



AUSTRALIAN GEOGRAPHY COMPETITION


2023 Year 8

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 6 Flagged

Questions



Click a number to go to that question.

0 1 2 3 4 5 6 7 8 9

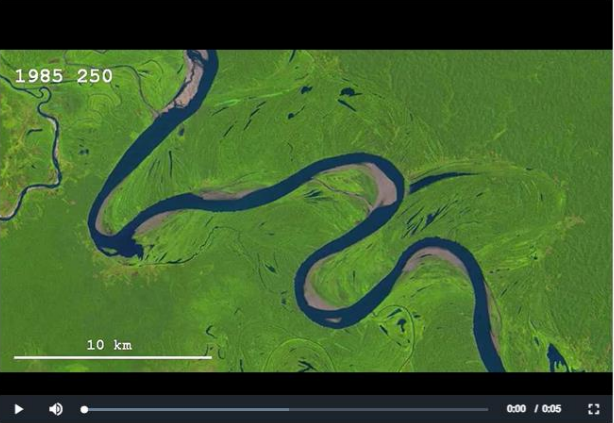
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Good luck!

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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
- change
- interconnection
- space

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Question 2 of 30



2005 225

10 km

0:00 / 0:05

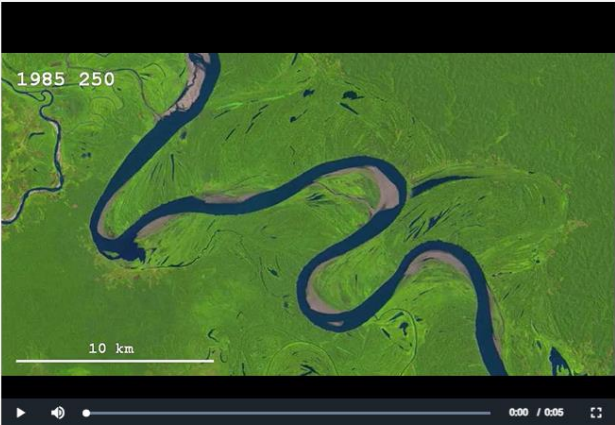
Ucayali River, Peru © USGS Landsat

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

- alluvial fan
- waterfall
- oxbow lake
- meander

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1985 250

10 km

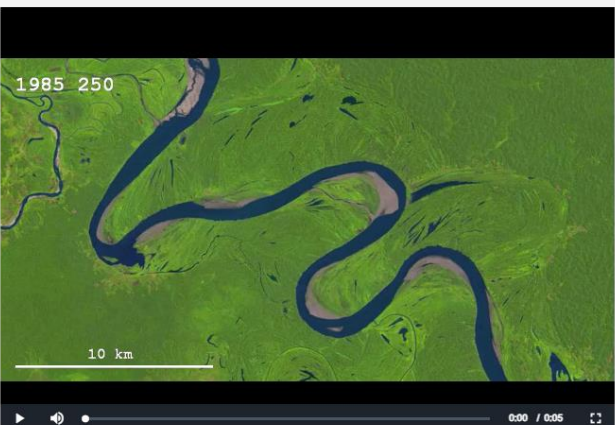
Ucayali River, Peru © USGS Landsat

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

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

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1985 250

10 km


Ucayali River, Peru © USGS Landsat

The river characteristics shown in the video are typical of:

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

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2003 268

10 km

© USGS Landsat

Of which river is the Ucayali River a tributary?

- Congo
- Amazon
- Mekong
- Mississippi

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Question 6 of 30

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


Delta

Inselberg


Isthmus

Mesa


Peninsula




© Takver, CC BY SA 2.0



© R Clausen, CC BY SA 4.0



© NASA



© 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.

Contains areas of exceptional natural beauty

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

Outstanding example of major stages of the earth's history

Tangibly associated with living traditions, ideas and beliefs

Description of Uluru and Kata Tjuta	World Heritage Criteria
The cultural landscape is a living reflection of Anangu traditional hunting, gathering and other practices.	<input type="checkbox"/>
The cultural landscape is of outstanding significance for the way it is perceived as the creation of Mala and other ancestral beings.	<input type="checkbox"/>
Uluru and Kata Tjuta have outstanding scenic grandeur, contrasting with each other and the surrounding flat sand plains.	<input type="checkbox"/>
Uluru and Kata Tjuta are examples of tectonic and geomorphic processes, reflecting the age, and relative stability, of the Australian continent.	<input type="checkbox"/>

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

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

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

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

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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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Drag and drop the term into the table to classify Ningaloo's values.

