Ouestion 1

This document has been uploaded so that teachers or students can look over the questions that students have answered correctly or incorrectly. They contain none of the interactive elements of the online competition. Some of the wider graphics are missing their edges but the skill/knowledge required by the student to answer the question remains clear.

1. In the table below, choose an example for each state in which water exists.

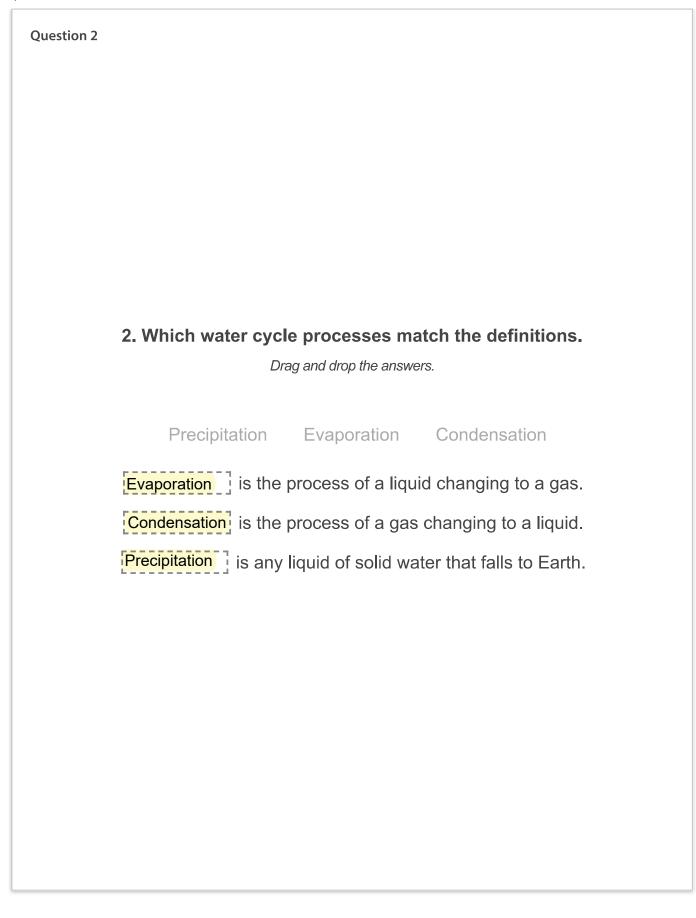
Choose the answers from the drop-down menus.

State	Example
solid	~
liquid	~
gas	~

solid: groundwater, rain, glacier

liquid: ocean, hail, iceberg

gas: water vapour, river, snow



Question 3

3. Which labels match the water cycle processes marked A to D in the diagram?

Drag and drop the answers.

EVAPORATION RUNOFF CONDENSATION

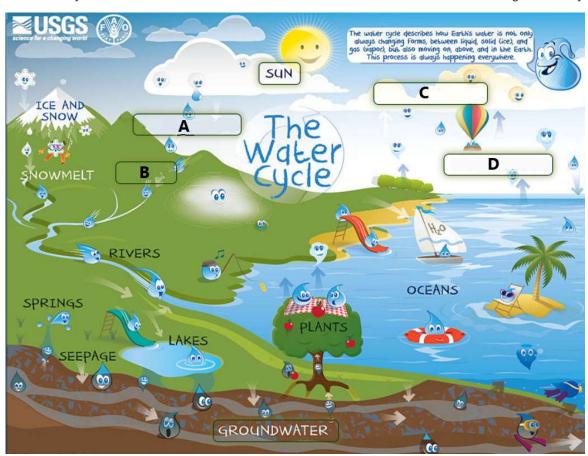
PRECIPITATION

Label A Precipitation Label B Runoff

Label C Condensation Label D Evaporation

The water cycle

© U.S. Geological Survey



Question 4

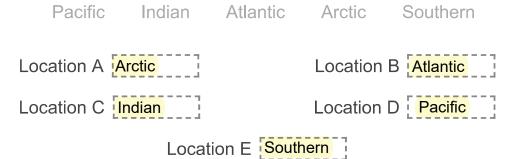
4. Approximately what percentage of all the water on Earth is found in the ocean?

