Cambridge Assessment International Education

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GEOGRAPHY **0460/41**

Paper 4 Alternative to Coursework **October/November 2023**

INSERT **1 hour 30 minutes**

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INFORMATION

- This insert contains additional resources referred to in the questions.
- You may annotate this insert and use the blank spaces for planning. **Do not write your answers** on the insert.

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Fig. 1.1 for Question 1

Variation in number of international tourists visiting Singapore in 2018

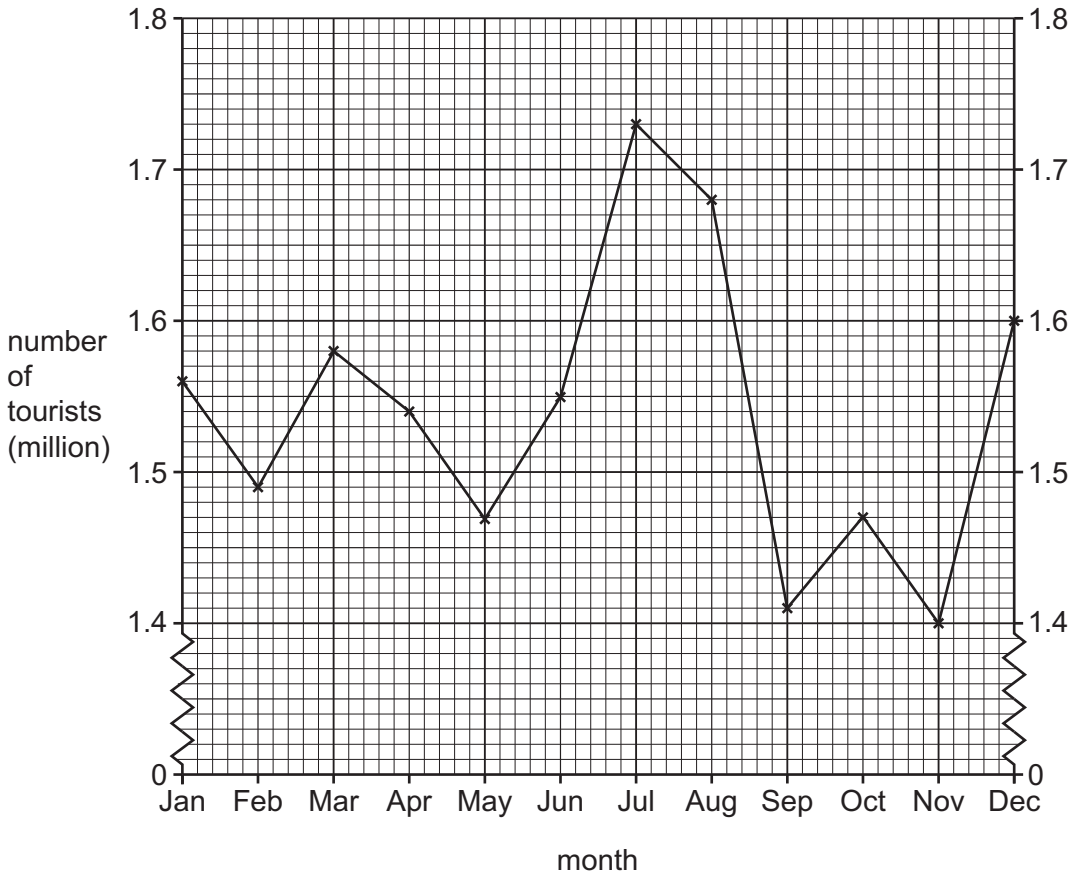
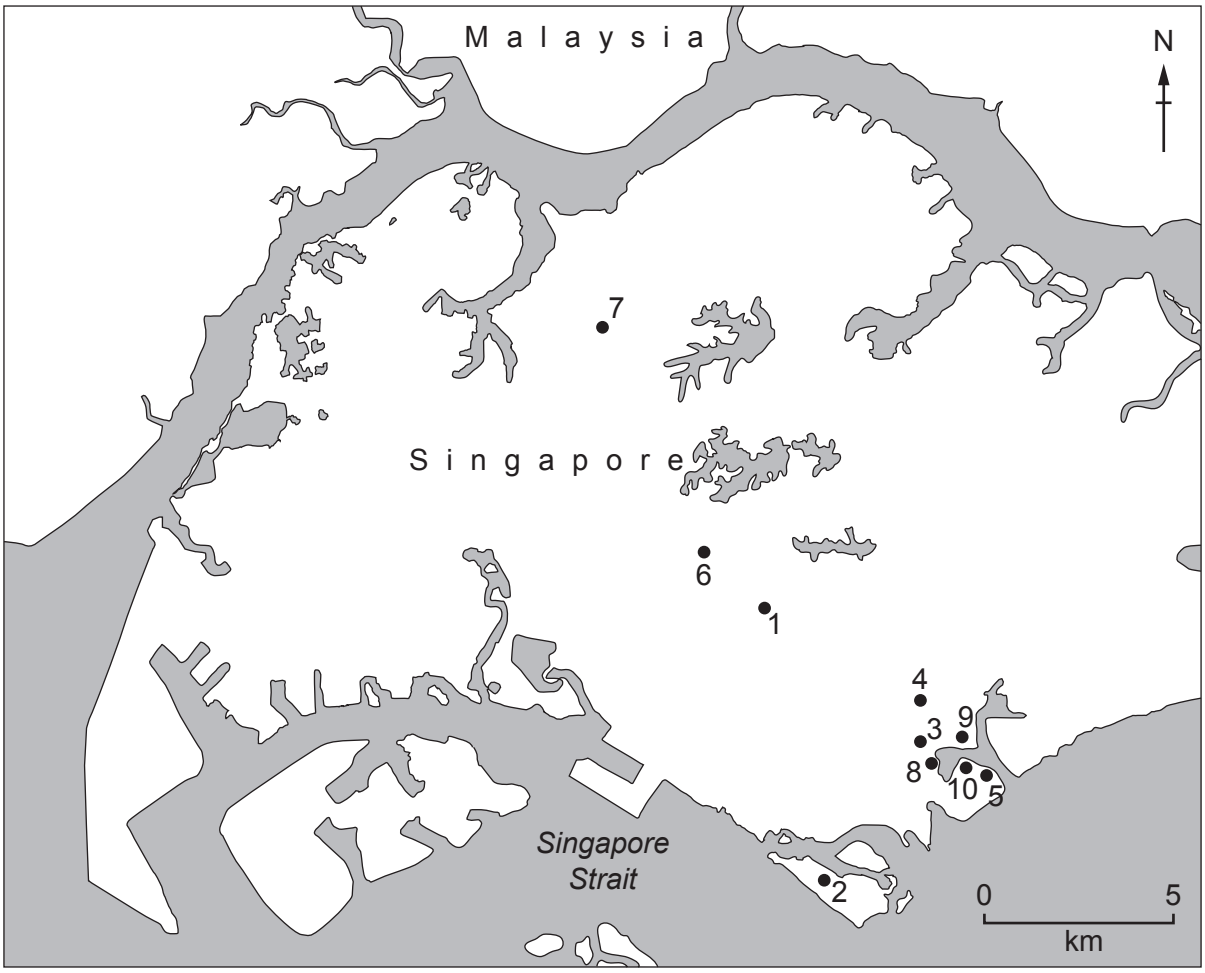