		Aesthetic	Cultural	Economic	Spiritual
Ningaloo Values	Type				
In 2018-19, the Ningaloo region contributed an estimated \$110 million to the WA economy and supported 1,053 jobs.					
In 2022, celebrated Australian author Tim Winton co-wrote and narrated a documentary exploring Ningaloo Reef.					
There are numerous Aboriginal heritage sites registered within the Ningaloo region, including artefact scatters, burial sites, meeting places and hunting places.					
One reason the Ningaloo Coast was added to the World Heritage List in 2011 was under the Outstanding Universal Value criteria of containing areas of exceptional natural beauty.					

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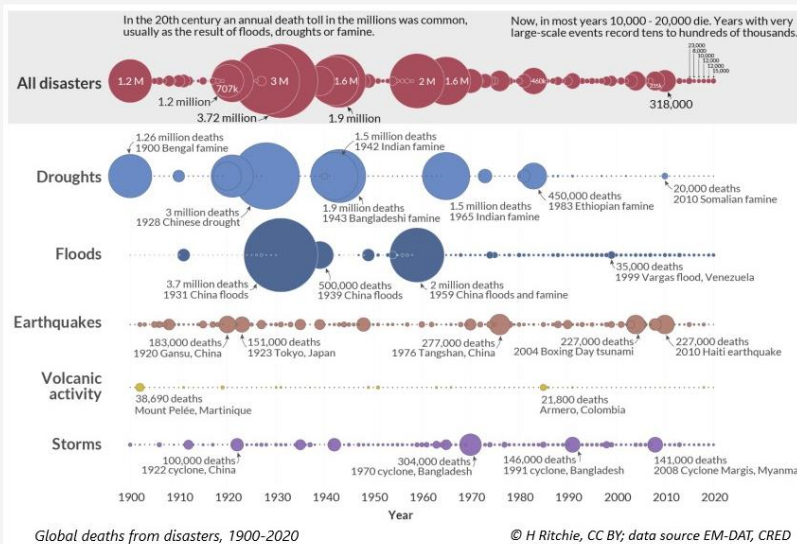


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Using the graph below, the largest number of deaths from natural disasters occurred during which time period?

- 1900 - 1920
 1920 - 1940
 1940 - 1960
 1960 - 1980



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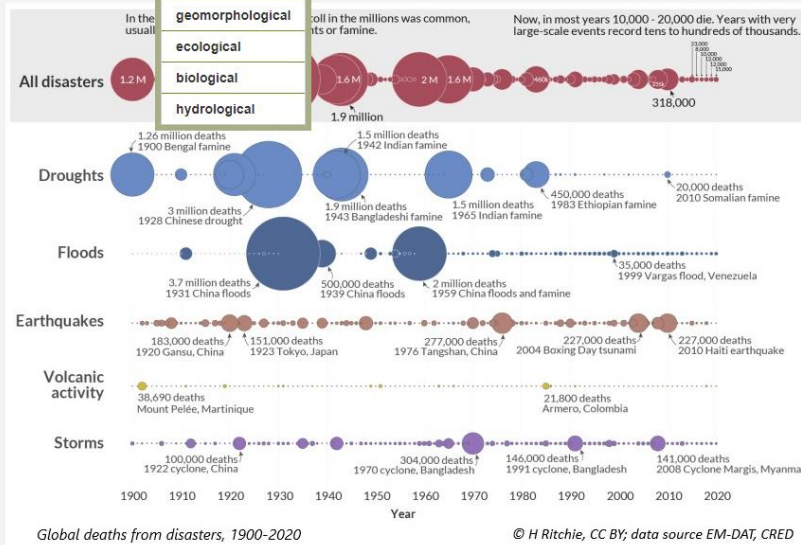
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Choose the drop-down word that correctly completes the sentence.