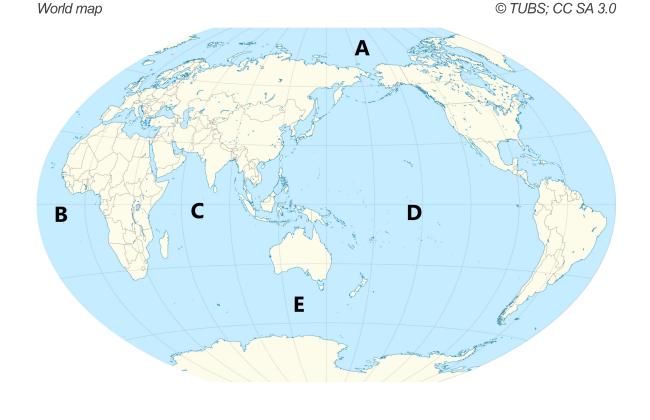
O 37%	1
O 57%	2
o 77%	3
0 97%	4

Question 5

5. Match the ocean names with the locations on the map.

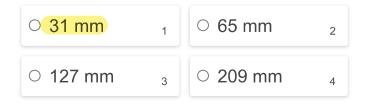
Drag and drop the answers.



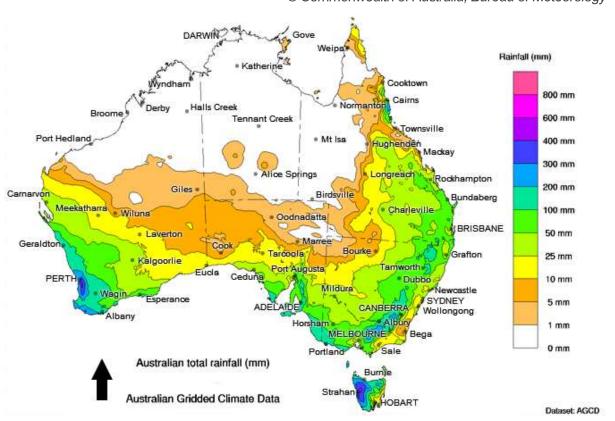


Question 6

6. How much rain did Kalgoorlie (WNW of Perth) receive in the month presented in the map?



Australian total rainfall for selected month in 2021



Question 7

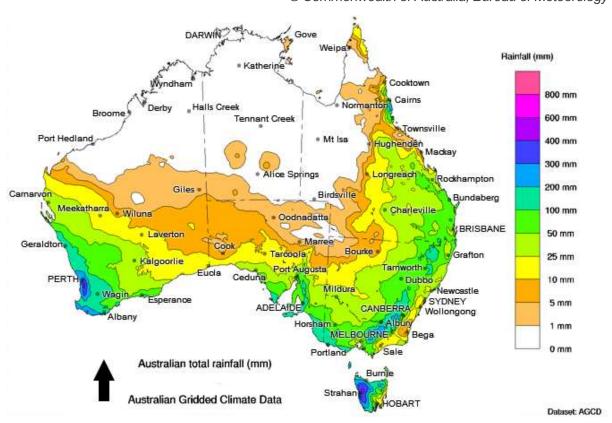
7. Given the pattern of rainfall, from which season is the data in the map?

