 1.3, evaluate the decision to rejuvenate Pasir Ris Town.

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(a) Study Fig. 2.1 (Insert), which shows the location of the San Andreas Fault.

With reference to Fig. 2.1, explain how earthquakes occur along the San Andreas Fault.

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(b) Study Fig. 2.2 (Insert), which shows a map of the lava flow from the 2021 eruption of the Cumbre Vieja volcano on La Palma in the Canary Islands.

Using Fig. 2.2, describe the extent of the lava flow from the Cumbre Vieja volcano.

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(c) 'Strategies to build community resilience play a more important role in helping to mitigate the impacts of tectonic hazards than disaster management strategies.'

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To what extent do you agree? Explain your answer.

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3 Cluster 5: Singapore

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(a) Study Fig. 3.1 (Insert), which shows the median age of marriage for women in Singapore and fertility rate from 1990 to 2024. Fertility rate refers to the average number of children a woman is expected to have during her lifetime.

Using Fig. 3.1, describe how the median age of marriage for women in Singapore affects the fertility rate.

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(b) Study Fig. 3.2 (Insert), which shows strategies to strengthen Singapore's food security.

With reference to Fig. 3.2, explain how the strategies shown can help to strengthen Singapore's food security.

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(c) Study Fig. 3.3A (Insert), which shows dengue fever cases reported across Singapore in 2020, and Fig. 3.3B (Insert), which shows the location of Housing Development Board (HDB) Towns in Singapore.

Using Fig. 3.3A and 3.3B, describe the distribution of dengue fever cases in Singapore.

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(d) Study Fig. 3.4A (Insert), which shows reclaimed areas and possible future reclamation areas in Singapore, and Fig. 3.4B (Insert), which shows the relief map of Singapore.

(i) Using Fig. 3.4A and Fig. 3.4B, account for the challenges that Singapore could face due to the frequent occurrence of earthquake hazards in the region.

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(ii) Describe how national preparedness plans help Singapore to mitigate and adapt to tectonics hazards in the region.

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(e) Study Fig. 3.5 (Insert), which shows an aerial view of the Marina Bay area.

Sketch the Marina Bay area shown in Fig. 3.5. Annotate the sketch to show three features that help Singapore achieve social and environmental sustainability. [4]

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(f) Study Fig. 3.6 (Insert), which shows approaches that Singapore has implemented to strengthen social resilience.

With reference to Fig. 3.6, explain the approaches that Singapore has implemented to strengthen social resilience.

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Question 1	Fig. 1.2B	© https://www.statista.com/statistics/875856/number-of-casualties-in-traffic-accidents-in-singapore/
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Question 2	Fig. 2.2	© https://commons.wikimedia.org/wiki/File:Buildings_destroyed_by_2021_Cumbre_Vieja_eruption.png
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		© https://data.gov.sg/datasets/d_04db3a4c50f93bc6a6a452b8e125bf78/view
Question 3	Fig. 3.2	© https://psdchallenge.psd.gov.sg/ideas/deep-dive/strengthening-singapore-s-food-security
Question 3	Fig. 3.3A	© https://www.nature.com/articles/s41597-022-01666-y/figures/1
Question 3	Fig. 3.3B	© https://www.srx.com.sg/hdb
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Question 3	Fig. 3.4B	© https://www.mss-int.sg/docs/default source/v3_reports /v3_science_report/v3_science_report_ chapter_12.pdf
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Question 3	Fig. 3.6	© https://www.hdb.gov.sg/about-us/news-and-publications/press-releases/New-River-Crab-Playground-Designed-and-Built-by-2000-Residents-Makes-a-Splash-in-Toa-Payoh

