



AUSTRALIAN GEOGRAPHY COMPETITION


2023 Year 8 - answers

Instructions

Welcome to the 2023 Australian Geography Competition!

You have 30 minutes to complete 30 questions.

NOTE: Due to the size of some graphics, you may need to scroll down the page to see the complete graphic.



Some questions require the use of a ruler or calculator. To use, click on the icon at the top right of the screen. To turn off, click the icon again.

If you want to enlarge a graphic or text, click on the magnifying glass at the top left of the screen.

There is a timer count-down at the top left of the screen.

The flag button at the bottom right of the screen can be used as a reminder for a question you want to come back to. On the question overview page you can see which questions you flagged.

The tiles button in the top middle of the screen next to the question number takes you to the question overview.

The question overview shows a summary of questions not started, completed or flagged.

Progress summary


Show all 1 Answered 8 Not answered 28 Not read 5 Flagged

Questions



Click a number to go to that question.

0 1 2 3 4 5 6 7 8 9


Supported by



Good luck!

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Question 1 of 30



1985 250

10 km

0:00 / 0:05


Ucayali River, Peru © USGS Landsat

Which geographic concept does the video best illustrate?

- scale
- interconnection
- space
- change

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Question 2 of 30



2005 225

10 km

0:04 / 0:05


Ucayali River, Peru © USGS Landsat

Based on the video, which new landform appears in the Ucayali River?

- alluvial fan
- oxbow lake
- meander
- waterfall

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Question 3 of 30



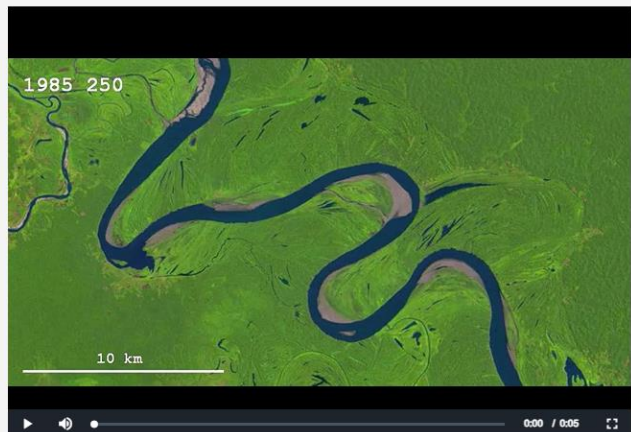
Ucayali River, Peru © USGS Landsat

Based on the video, which geomorphic processes created the new landform? Select all that apply.

- weathering by water
- erosion
- deposition
- weathering by wind

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Question 4 of 30




Ucayali River, Peru © USGS Landsat

The river characteristics shown in the video are typical of:

- a sharp drop in elevation
- the upper reaches of the river
- a V-shaped channel
- a wide flood plain

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Ucayali River, Peru © USGS Landsat

Of which river is the Ucayali River a tributary?


- Amazon
- Mississippi
- Congo
- Mekong

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Question 6 of 30

Drag and drop the correct captions to identify the landforms in the photos below.


Peninsula




Isthmus © Takver, CC BY SA 2.0



Mesa © R Clausen, CC BY SA 4.0



Delta © NASA



Inselberg © C Leopold, CC BY SA 2.0

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The Uluru-Kata Tjuta National Park met several of the criteria for World Heritage Listing. Drag and drop the criteria to best align with the descriptions they meet.

Description of Uluru and Kata Tjuta

The cultural landscape is a living reflection of Anangu traditional hunting, gathering and other practices.

The cultural landscape is of outstanding significance for the way it is perceived as the creation of Mala and other ancestral beings.

Uluru and Kata Tjuta have outstanding scenic grandeur, contrasting with each other and the surrounding flat sand plains.

Uluru and Kata Tjuta are examples of tectonic and geomorphic processes, reflecting the age, and relative stability, of the Australian continent.

World Heritage Criteria

Outstanding example of a traditional land-use representative of a culture

Tangibly associated with living traditions, ideas and beliefs

Contains areas of exceptional natural beauty

Outstanding example of major stages of the earth's history



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In the table below, click in the box that correctly identifies the landform as erosional or depositional.