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



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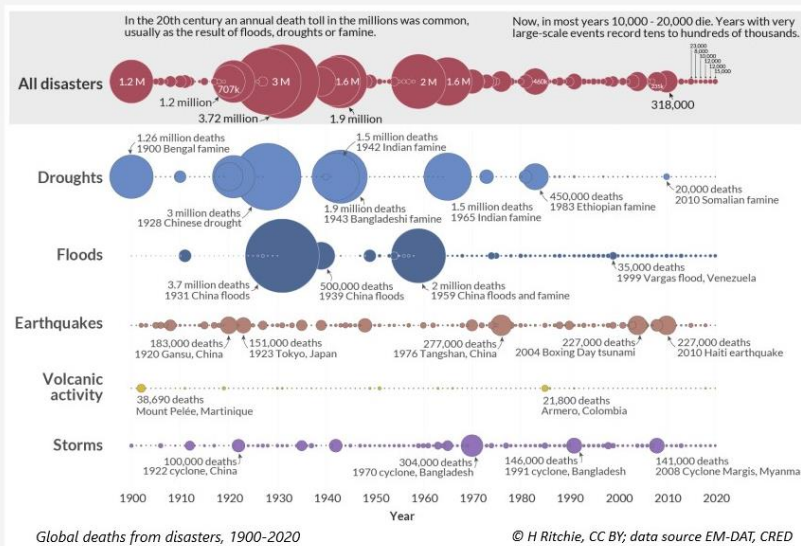
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What is the most likely reason for the change in the number of deaths attributed to droughts since the 1980s?

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



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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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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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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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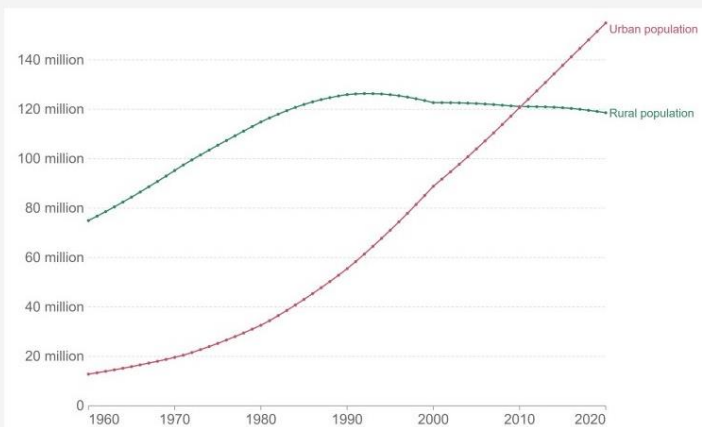


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Using the graph below, describe the rate of urban population growth in Indonesia since 1980.

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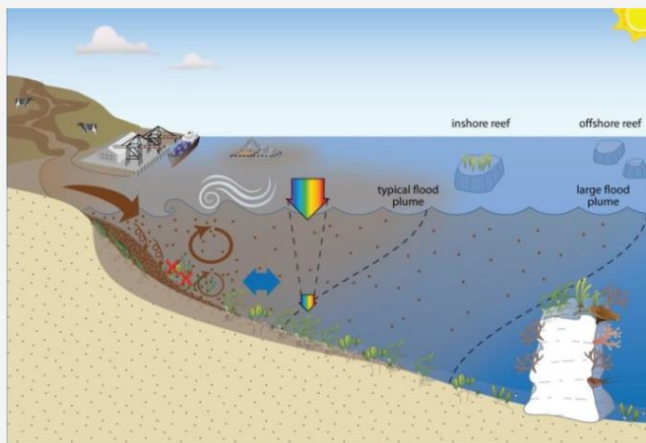
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Classify the statements as either a cause or consequence of the growth of Jakarta, Indonesia. Click on the box in the correct column.

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

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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="checkbox"/>
Algae covers the reef due to lack of marine herbivores.	<input type="checkbox"/>
Large marine herbivores migrate away in search of more plentiful food sources.	<input type="checkbox"/>
Run-off contains nutrients, which causes algal blooms in the sea, blocking sunlight from coral and seagrass.	<input type="checkbox"/>

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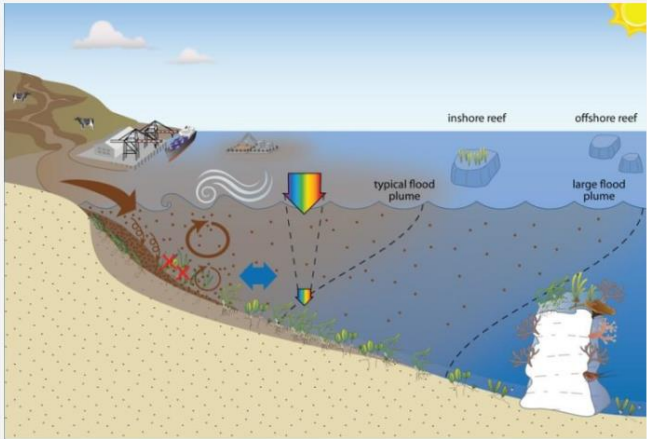
Choose the drop-down text that correctly completes the sentence.