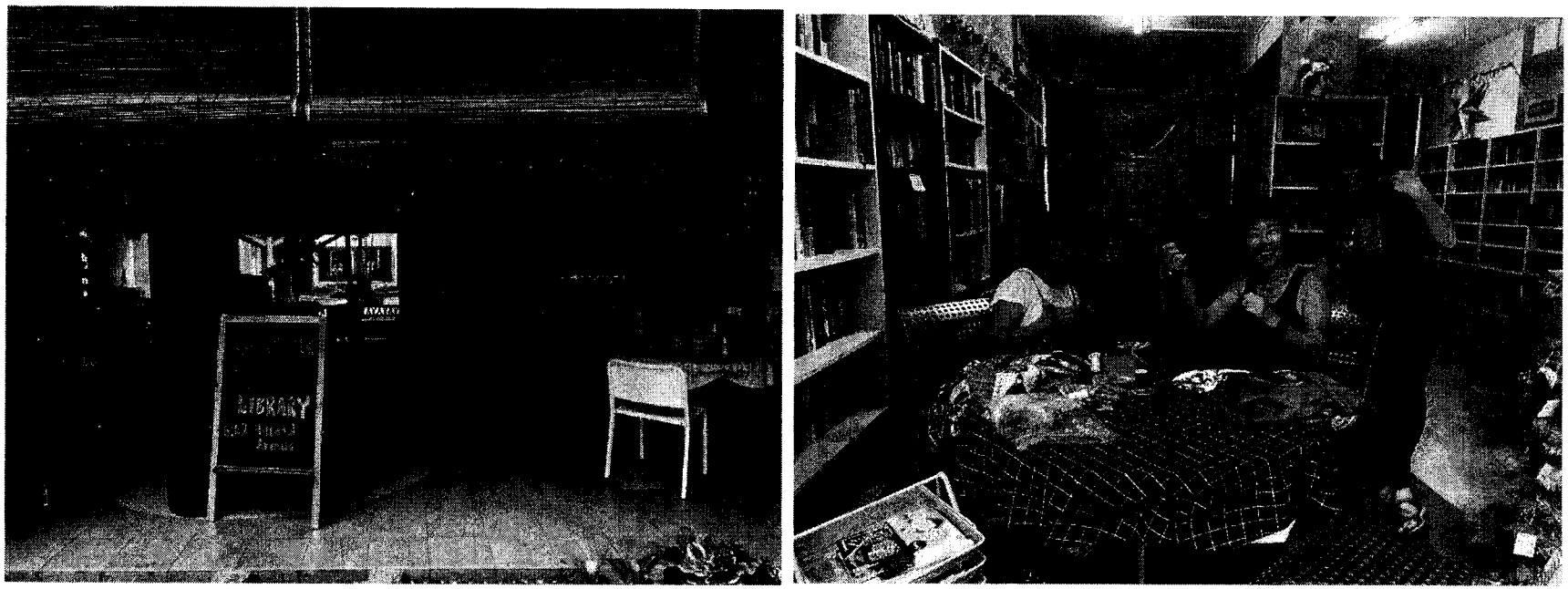
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Fig. 1.1 for Question 1

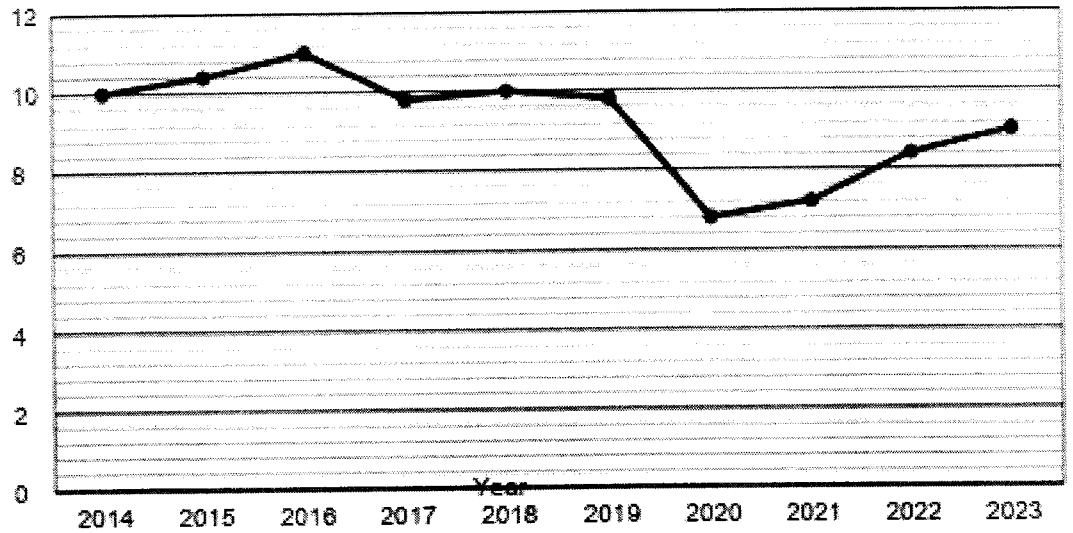
Community library at the void deck of a block of flats in a neighbourhood



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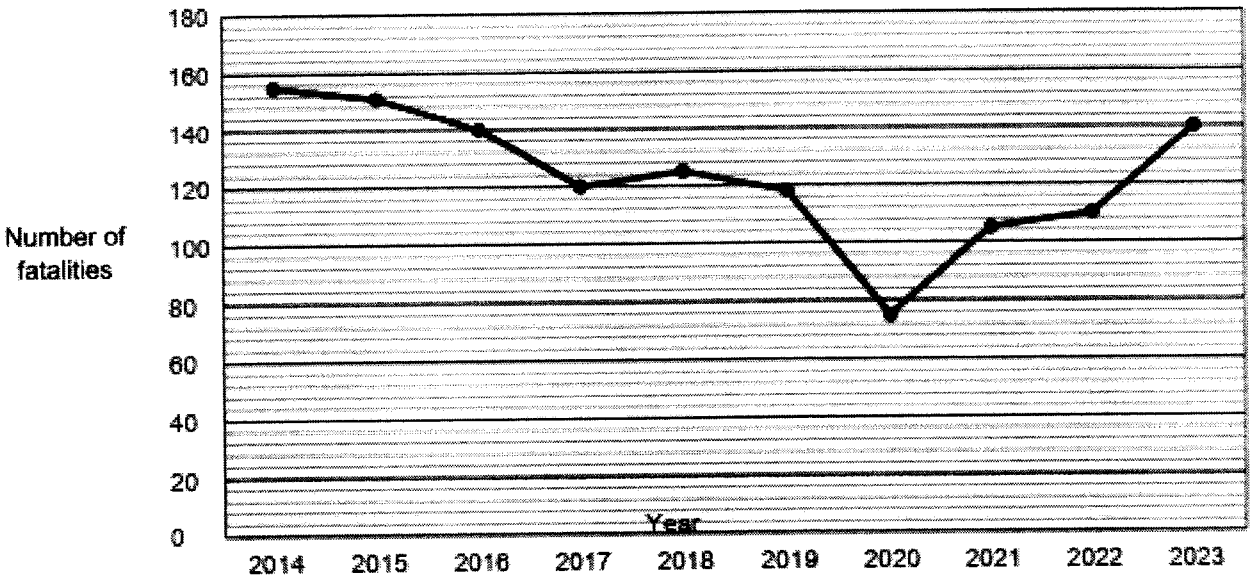
Fig. 1.2A for Question 1