Landform	Erosional	Depositional
stack	<input checked="" type="checkbox"/>	<input type="checkbox"/>
beach	<input type="checkbox"/>	<input checked="" type="checkbox"/>
headland	<input checked="" type="checkbox"/>	<input type="checkbox"/>
spit	<input type="checkbox"/>	<input checked="" type="checkbox"/>
cave	<input checked="" type="checkbox"/>	<input type="checkbox"/>




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  **Question 9 of 30** 

Drag the text boxes into the correct order to show the steps in the formation of fold mountains.




- Over time, sediment accumulates in geosynclines on the seabed.
- The pressure of the sea compacts and cements the sediment into rock.
- Tectonic plates converge, compressing the rock.
- Continued pressure pushes the rocks upwards.

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  **Question 10 of 30** 

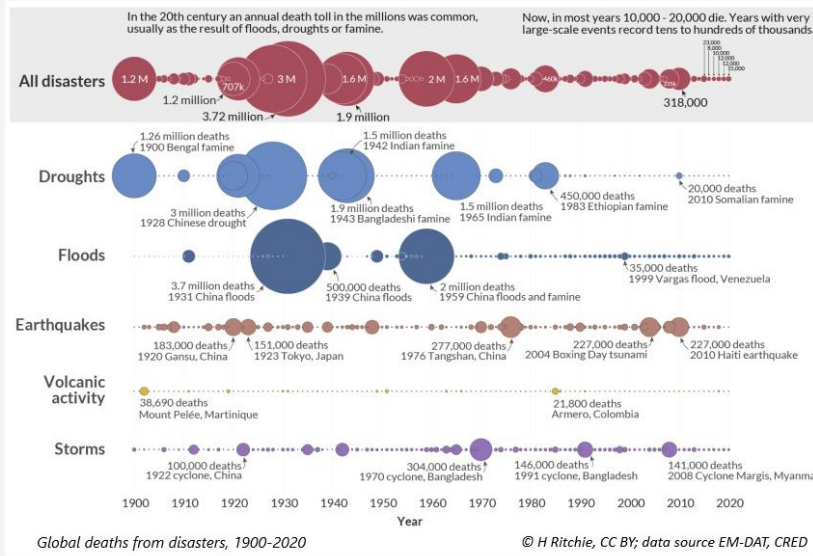
The Ningaloo Coast gets its name from the Yinigudura language meaning 'land jutting into the sea'. What is the English word for this landform?

- peninsula
- stack
- wave cut platform
- cliff

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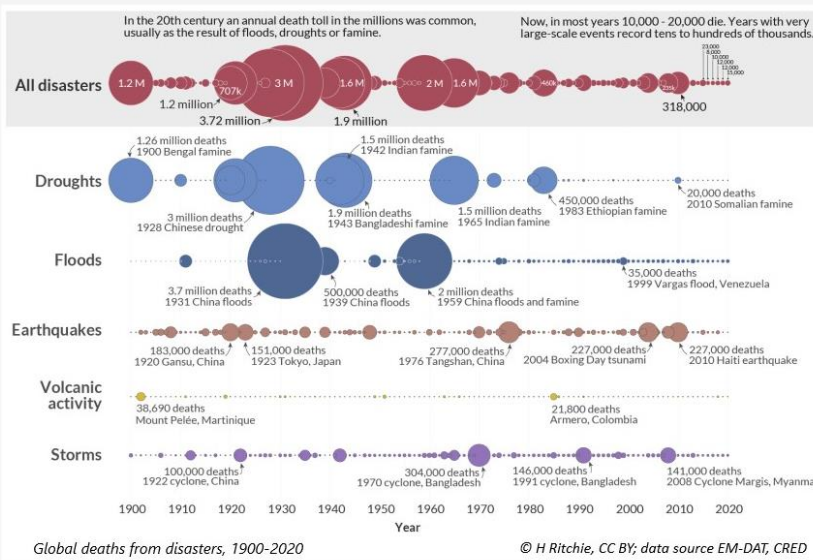
Choose the drop-down word that correctly completes the sentence.

From the graph below, hydrological hazards have been responsible for the greatest number of deaths since 1900.



What is the most likely reason for the change in the number of deaths attributed to droughts since the 1980s?

- humans adapting to climate change
- better water security
- better food security
- fewer droughts due to climate change



Question 15 of 30

Which strategies increase a country's resilience to earthquakes? Select all that apply.