Drag and drop the answer.

autumn winter summer spring

The map is for a month in winter

Australian total rainfall for selected month in 2021

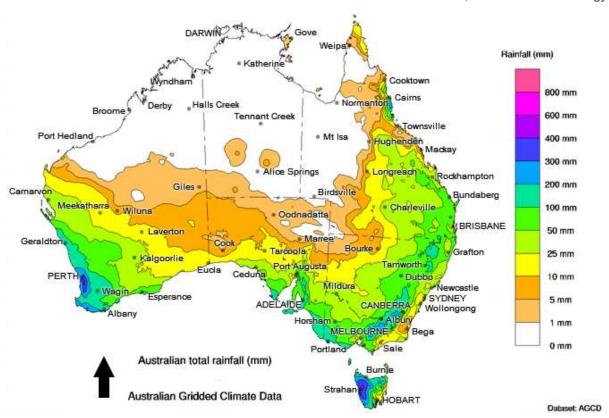


Question 8

8. Using the map, which direction is Melbourne from Alice Springs?

osoutheast	1	○ northwest	2
o southwest	3	o northeast	4

Australian total rainfall for selected month in 2021

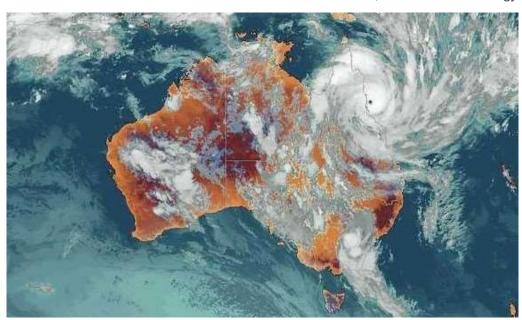


Question 9

9. Based on the satellite image, which warning would have been issued by the Bureau of Meteorology for an area in coastal north Queensland?

○ fire weather warning	1	o severe thunderstorm warning	2
○ tsunami warning		O tropical cyclone warning	

Satellite image, 2 February 2011



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10. Using the data in the table, how much rain does Tunis receive in winter on average?

Enter the number in the box. You may use a calculator.

183 mm

Climate data, Tunis, Tunisia

Source: World Meteorological Organization

Ionth	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
verage emp. °C	11.5	12.0	13.2	15.6	19.3	23.2	26.3	26.8	24.4	20.4	15.9	12.
verage	59	57	47	38	23	10	3	7	32	65	56	6

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11. Based on the data in the table, which type of climate does Tunis have?

○ arid	1	o continental	2
 Mediterranean 	3	○ tropical	4

Climate data, Tunis, Tunisia

Source: World Meteorological Organization

Ionth	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
verage mp. °C	11.5	12.0	13.2	15.6	19.3	23.2	26.3	26.8	24.4	20.4	15.9	12.
verage ainfall mm	59	57	47	38	23	10	3	7	32	65	56	6

	12	2. Which of these is the definition of water scar	city?
a finite amount of water; once used it cannot be used again	one o	of the resources provided by nature	1
O not anough water to most standard demands			

Question 13

13. What are the steps in the formation of a rain shadow? Number the events in the table in the correct sequence.

Enter the numbers in the boxes.

Order	Rain shadow formation steps
3	On the far side of the mountain range, the air has lost most of its moisture and warms as it descends.
2	The moist air cools as it rises, condensing and producing rain.
4	This warmer, drier air means rain is less likely on the far side of the mountain range.
1	Moist prevailing winds blowing in from the ocean rise up when they are blocked by a mountain range.

Question 14

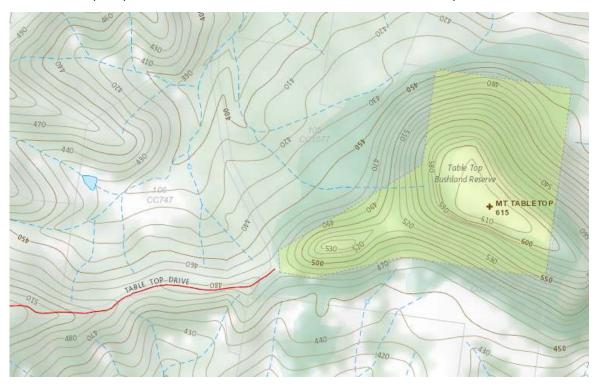
14. What is the height of the highest point on the map?