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

▲

wet

dry



Legend

- Sediment delivery
- Sedimentation
- Seagrass burial
- Resuspension
- Wind mixing
- Offshore transfer
- Light attenuation
- Seagrass loss

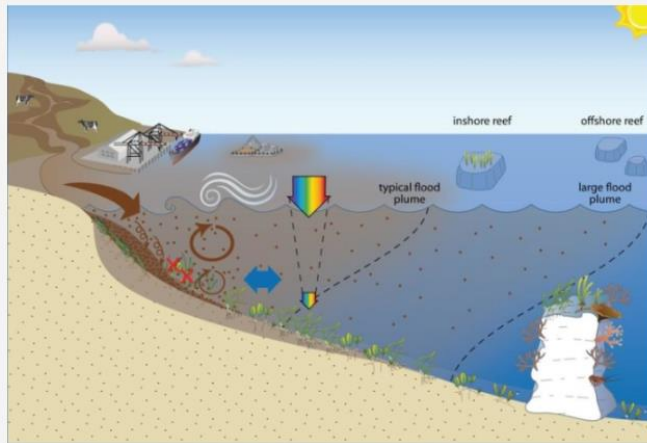
Processes affecting turbidity in the coastal zone of the Great Barrier Reef © State of Queensland, CC BY

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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



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

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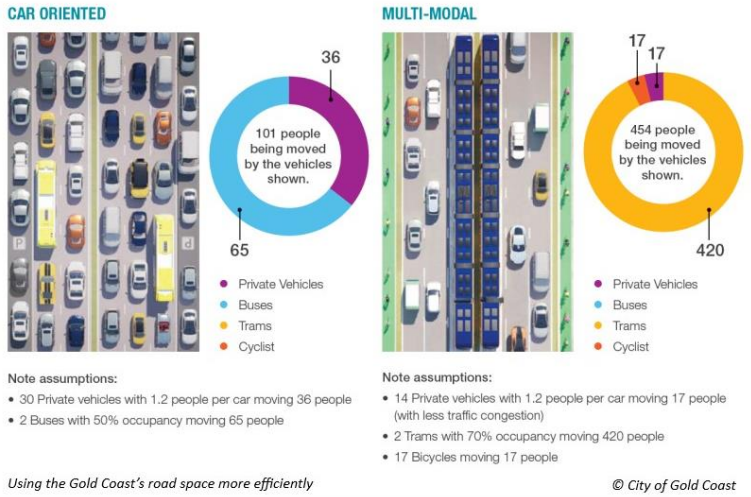


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Based on the image below, in which ways can multi-modal transport improve liveability? Select all that apply.

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



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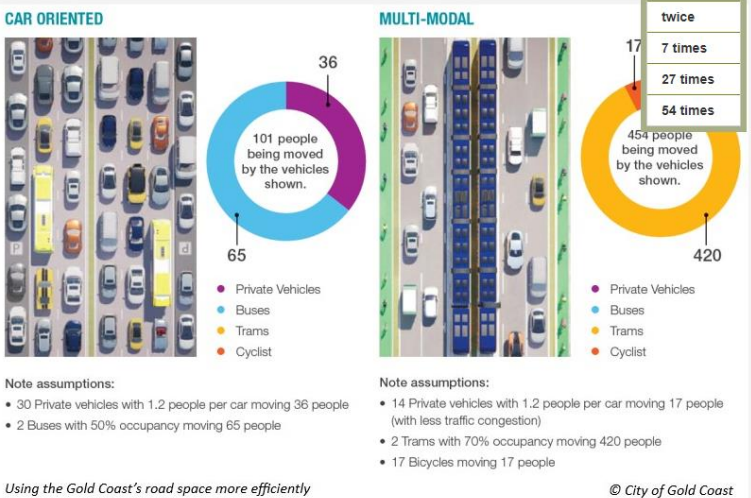


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Choose the drop-down text that correctly completes the sentence. You can estimate the number or use the calculator by clicking on the symbol in the top right corner.