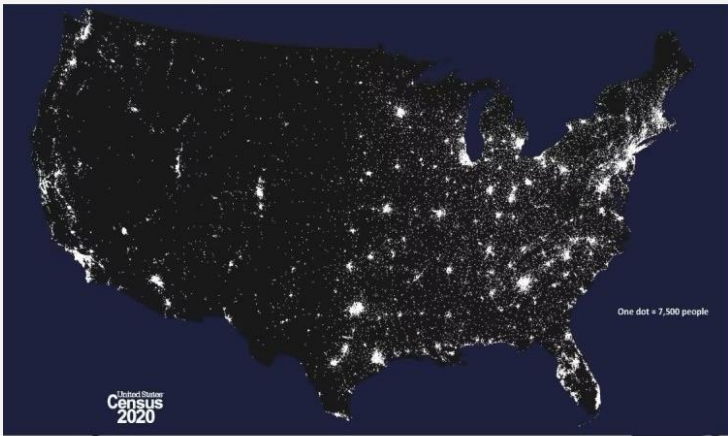
- early warning evacuation technology
- enforcing appropriate building codes
- developing local search and rescue capacity
- public education preparedness programmes

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Question 16 of 30

Based on the map below, what is the spatial pattern of the population distribution in the USA?

clustered random linear



2020 population distribution in the contiguous USA ©US Department of Commerce

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Question 17 of 30

What are some reasons why people choose to move to cities? Select all that apply.

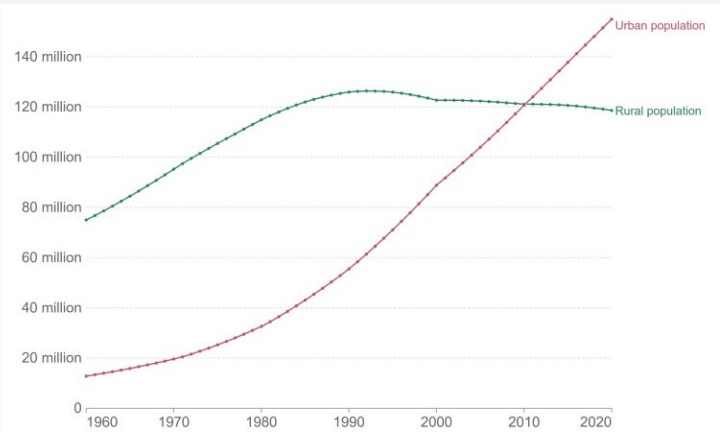
- access to healthcare services
- access to education
- increased job opportunities
- less polluted air
- access to open spaces

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Question 18 of 30

Using the graph below, describe the rate of urban population growth in Indonesia since 1980.

slowly increasing
 slowly decreasing
 rapidly increasing
 rapidly decreasing



Number of people living in urban and rural areas, Indonesia
Source: Our World in Data, CC BY; data UN Population Division via World Bank

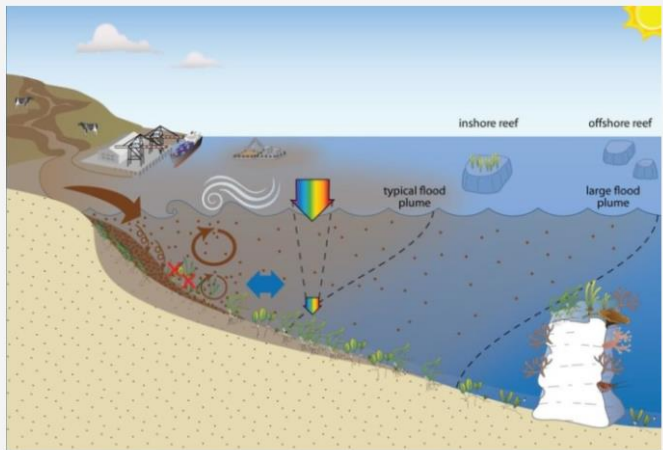
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Classify the statements as either a cause or consequence of the growth of Jakarta, Indonesia. Click on the box in the correct column.