Fig. 1.3 for Question 1

Tourist attractions in Singapore



Key

1. Orchard Road shops and malls
2. Resorts World on Sentosa Island
3. Clarke Quay on the Singapore River
4. Raffles Hotel
5. Gardens by the Bay
6. Botanic Gardens
7. Singapore Zoo and Night Safari
8. Asian Civilisations Museum
9. Singapore Flyer giant Ferris wheel
10. Marina Bay Sands Resort

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Fig. 1.4 for Question 1

Tourist Questionnaire

I am doing a survey of tourists to Singapore for my Geography fieldwork task.
Please can you answer the following questions?

1. Which age group are you in?

☐ under 20 ☐ 20–40 ☐ 41–60 ☐ over 60

2. Which country do you live in? .....

3. Please rank the following attractions to show the five you most like (1–5).

☐ Orchard Road shops and malls
☐ Resorts World on Sentosa Island
☐ Clarke Quay on the Singapore River
☐ Raffles Hotel
☐ Gardens by the Bay
☐ Botanic Gardens
☐ Singapore Zoo and Night Safari
☐ Asian Civilisations Museum
☐ Singapore Flyer giant Ferris wheel
☐ Marina Bay Sands Resort

Thank you for your time.

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Table 1.1 for Question 1

Number of tourists visiting Singapore from different continents

Africa		**N America**		**S America**		**Asia**		**Europe**		**Oceania**	
South Africa	1	USA	4	Brazil	3	China	18	UK	5	Australia	4
		Canada	2	Argentina	1	Indonesia	14	Germany	4	New Zealand	2
		Mexico	1			India	7	France	3		
						Japan	4	Netherlands	2		
						Malaysia	4	Russia	2		
						Philippines	3	Switzerland	2		
						South Korea	3	Ukraine	2		
						Hong Kong	2	Italy	1		
						Thailand	2	Norway	1		
						Vietnam	2	Poland	1		
						Oman	1				
total	1		7		4		**60**		23		6

Table 1.2 for Question 1

Under 20 age group results of Question 3

attraction	number of tourists giving each rank				
	rank 1	rank 2	rank 3	rank 4	rank 5
Orchard Road shops and malls	2	1	4	3	1
Resorts World on Sentosa Island	**10**	**8**	2	0	0
Clarke Quay on the Singapore River	0	0	1	1	1
Raffles Hotel	0	0	0	1	1
Gardens by the Bay	1	0	3	5	3
Botanic Gardens	0	0	0	1	2
Singapore Zoo and Night Safari	1	1	2	2	5
Asian Civilisations Museum	0	0	0	0	1
Singapore Flyer giant Ferris wheel	3	2	2	5	5
Marina Bay Sands Resort	3	8	6	2	1

Table 1.4 for Question 1

Total scores given by each age group

attraction	total score for each age group			
	under 20	20–40	41–60	over 60
Orchard Road shops and malls	33	42	11	14
Resorts World on Sentosa Island	88	50	8	9
Clarke Quay on the Singapore River	6	22	30	37
Raffles Hotel	3	29	50	66
Gardens by the Bay	27	30	69	59
Botanic Gardens	4	10	24	46
Singapore Zoo and Night Safari	24	20	53	22
Asian Civilisations Museum	1	3	14	28
Singapore Flyer giant Ferris wheel	44	18	**2**	1
Marina Bay Sands Resort	70	76	**39**	18