Enter the number in the box.

615 m

Mount Tabletop map extract

© State of Queensland, Department of Resources



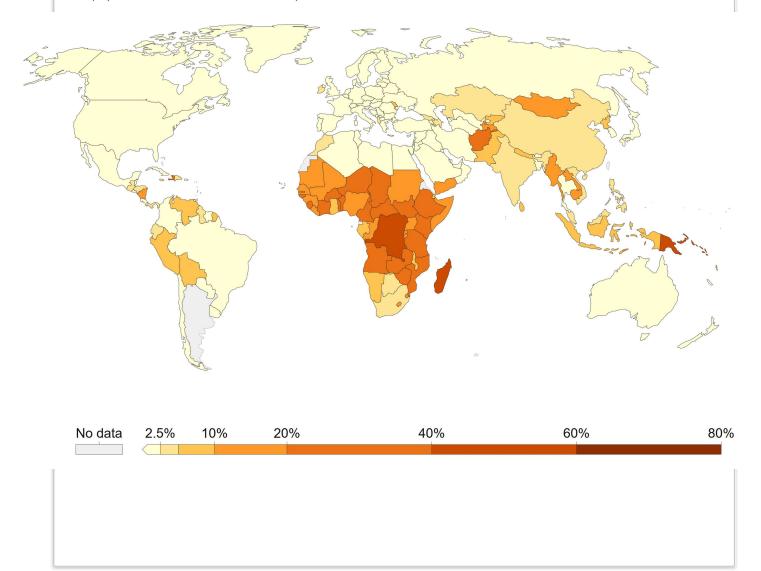
Question 15

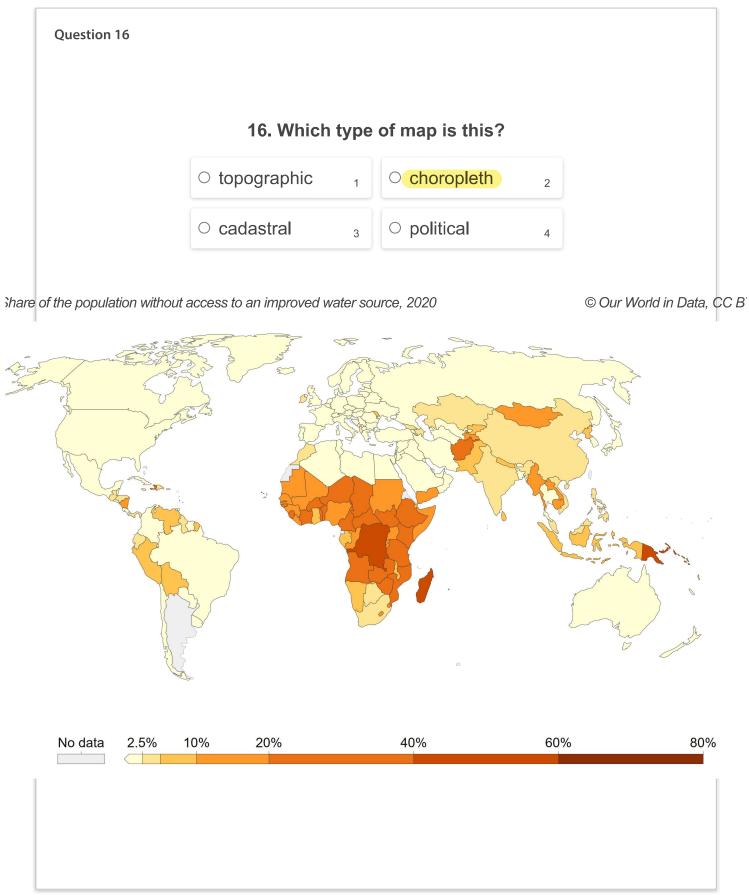
15. Based on the map, what is one reason why people have more access to an improved water source?

higher population	1	O larger land area	2
O higher GDP per capita	3	 population density 	4

Share of the population without access to an improved water source, 2020

© Our World in Data, CC B





Question 17

17. In 2020 approximately 2 billion of the world's 7.8 billion people did not have access to safely managed drinking water.