Number of people injured in traffic accidents in Singapore



1.2B for Question 1

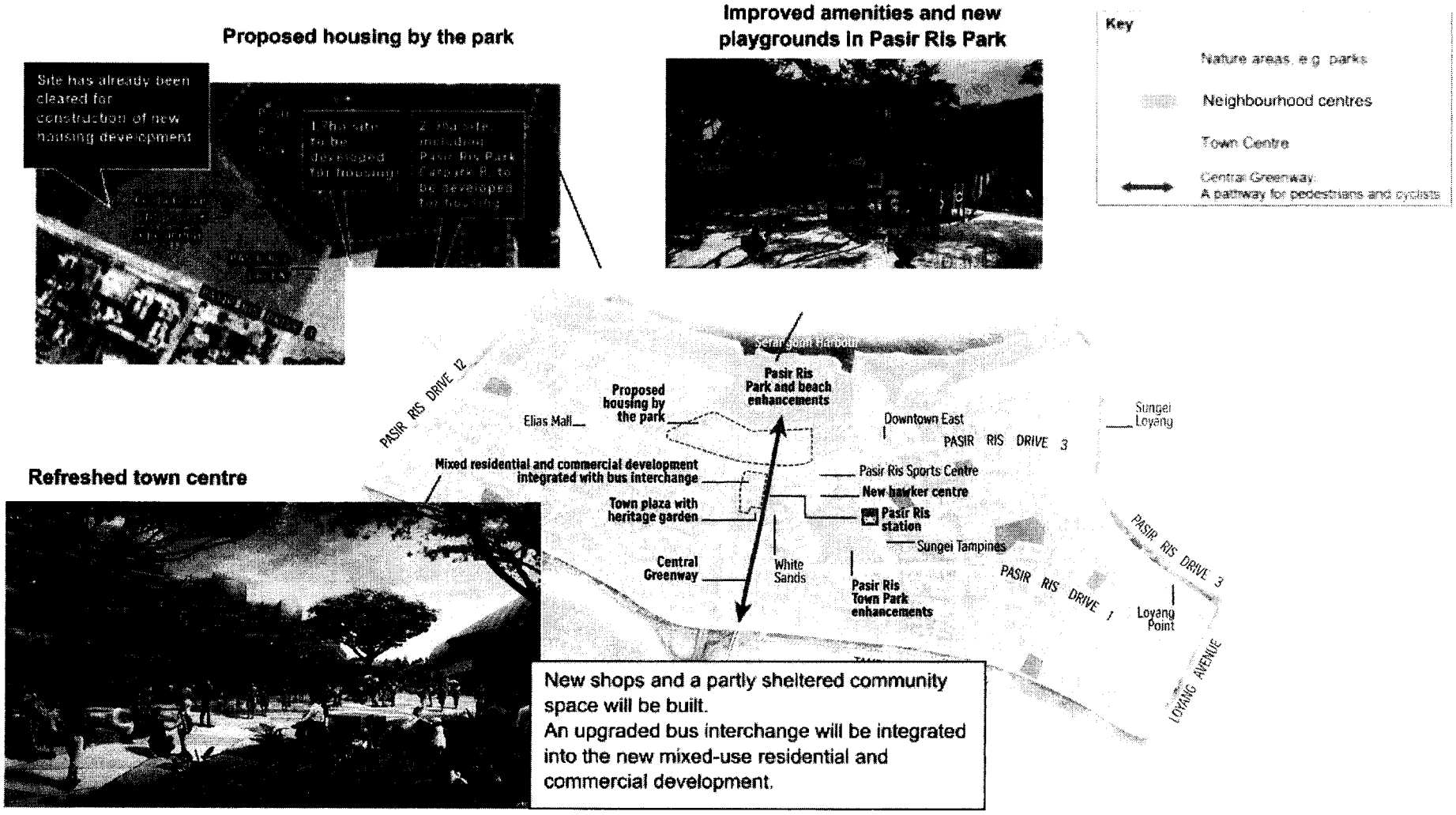
Number of fatalities in traffic accidents in Singapore