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



twice

7 times

27 times

54 times

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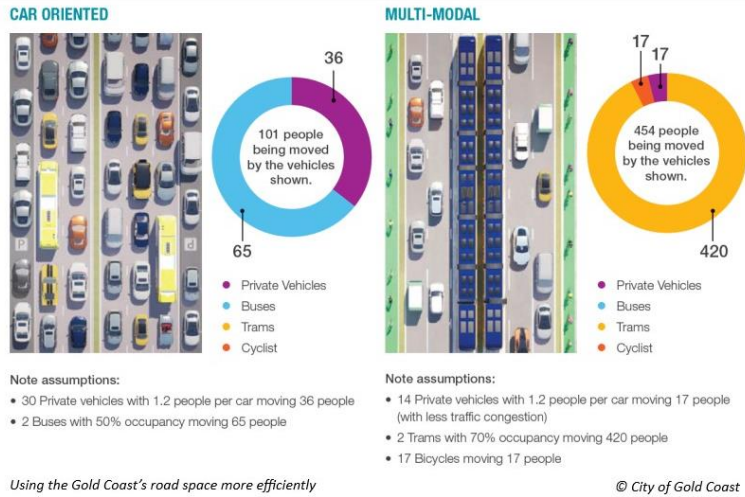


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What is the best explanation why buses are shown as having a lower occupancy rate than trams in the image below?

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



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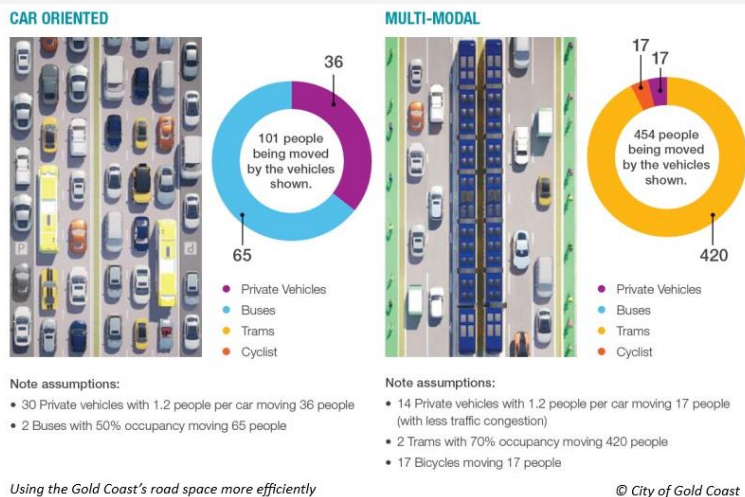


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Which of these would be a negative consequence of shifting to the multi-modal transport model shown in the image below?

- 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.



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Remember to scroll down if you can't see all of the map.

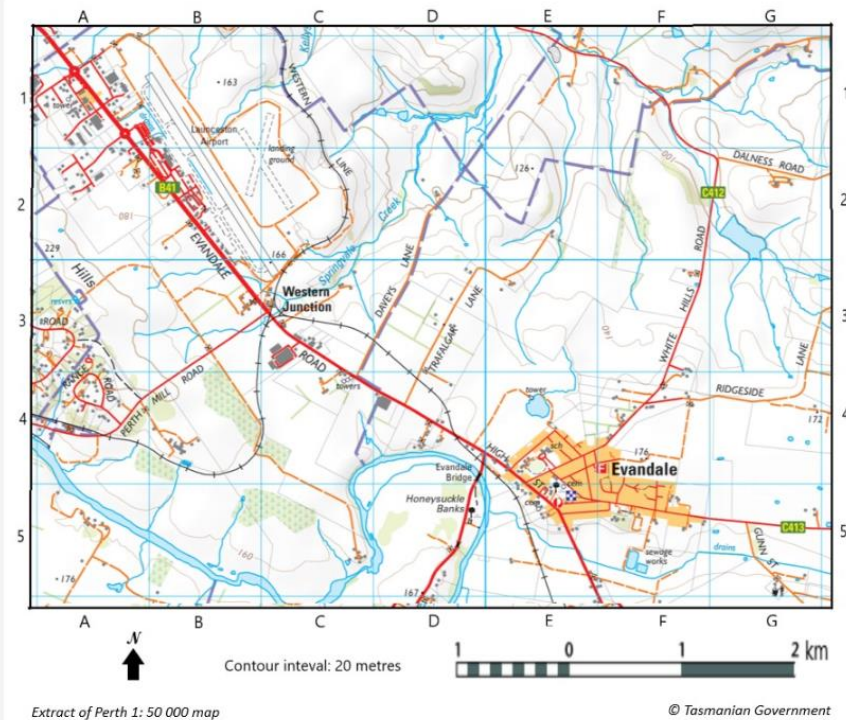
The map below is an extract. Which element is missing that a complete map should have?