Approximately what percentage of the world's population was that?

O 16%	1
O 26%	2
O 36%	3
O 46%	4

Question 18

18. Classify the liveability factors below as to whether they can easily be measured quantitatively (in numbers) or are usually measured qualitatively (in words).

Choose the answers from the drop-down menus.

Liveability factor	Measurement	
feelings of community connection	✓ <mark>qualita</mark>	ive
environmental quality	quantit	ative
infrastructure		ative
traditional and spiritual associations	✓ qualita	tive
climate	✓ quantit	ative

Question 19

19. Using the table, how many cities in Oceania were ranked among the top 10 liveable cities in 2021?

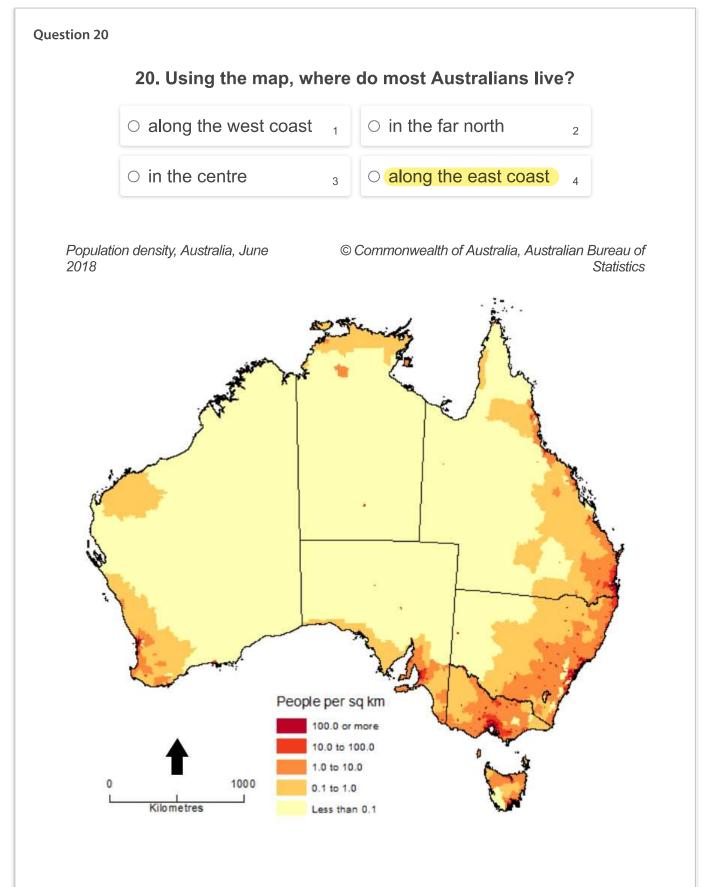
Enter the number in the box.