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Fig. 1.3 for Question 1

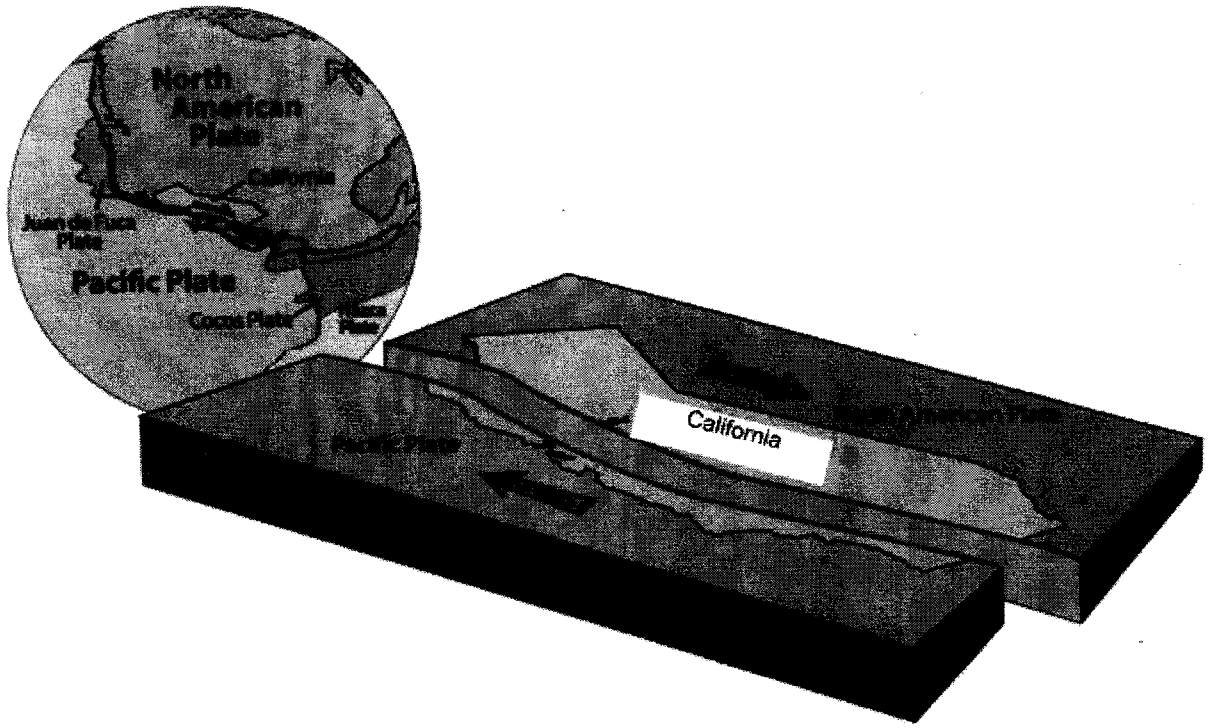
Singapore government's plans to rejuvenate Pasir Ris Town under the Remaking Our Heartlands Programme



