





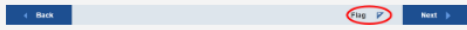



AUSTRALIAN GEOGRAPHY COMPETITION

2024 Year 7 - answers

Instructions

Welcome to the 2024 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.



Progress summary


Show all 4 Answered 22 Not answered 22 Not read 2 Flagged

Questions



Click a number to go to that question.

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Good luck!

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Question 1 of 30



Categorise each form of water as either an available or a potential freshwater resource by dragging the correct category into the table.

Available

Potential

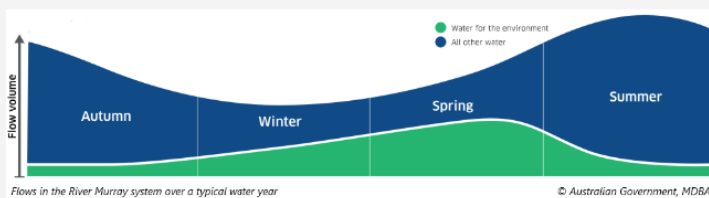
Form of water	Resource category
Surface water	Available
Ocean water	Potential
Glaciers and ice caps	Potential
Atmosphere	Potential

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Question 2 of 30



From the graph, in which season is the greatest flow of water typically seen in the River Murray system?

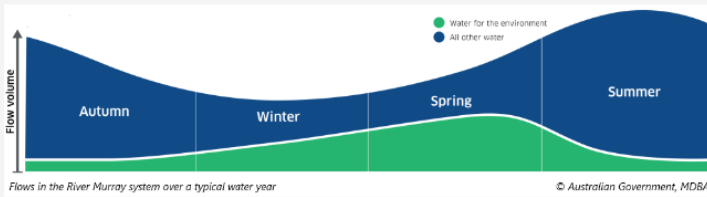
- spring
- autumn
- winter
- summer

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Question 3 of 30



From the graph, in which season is the flow of water for the environment typically at its greatest?

- summer
- spring
- autumn
- winter

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Question 4 of 30

How does the flow of water in the River Murray create connections between people and places? Select the three correct answers.

- First Nations Peoples' connection to Country relies on water to maintain traditional practices.
- The river provides water for agriculture, creating jobs.
- The River Murray supplies drinking water to Adelaide.
- The plants and animals that live in the Basin's unique ecosystems depend on water to survive.
- Native aquatic wildlife is able to breed.

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Question 5 of 30

Match the most appropriate category of water use to each photo by dragging the term onto the photo.



Agriculture

© Australian Government, DCCEEW



Recreation

© Australian Government, MDBA



Tourism

© T Devereux; CC-BY 4.0

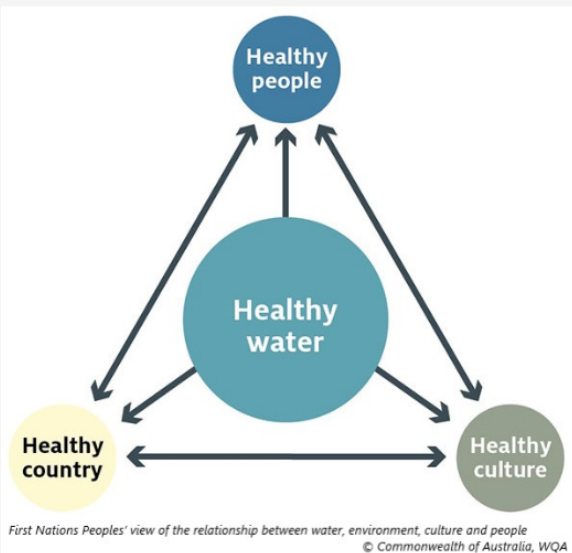


Environment

© Australian Government, MDBA

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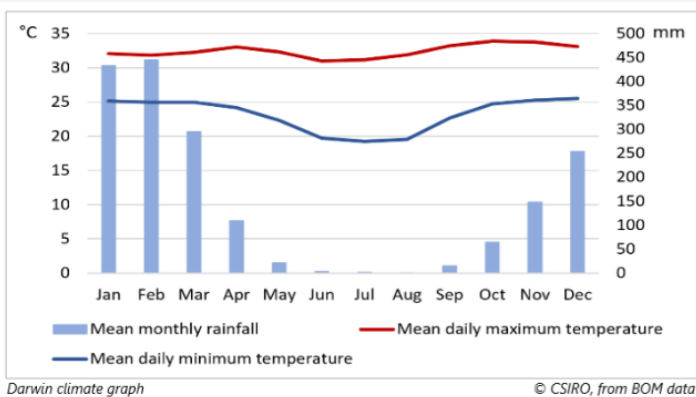


Categorise the following outcomes which occur when First Nations Peoples have a say in managing their water. Drag the outcomes to the appropriate places in the table.