Statement	Cause	Consequence
Traffic congestion in Jakarta creates long commutes for residents.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jakarta is the centre of government.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Increased drilling for home wells to access groundwater is causing subsidence.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Air pollution is routinely higher than WHO air quality guidelines.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Traditional farming practices do not provide enough income for families.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Question 20 of 30



Legend
 Sediment delivery, Sedimentation, Seagrass burial, Resuspension, Wind mixing, Offshore transfer, Light attenuation, Seagrass loss
 Processes affecting turbidity in the coastal zone of the Great Barrier Reef © State of Queensland, CC BY

Based on the diagram, number the sequence of events outlining the impacts of agricultural practises on the adjacent marine environment from 1 to 4.

- | Event | Order |
|--------------------------------------------------------------------------------------------------------------|--------------------------------|
| Paddocks are compacted, creating a higher volume of run-off into rivers, and then sea. | <input type="text" value="1"/> |
| Algae covers the reef due to lack of marine herbivores. | <input type="text" value="4"/> |
| Large marine herbivores migrate away in search of more plentiful food sources. | <input type="text" value="3"/> |
| Run-off contains nutrients, which causes algal blooms in the sea, blocking sunlight from coral and seagrass. | <input type="text" value="2"/> |

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Choose the drop-down text that correctly completes the sentence.

The negative impacts of agriculture on the adjacent marine environment are more likely to occur in the wet season.

The diagram illustrates the coastal zone of the Great Barrier Reef, showing the transition from a river mouth to an inshore reef and then to an offshore reef. It depicts various processes affecting turbidity, such as sediment delivery from the land, wind mixing in the water column, and the formation of typical and large flood plumes. A legend identifies symbols for sediment delivery, sedimentation, seagrass burial, resuspension, wind mixing, offshore transfer, light attenuation, and seagrass loss. The caption reads: "Processes affecting turbidity in the coastal zone of the Great Barrier Reef © State of Queensland, CC BY".

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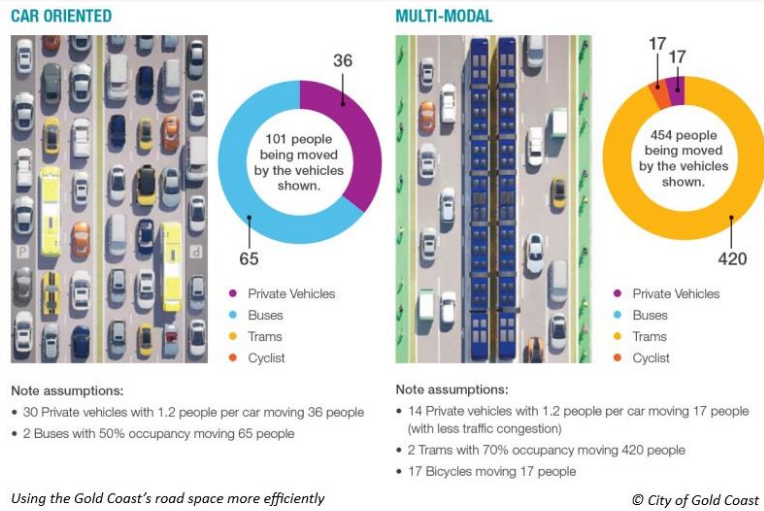
Which actions would it be reasonable for a farmer to implement to mitigate the impacts on the adjacent marine environment? Select all that apply.

- reduce erosion by revegetating hillsides
- grow organically to remove pesticides and artificial fertiliser from the soil
- relocate livestock further away from waterways
- create sandy embankments in the river to filter out excess sediment

This diagram is identical to the one in Question 21, showing the coastal zone of the Great Barrier Reef and the processes affecting turbidity. The caption reads: "Processes affecting turbidity in the coastal zone of the Great Barrier Reef © State of Queensland, CC BY".