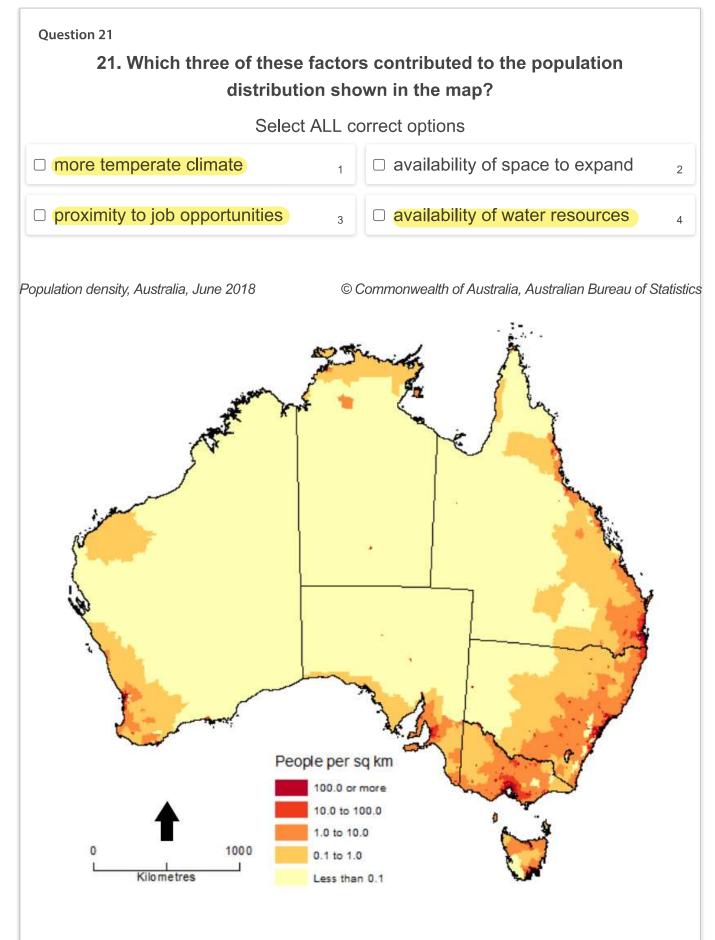


Most liveable cities, 2021

Source: EIU Global Liveability Index

Rank	City
1	Auckland, New Zealand
2	Osaka, Japan
3	Adelaide, Australia
4	Wellington, New Zealand
5	Tokyo, Japan
6	Perth, Australia
7	Zurich, Switzerland
8	Geneva, Switzerland
9	Melbourne, Australia
10	Brisbane, Australia





Question 22

22. Which phenomenon is illustrated in the satellite image animation edge expansion of western Sydney?

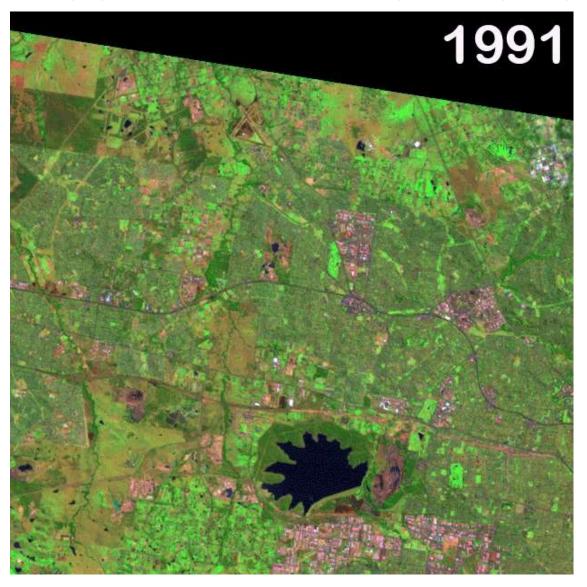
Choose the answer from the drop-down menu.

rural-urban migration tree change urban sprawl

The animation represents

(File loaded separately - Sydney_Landsat.gif)
Western Sydney, 1991, 2002, 2019
Source