Healthy country	Healthy culture	Healthy people
Native vegetation species flourish	Greater access to traditional knowledge for young people	Participation promotes mental wellbeing
Increased breeding of waterbirds	Culturally significant species regenerate	

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Question 7 of 30



Darwin climate graph

© CSIRO, from BOM data

Based on the graph, in which climate zone is Darwin located?

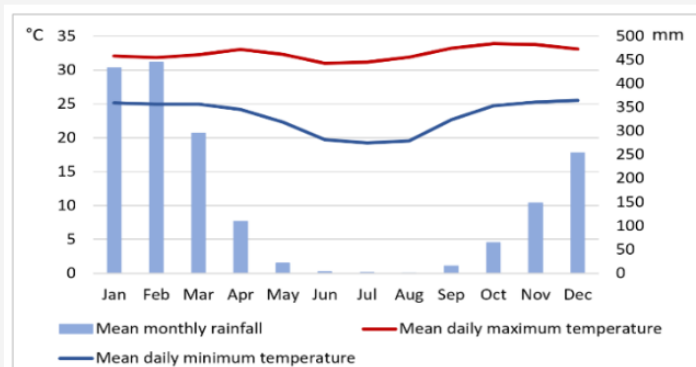
- polar
- temperate
- desert
- tropical

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Question 8 of 30



Darwin climate graph

© CSIRO, from BOM data

Using the graph, which is the driest season in Darwin?

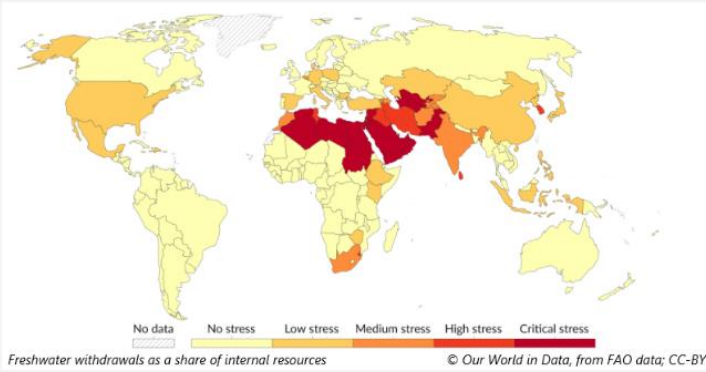
- spring
- autumn
- summer
- winter

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Question 9 of 30



Select an explanation that accounts for Australia being in the 'No stress' category in the map.

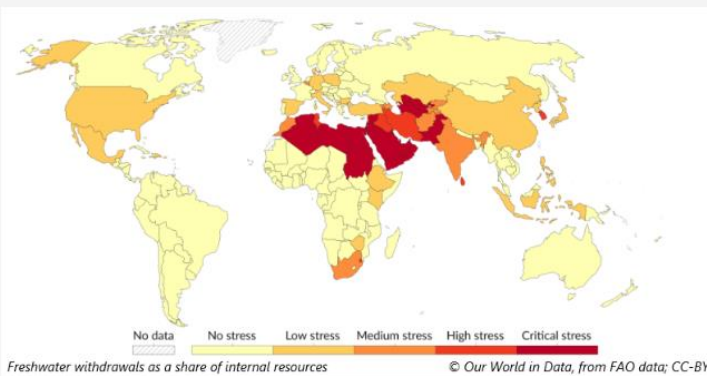
- low levels of agriculture that require freshwater
- low population and sufficient freshwater supply
- high levels of rainfall across the nation
- large desalination plants off the coasts of all capital cities

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Question 10 of 30



For regions with critical freshwater stress, which of these is the most sustainable strategy to better manage water withdrawals?