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Fig. 2.1 for Question 2

Location of the San Andreas Fault



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Fig. 2.2 for Question 2

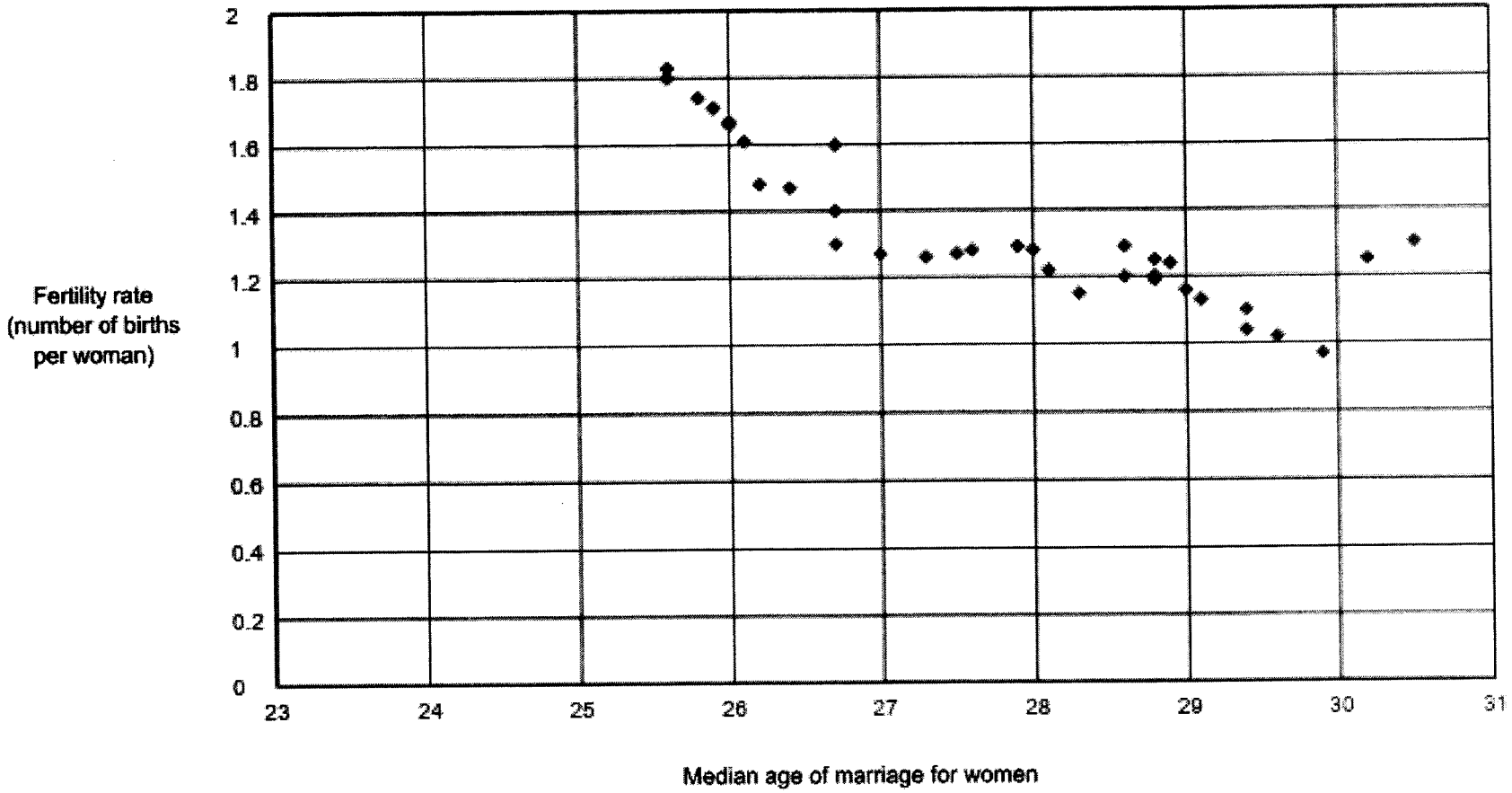
Lava flow from the 2021 eruption of the Cumbre Vieja volcano on La Palma in the Canary Islands



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Fig. 3.1 for Question 3

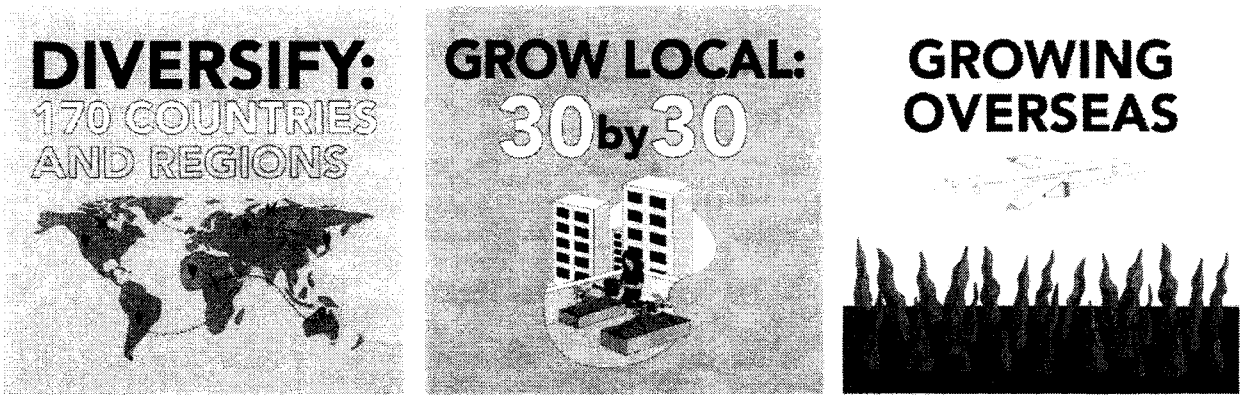
Median age of marriage for women in Singapore and fertility rate from 1990 to 2024