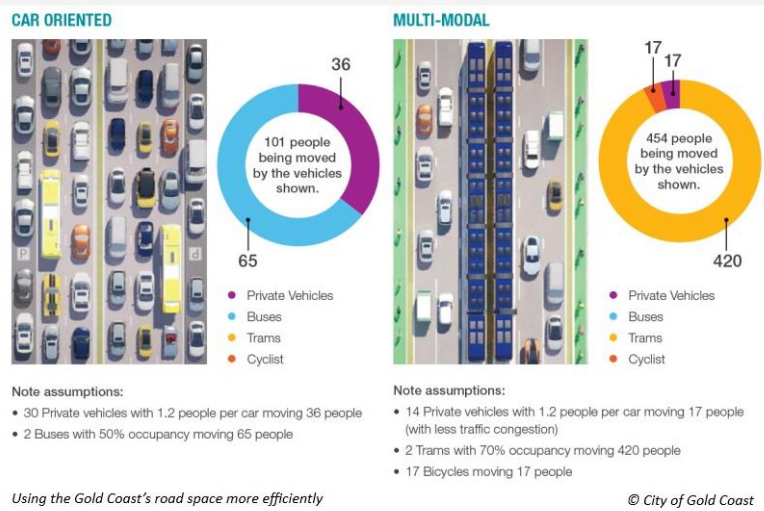
Based on the image below, in which ways can multi-modal transport improve liveability? Select all that apply.

- reduces traffic congestion
- reduces carbon emissions
- reduces destination choice
- improves social connections



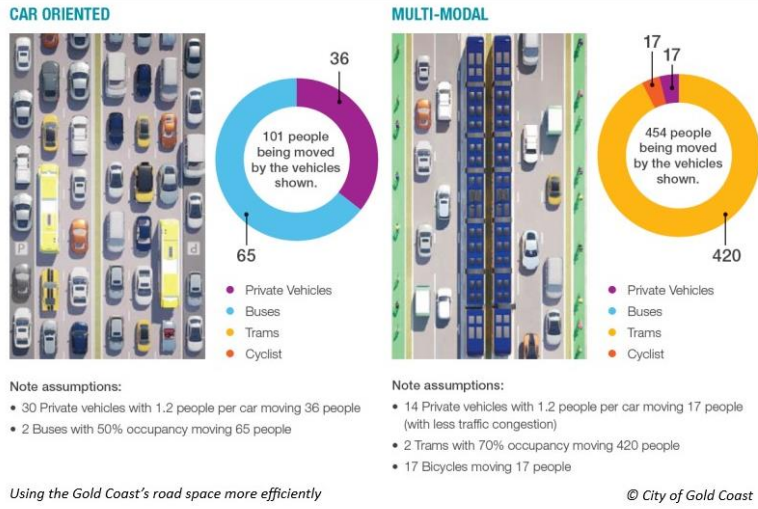
Choose the drop-down text that correctly completes the sentence. You can estimate the number or use the calculator by clicking on the symbol in the top right corner.

Using the car-oriented information below, with average occupancies, a bus moves approximately 27 times as many people as a car.



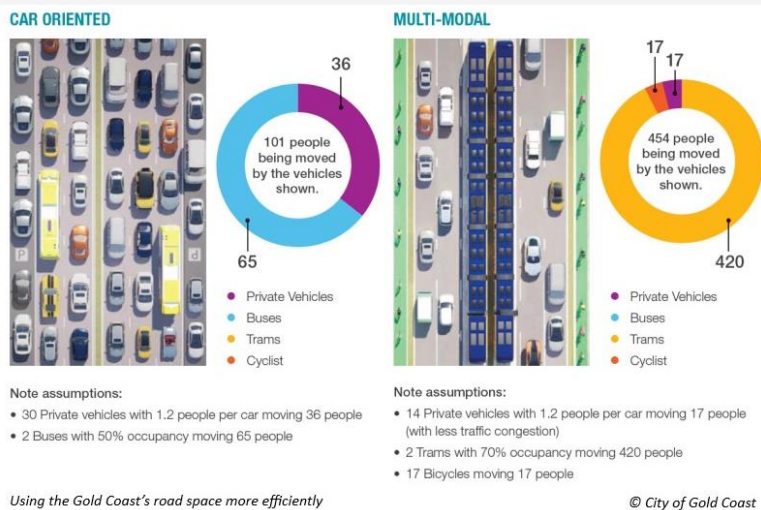
What is the best explanation why buses are shown as having a lower occupancy rate than trams in the image below?

- Trams only travel on popular routes.
- More people can travel on trams.
- Trams emit fewer greenhouse gases.
- Buses are very noisy.



Which of these would be a negative consequence of shifting to the multi-modal transport model shown in the image below?