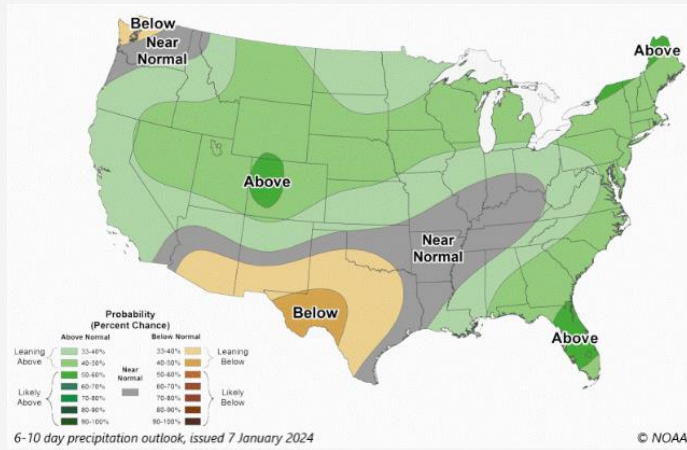
- build more groundwater extraction infrastructure
- implement more efficient agricultural irrigation techniques
- build desalination plants to convert seawater to freshwater
- plant more native vegetation in the region

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Question 11 of 30



Which description is the most appropriate for this type of map? A type of map that uses colours to show:

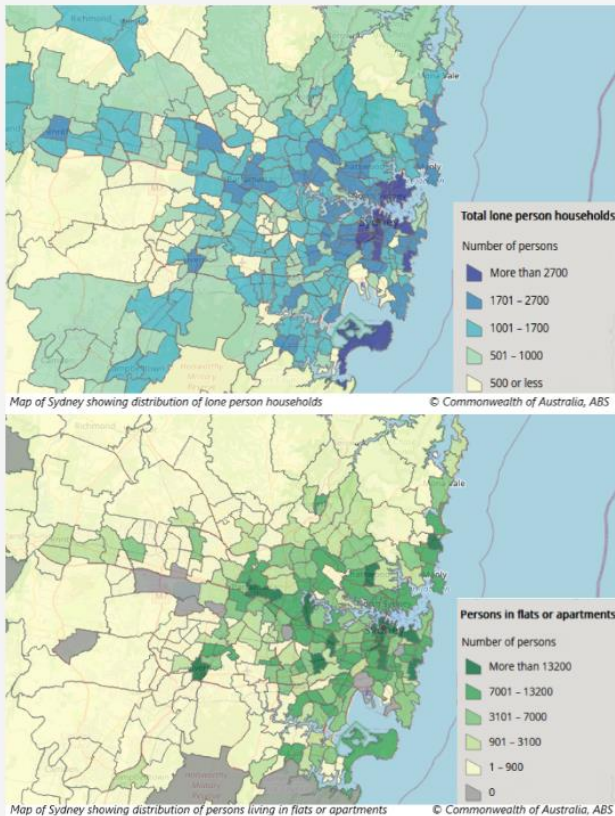
- how the population is distributed across a geographic area. These maps use lines of density to show areas with the same number of people.
- how a geographic area changes over space. These maps use contour lines to show different heights.
- how a certain attribute varies across a geographic area. These maps use isolines, to show areas of equal value.
- the distance from sea level across a geographic area. These maps use lines to show areas the same distance from sea level.

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Question 12 of 30



Based on the maps, which description best represents the spatial distribution of lone person households and persons living in flats or apartments? They are both clustered around:

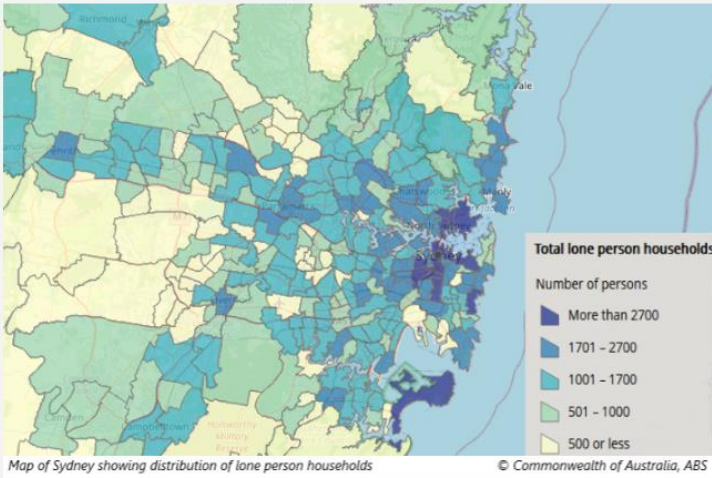
- northern Sydney suburbs
- inner Sydney suburbs
- outer Sydney suburbs
- western Sydney suburbs

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Question 13 of 30



Which of these is a plausible explanation to describe the pattern of lone person households?