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Fig. 3.2

Strategies to strengthen Singapore's food security



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Fig. 3.3A for Question 3

Dengue fever cases reported across Singapore in 2020

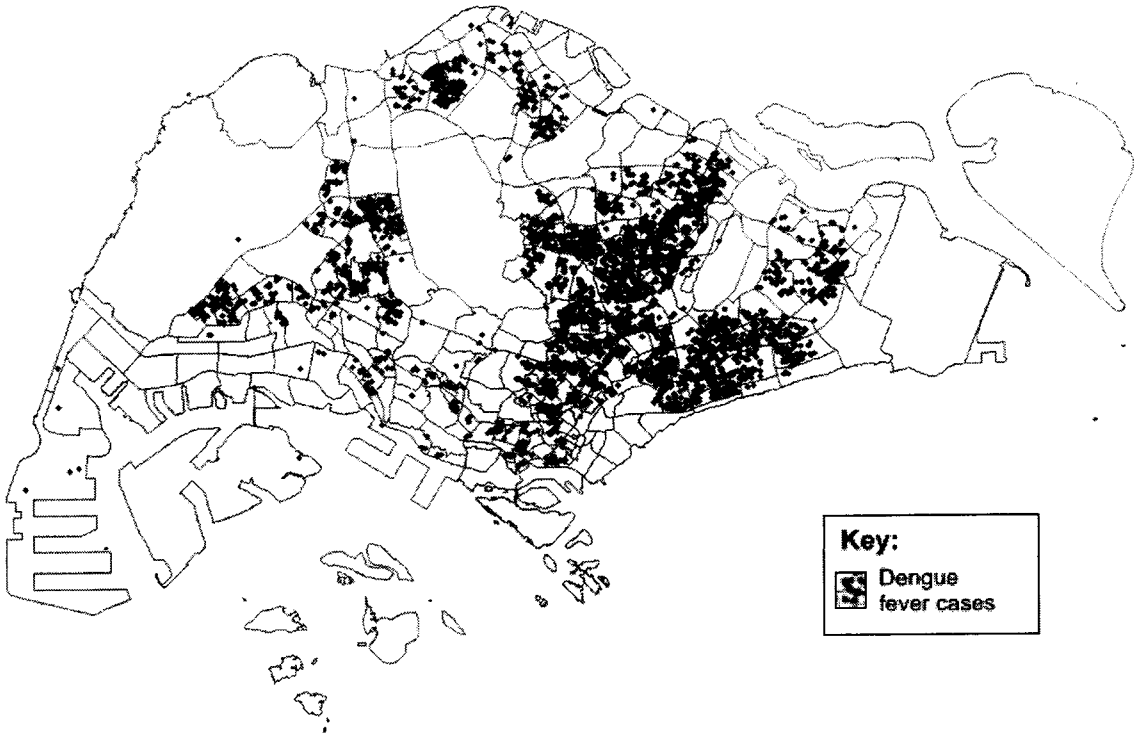