legend

orientation

scale

title



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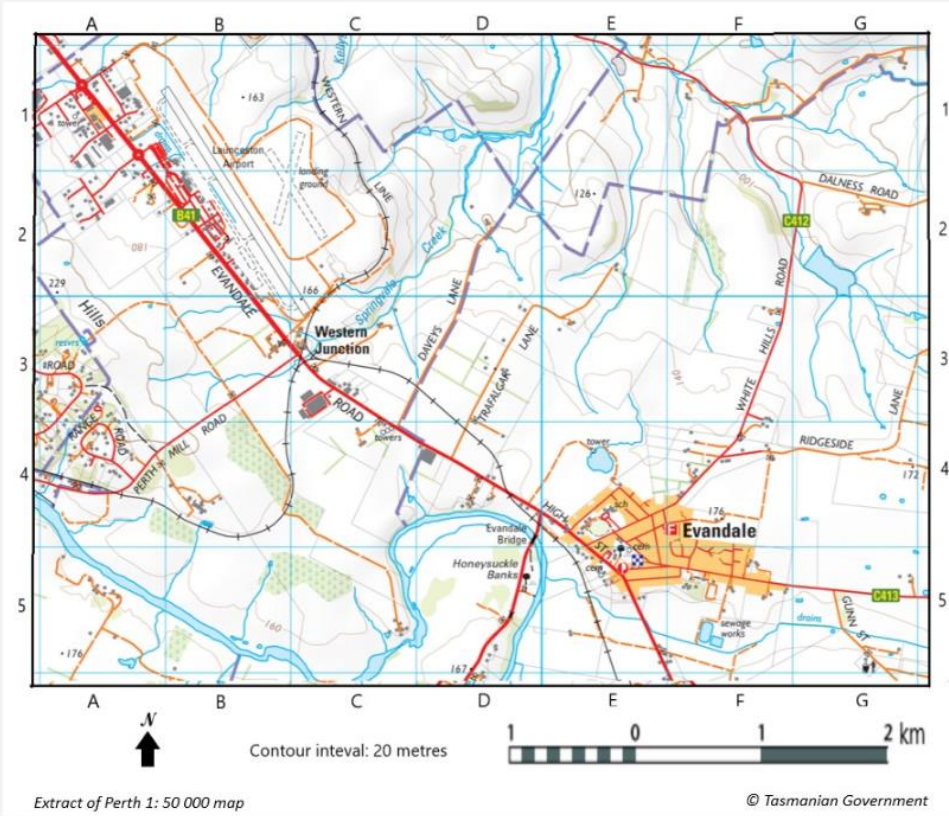
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Using the map, in approximately which direction would you be driving to go from Evandale to Western Junction?