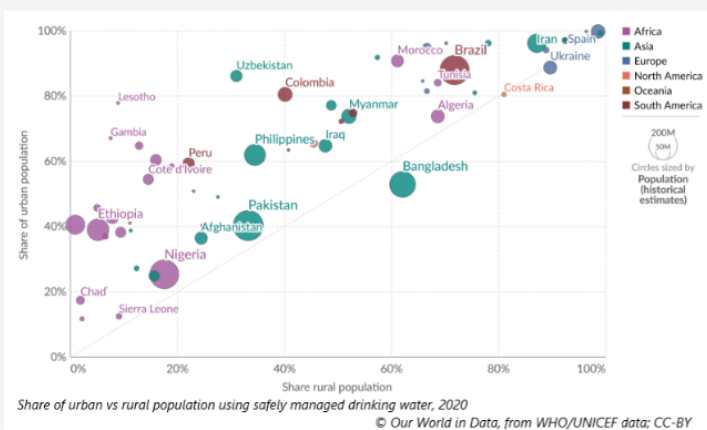
- Lone person households are more likely to be in the outer suburbs to access work.
- The linear pattern westwards represents a transport route to the CBD.
- The dispersed spatial pattern reflects the location of universities accessed by lone person households.
- Only single people can afford to live in Sydney.

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Question 14 of 30



Which of these statements best describes the relationship shown in the graph?

- In general, rural populations have greater access to safely managed drinking water than urban populations.
- Neither rural nor urban populations in African countries have any access to safely managed drinking water.
- In general, urban populations have greater access to safely managed drinking water than rural populations.
- Rural and urban populations both have good access to safely managed drinking water.

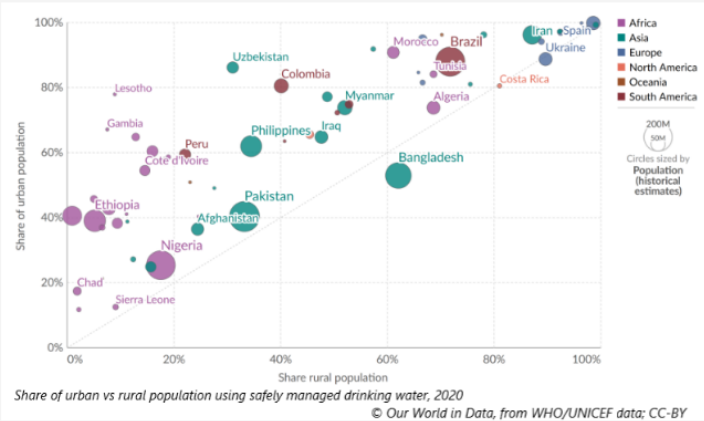
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Question 15 of 30



Which country represents an anomaly to the trend evident in the graph?

- Uzbekistan
- Chad
- Spain
- Bangladesh

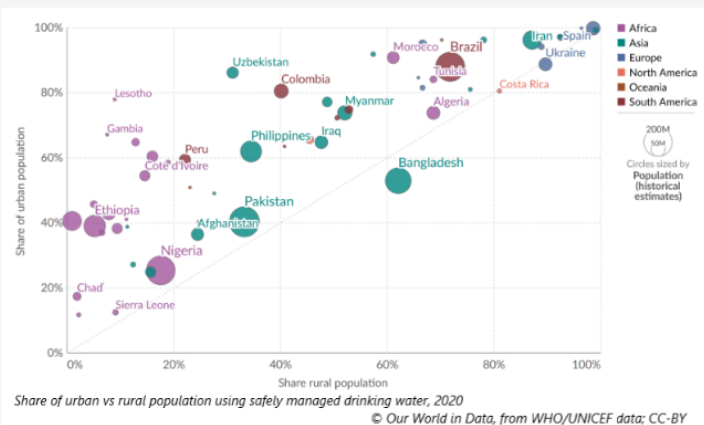
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Question 16 of 30



What percentage of rural dwellers had access to safely managed drinking water in Lesotho (see top left of graph)? Enter a whole number in the box.