Fig. 3.3B for Question 3

Housing Development Board (HDB) Towns in Singapore



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Fig. 3.4A for Question 3

Reclaimed areas and possible future reclamation areas in Singapore

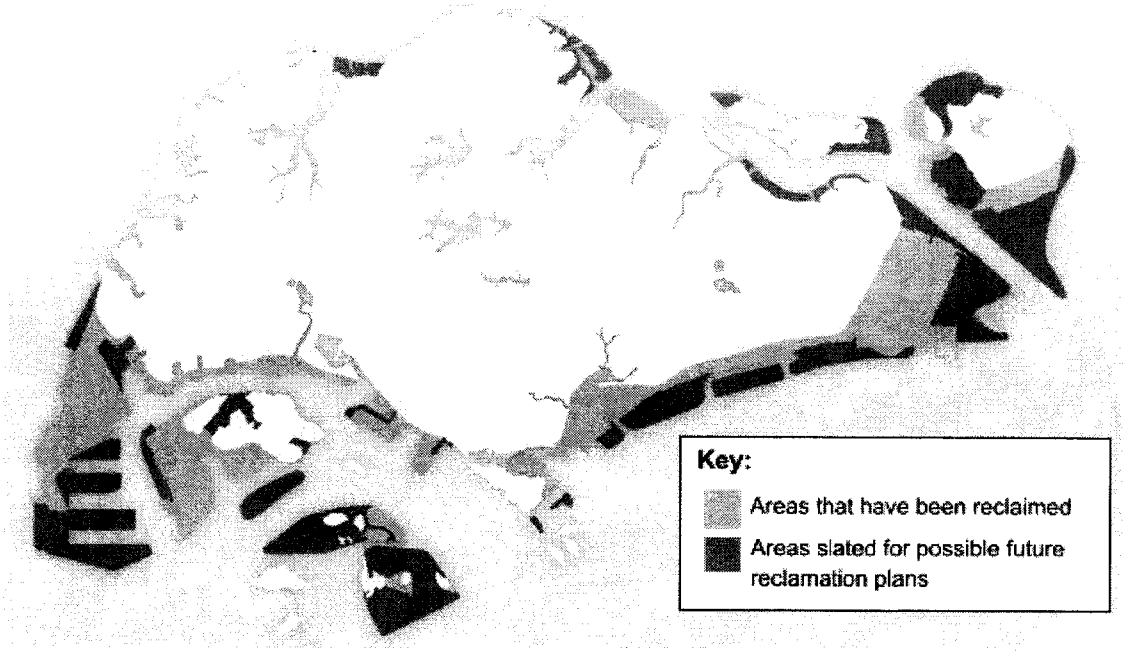
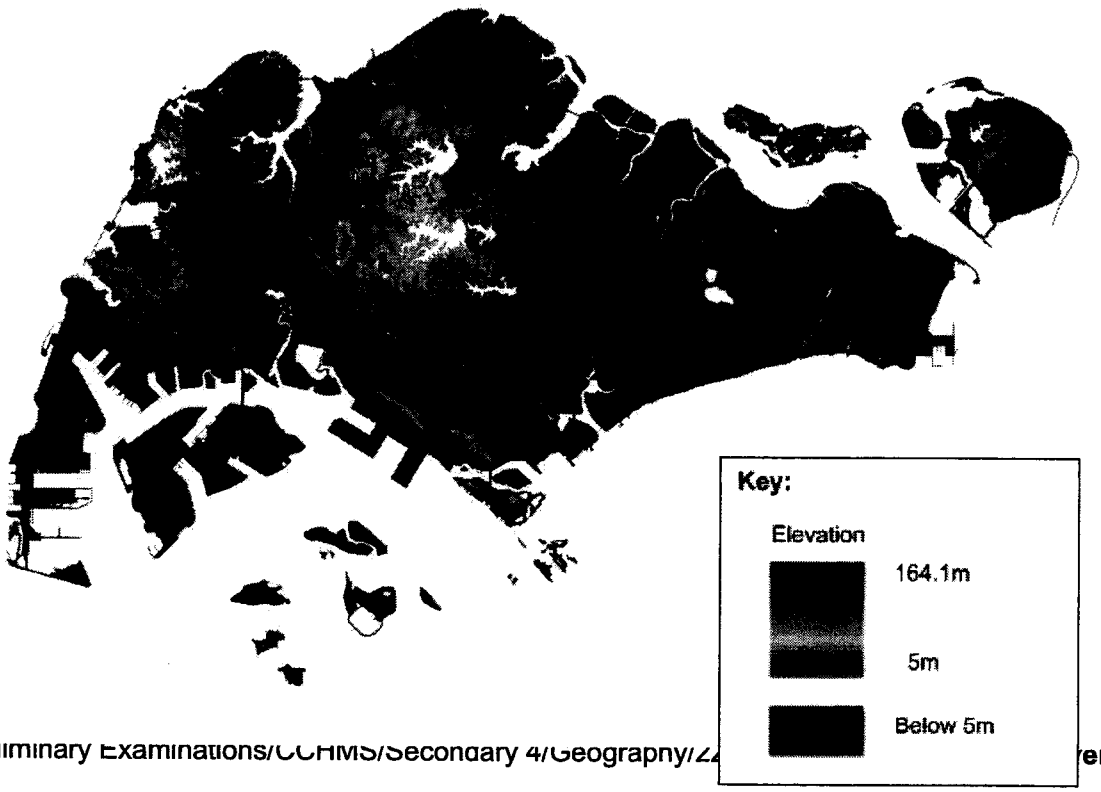