- WNW
 SSE
 NNW
 ESE



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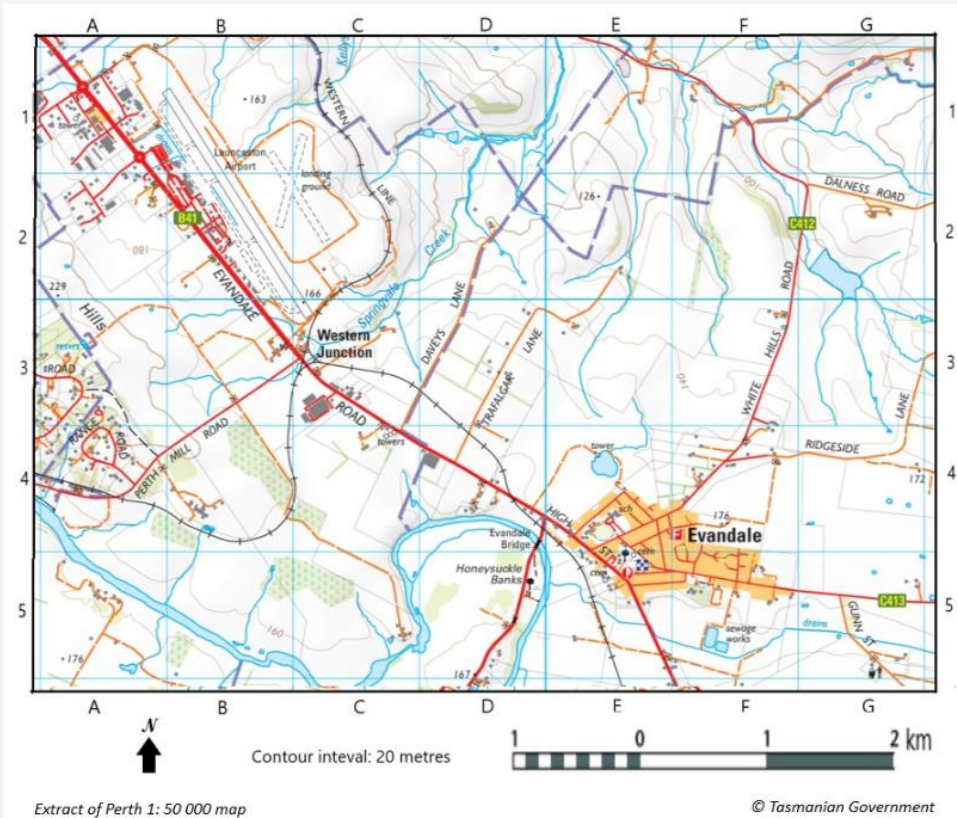
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Drag and drop the number that correctly completes the sentence. You may need to scroll down to see all the map.

- 150 170 190 200

The plantation shown in grid square C5 on the map is approximately metres above sea level.



Extract of Perth 1: 50 000 map

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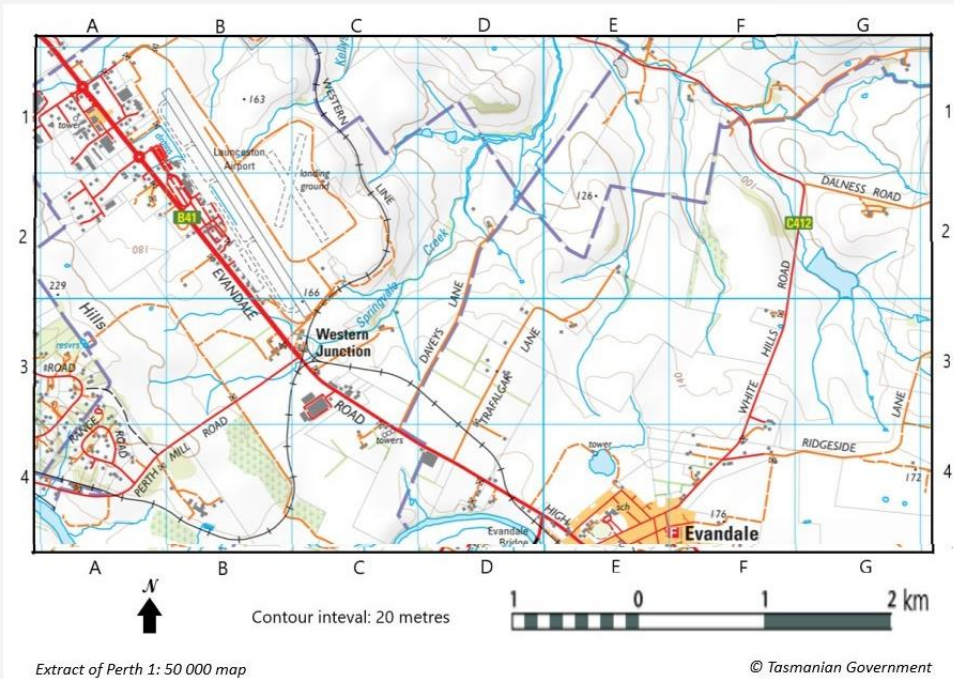
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Drag and drop the number that correctly completes the sentence. You may use the on-screen ruler - click on the symbol in the top right corner, drag and rotate it.

- 1.2 2.1 3.2 4.3

Using the map below, the length of Launceston Airport's main runway (see B1 to C3) is approximately km.



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