 %

Acceptable answers 7-11

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Safely managed	Basic	Limited	Unimproved	Surface water
An improved source that: - located on premises; - available when needed; - and free from contamination	An improved source that: - meets a 'safely managed' criteria - under 30 mins to collect (roundtrip)	An improved source that: - meets a 'safely managed' criteria - over 30 mins to collect (roundtrip)	Water from an unprotected dug well or unprotected spring	Water directly from a river, dam, lake, pond, stream or canal

Improved water source
 Water sources are those that have the potential to deliver safe water by nature of their design. They include: piped water, boreholes or tubewells, protected dug wells or springs, rainwater, and packaged water.

Definitions of drinking water categories © Our World in Data, from WHO/UNICEF data; CC-BY

According to the table, which two types of water are typical of an improved water source?

- water piped directly to a premises
- water from an unprotected well
- water sourced directly from a dam
- water free from contamination



Which two statements best describe a '15-minute neighbourhood'? They are planned communities:

- where people can access key amenities by travelling no more than 15 minutes on foot or by bike
- with multiple land uses placed locally, reducing the need to drive
- where people must travel further than 15 minutes on foot or by bike to access key amenities
- where people must travel by private vehicle to access key amenities that are 15 minutes away




Question 19 of 30 



The terms below are features of a 15-minute neighbourhood. Drag the terms into the table where they best match the definitions.

Term	Definition
proximity	short physical distance to services, goods, buildings and places
diversity	providing inhabitants with access to a wide range of services, goods and facilities
density	the concentration in a given area of a sufficient number of residents to make it profitable to do business and provide a variety of public services

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Question 20 of 30 



Floorplans

© RoomSketcher

Which type of household would a dwelling like these best suit?

- shared accommodation for young adults
- family with three school-aged children
- elderly adult with carer
- a large family

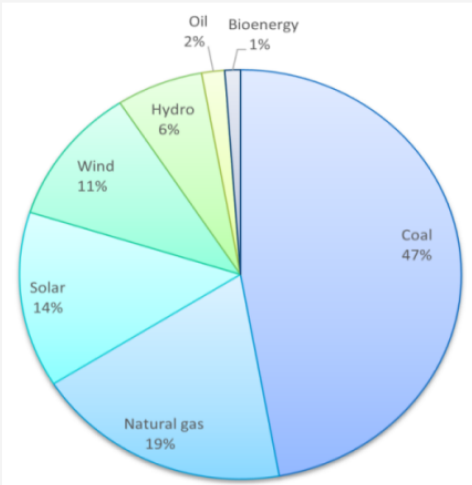
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Question 21 of 30



Australian electricity generation by fuel type, 2022
Data source: Dept of Climate Change, Energy, the Environment & Water

For this question you may use the on-screen calculator. Click on the icon in the top right corner.

According to the graph, what percentage of Australia's electricity is generated from renewable sources? Type your answer in the box.

32 %

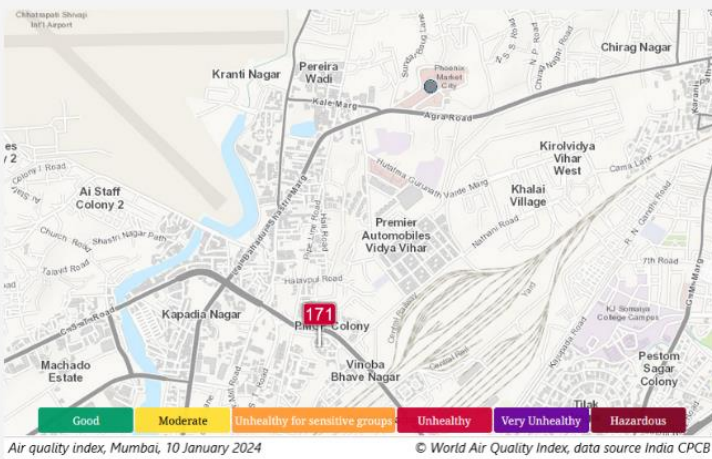
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Question 22 of 30



What was the level of the air quality for the Mumbai location shown on the map on that day?