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Fig. 2.1 for Question 2

River fieldwork sites

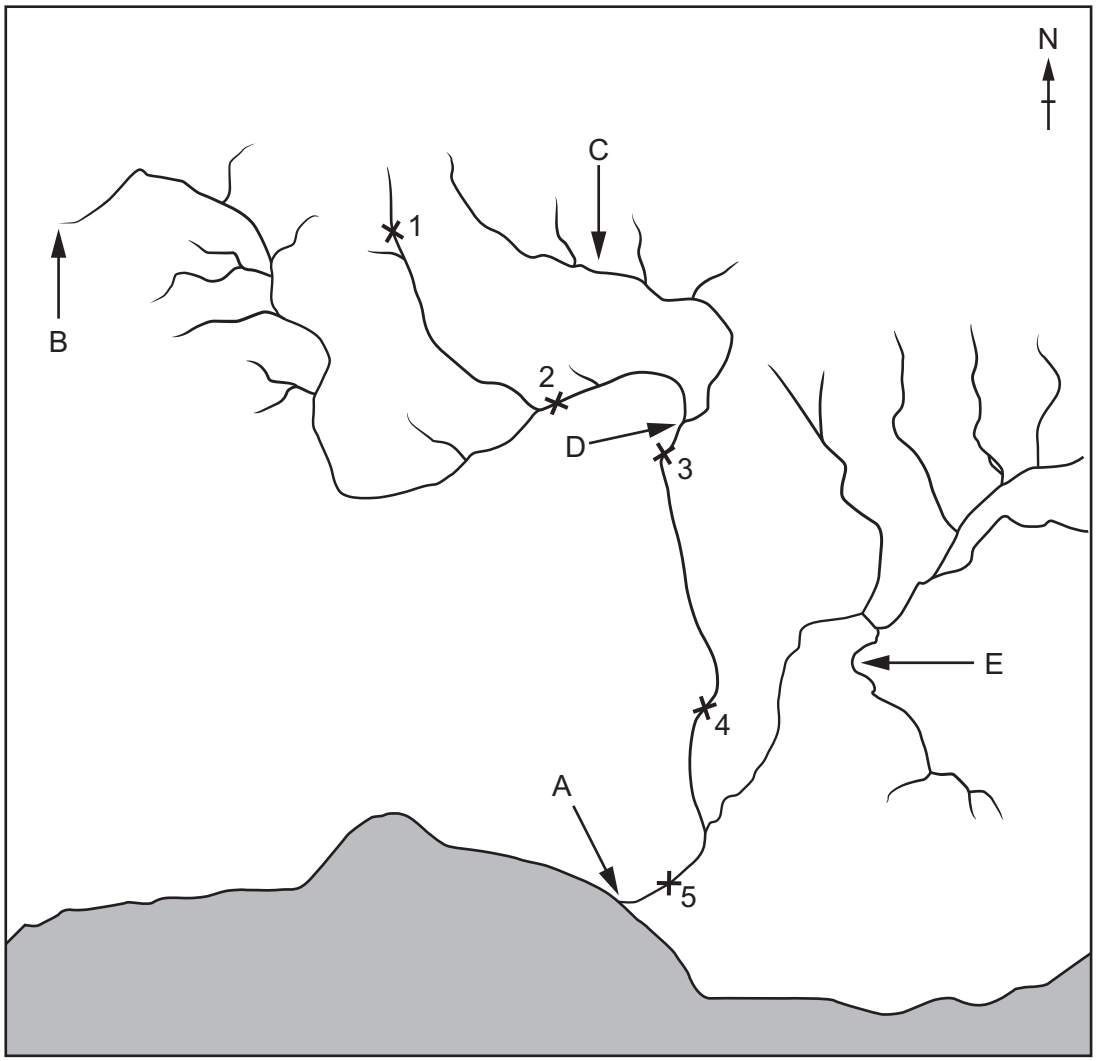


Fig. 2.2 for Question 2

Measuring the river width



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Fig. 2.3 for Question 2

Measuring the river depth



Table 2.2 for Question 2

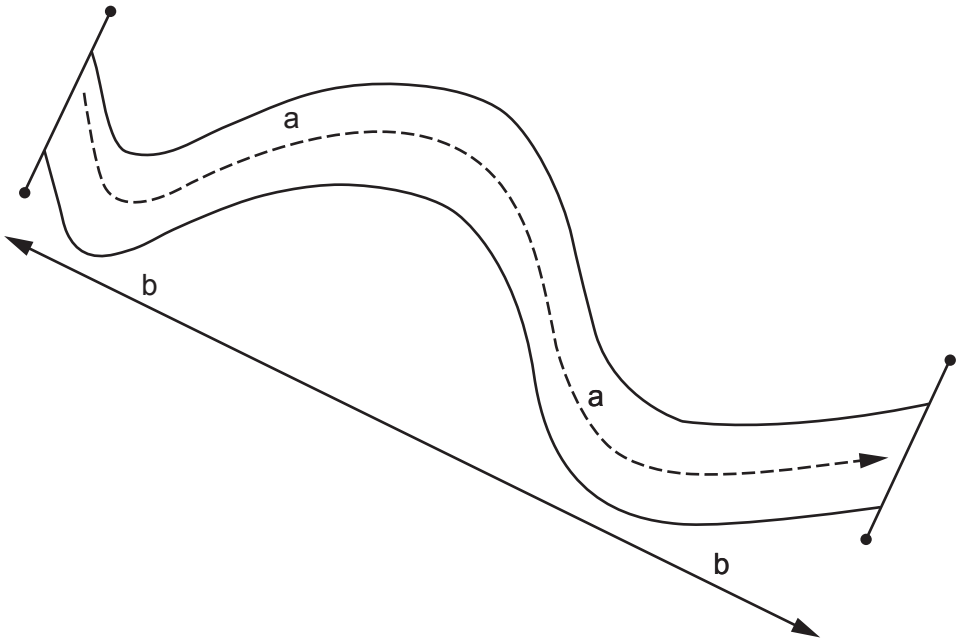
River discharge at the five sites

fieldwork site	discharge (cumecs)
1	0.12
2	0.60
3	1.10
4	**1.40**
5	2.62

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Fig. 2.5 for Question 2

How to calculate sinuosity



Sinuosity = $\frac{a}{b}$

a is the distance measured along the river (m)

b is the straight line distance (m)

Table 2.3 for Question 2

Sinuosity score at the five fieldwork sites

site number		distance measured along river (m)	straight line distance (m)	sinuosity score
1	upstream	118.0	100	1.18
2		116.2	100	1.16
3		137.1	100	1.37
4		129.7	100	**1.30**
5	downstream	162.7	100	1.63

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Fig. 2.7 for Question 2

River meanders



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