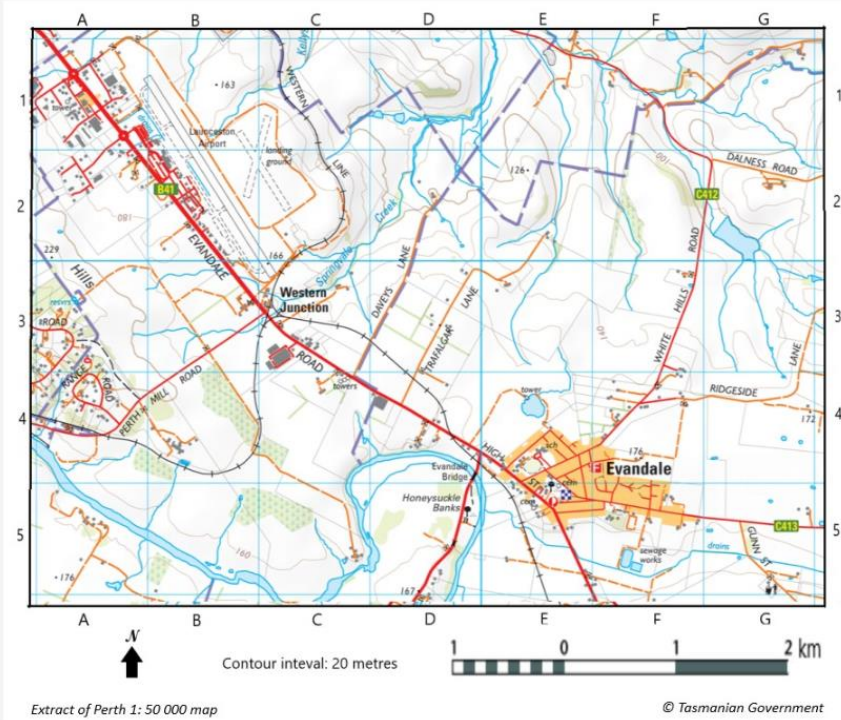
- Lack of parking reduces trade in local businesses.
- Active transport methods are discouraged.
- Commuters spend less time travelling to work.
- Private car ownership becomes more expensive.



Question 27 of 30

Remember to scroll down if you can't see all of the map.
 The map below is an extract. Which element is missing that a complete map should have?

- legend
 orientation
 scale
 title



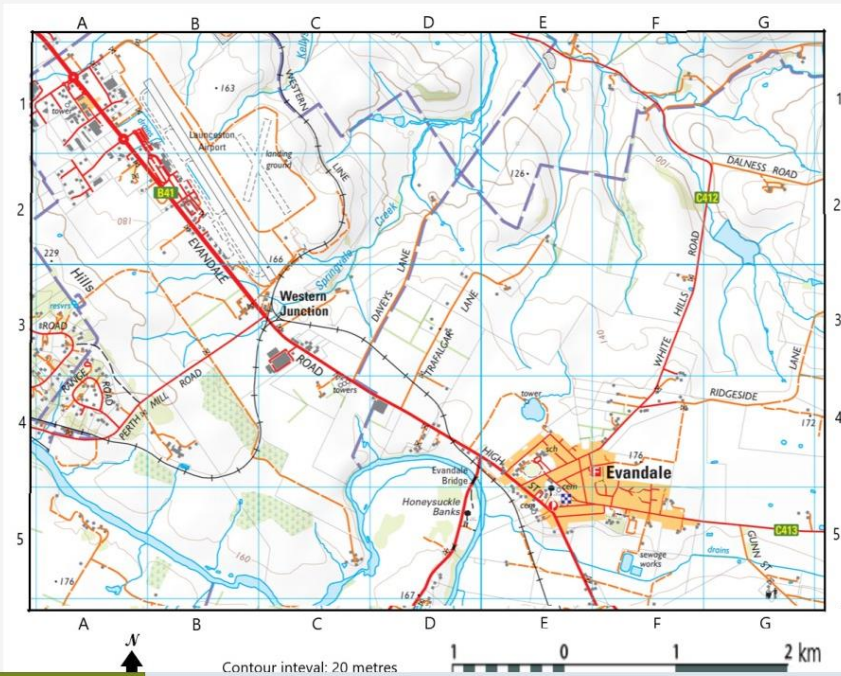
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Using the map, in approximately which direction would you be driving to go from Evandale to Western Junction?

- WNW
 SSE
 NNW
 ESE



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