- moderate
- unhealthy
- hazardous
- very unhealthy

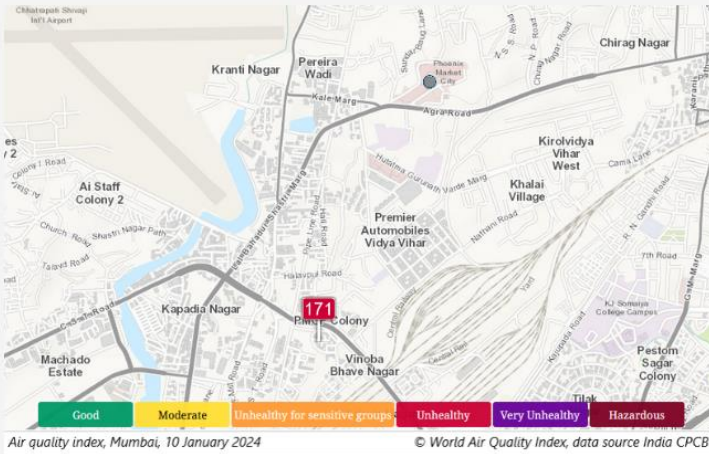
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Question 23 of 30



Which three of these factors would contribute to the pollution level shown on the map?

- industry
- transport
- population density
- wastewater

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Question 24 of 30



Which of these is an environmental factor that is a consideration for liveability in Mumbai?

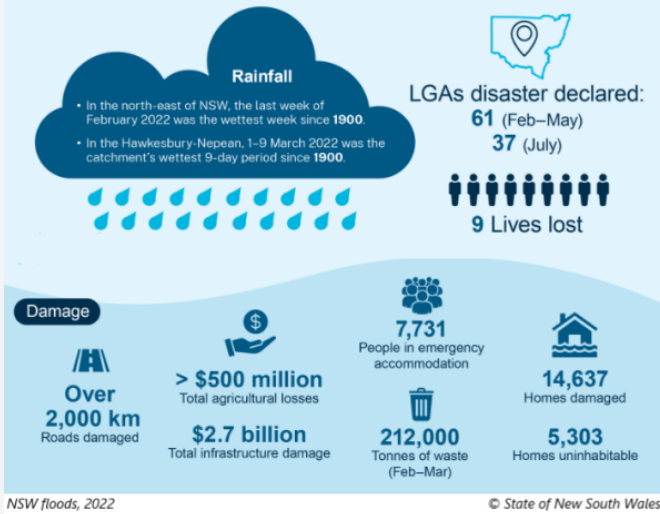
- sense of community
- water quality
- population density
- job opportunities

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2022 floods: Key statistics



Identify the primary category of the damages from NSW's 2022 floods by dragging the correct term into the table.

	Social	Economic	Environmental
Damages			
7,731 people in emergency housing	Social		
212,000 tonnes of waste			Environmental
9 lives lost	Social		
>\$500 million agricultural losses		Economic	
>2,000km roads damaged		Economic	

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Drag three of these statements into the most likely sequence of factors contributing to NSW's 2022 floods.

The active El Niño caused higher than average rainfall during the summer.

The neutral phase of the SOI caused higher than average rainfall during the summer.

Dry soils were unable to absorb rainfall.

1	The active La Niña caused higher than average rainfall during the summer.
2	Saturated soils were unable to absorb more rainfall.
3	Waterways experienced high flows due to higher rainfall.

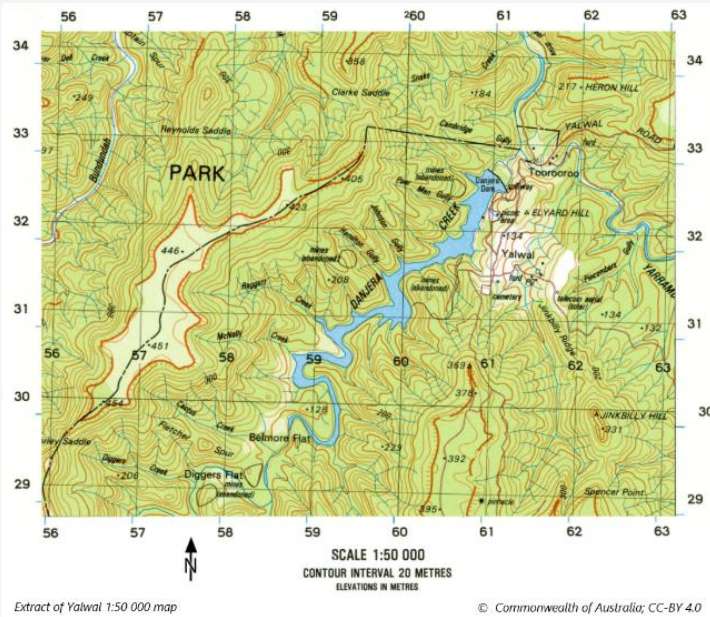
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Question 27 of 30



Using the map, what is the approximate height above sea level of Jinkbilly Hill (AR6229)?