Source images © U.S. Geological Survey



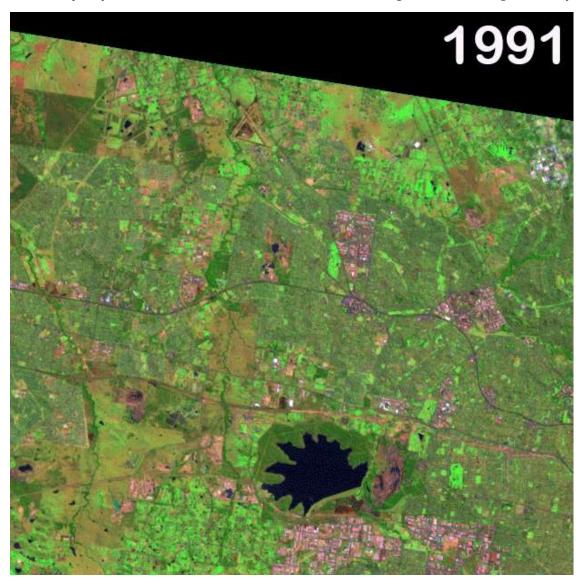
Question 23

23. Which is the most sustainable and efficient transport strategy to address impacts arising from the changes seen in the animation?



Western Sydney, 1991, 2002, 2019

Source images © U.S. Geological Survey



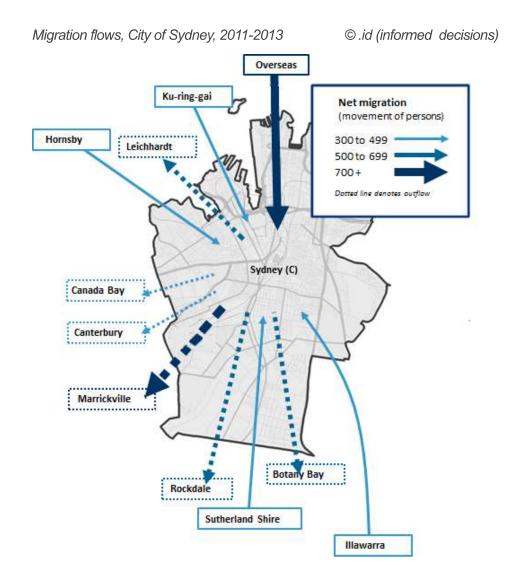
Question 24

24. Using the map, from where did the City of Sydney receive the greatest net increase of residents?

Choose the answer from the drop-down menu.

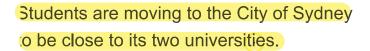
The greatest net increase was from





Question 25

25. What is the most likely reason for the migration flow in the 20-24 years age group, as seen in the graph?



The City of Sydney has high quality health facilities.

The City of Sydney is a well-known tourist destination.

let migration by age group, City of Sydney, 2016-2021

People moving to the City of Sydney have many dependants aged 20-24.

© .id (informed decisions





Age group (years)

Question 26

26. Which biome has been cleared in the area shown in the photo?

O deciduous forest	1	rainforest	2
o coniferous forest	3	o shrubland	4

Land clearing for oil palm plantation, Sabah, Malaysia

© Mongabay.com



Question 27

27. Which of these geographical concepts is best illustrated in the photo?

o scale	1	○ change	2
o place	3	○ space	4

Land clearing for oil palm plantation, Sabah, Malaysia

© Mongabay.com



Question 28 28. Watch the video. In which year was more land in northern Australia affected by fires? 0 2004 O 2019 2 Video loaded separately - see North_Aust_HotSpots_edited.mp4 A comparison of two extreme fire condition years in Northern Australia © Charles Darwin University; North Australia and Rangelands Fire Information

Question 29			
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29. Using		th in 2004 was the most land burnt n Australia?	t
	in normen	i Australia ?	
	○ September ₁	O October 2	
	O November 3	O December 4	
A comparison of the	wa autrama fira canditian waara in Ma	artha ra Australia	
A COMPANSON OF N	vo extreme fire condition years in No Charles Darwin Univ	ortnem Australia versity; North Australia and Rangelands Fire Inform	nation
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Question 30	Educa	cation Perfect	
management tool	for their country	oles have used fire as a of for thousands of years. Toach to land management?	
	o custodial	1	
	o destructive	2	
	○ vigilant	3	
	o careful	4	