Fig. 3.4B for Question 3

Relief map of Singapore

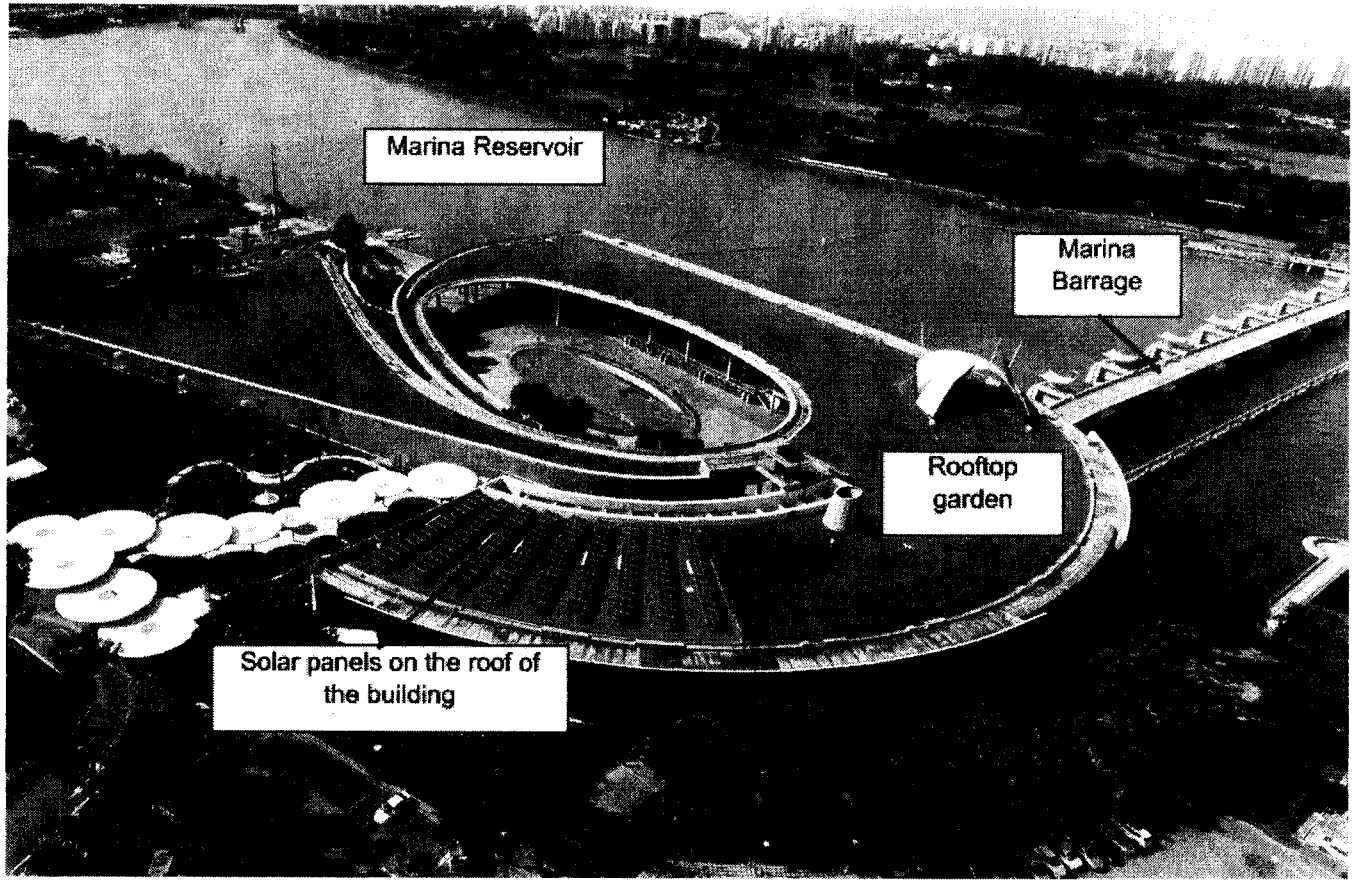


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Fig. 3.5 for Question 3

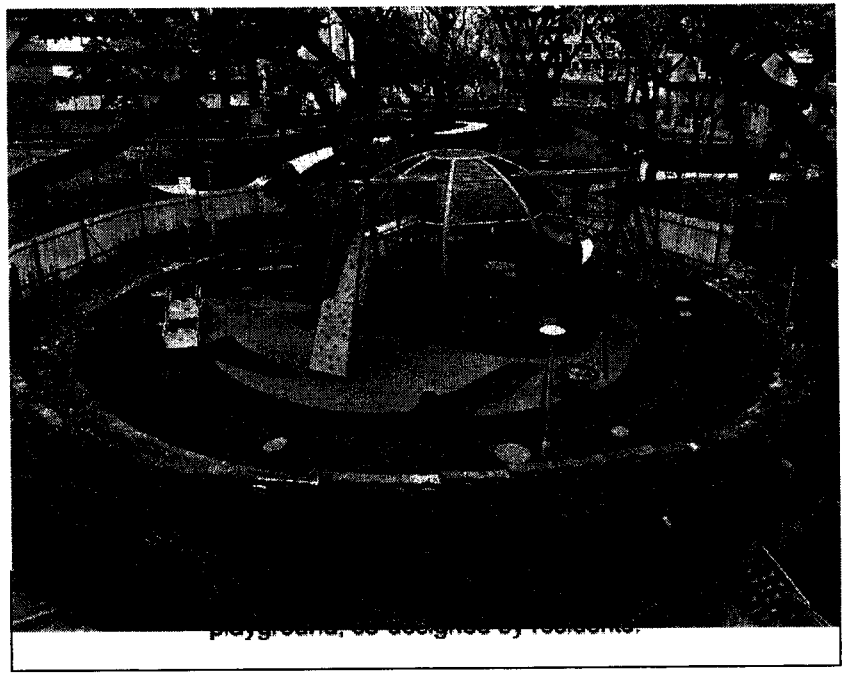
Aerial view of the Marina Bay area



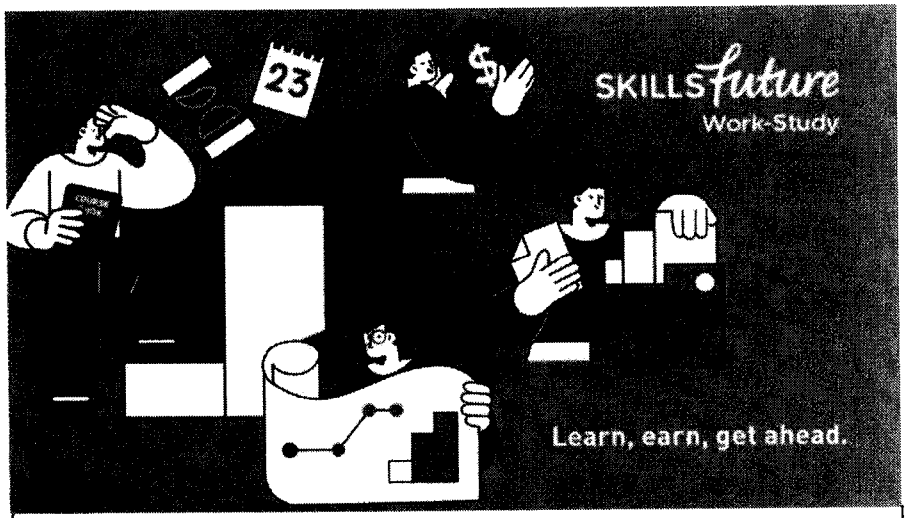
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Fig. 3.6 for Question 3

Measures that Singapore has implemented to strengthen social resilience



playground, co-designed by residents.



A poster about the Skills Future Work-Study Programme

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Question 1	Fig. 1.3	© https://ifonlysingaporeans.blogspot.com/2017/04/toa-payoh-to-get-new-flats-new-parks-in.html
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