- 310m
- 330m
- 370m
- 390m



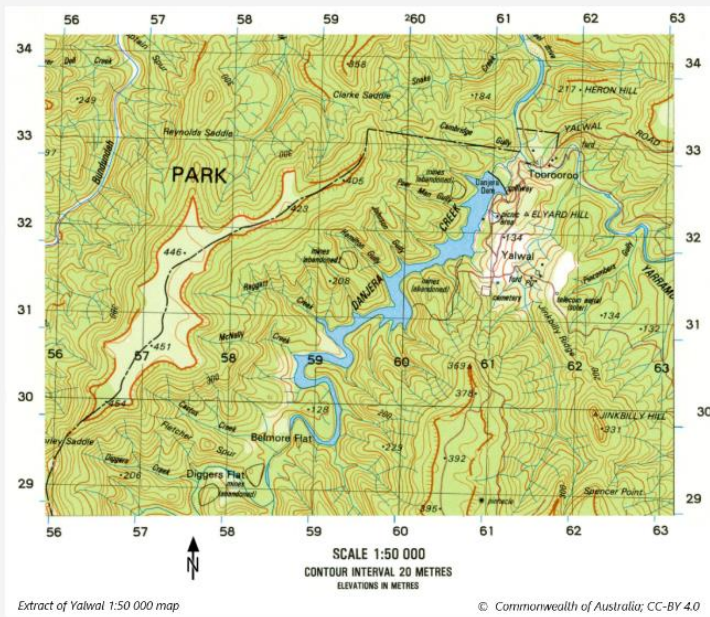
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Based on the map, in which direction does Danjerri Creek flow?

- northeast
- southwest
- northwest
- southeast



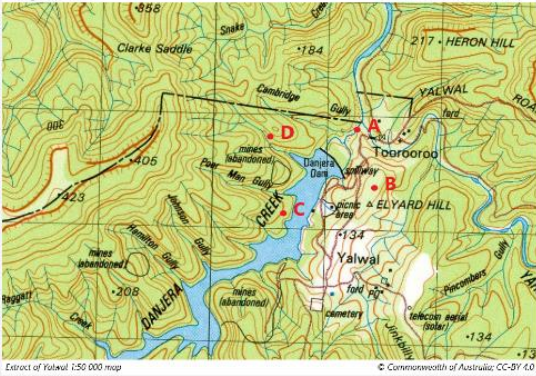
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Danjera Dam © Shoalhaven Water



Extract of Yalwal 1:50 000 map © Commonwealth of Australia; CC-BY 4.0

At which point on the map was the drone camera when the photo was taken?

- Point A
- Point B
- Point C
- Point D

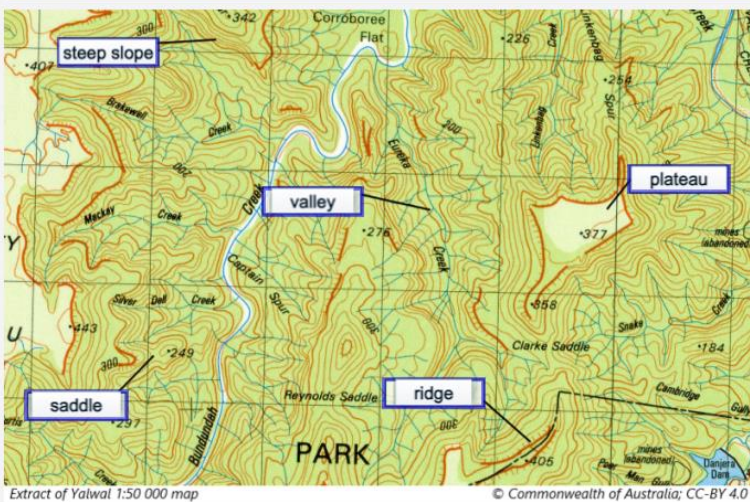
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Label the landforms by dragging the correct term onto the map.



Extract of Yalwal 1:50 000 map © Commonwealth of Australia; CC-BY 4.0

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