

## CHALLENGE

## Round 1: Cry me a river

Total: (  /10)

## Questions

## Answers

1. Which country is home to the Magdeburg Water Bridge that crosses over the Elbe River?



- A) Austria
- B) Switzerland
- C) Czech Republic
- D) Germany

2. Which of the following countries does not have any rivers?

- A) Sudan
- B) Ecuador
- C) Vietnam
- D) Bahamas

3. Which continent is home to the river with the largest discharge rate in the world?

- A) North America
- B) Africa
- C) South America
- D) Asia

## CHALLENGE

4. Which of the following rivers is the longest in North America?

- A) Mississippi
- B) Rio Grande
- C) Missouri
- D) Columbia

5. Which of the following rivers is the longest in the world?

- A) Nile
- B) Congo
- C) Ganges
- D) Amazon

6. Which of the following is the largest river flowing into the Arctic Ocean from North America?

- A) Mackenzie
- B) Yukon
- C) Thompson
- D) Fraser

7. Which river's tributaries meet and drain into Lake Winnipeg?



- A) 1
- B) 5
- C) 2
- D) 4

## CHALLENGE

8. Which river reverses its flow twice a day due to extreme tidal changes at its river mouth?



- A) 10
- B) 4
- C) 8
- D) 9

9. The Ottawa River forms part of the border between Ontario and Quebec. Which number represents the Ottawa River?



- A) 8
- B) 9
- C) 10
- D) 7

10. The Cariboo Gold Rush took place along the banks of this river starting in 1858.



- A) 2
- B) 3
- C) 1
- D) 6

## CHALLENGE

## Round 2: Canadian Urban Spaces

Total: (  /10)

## Questions

## Answers

1. According to the 2011 Statistics Canada data, of the 33 metropolitan/urban centres in Canada, how many are located on the prairies?

- A) 5
- B) 4
- C) 2
- D) 6

2. Which Canadian city is connected to the USA by a tunnel that is the 2nd busiest crossing between the Canada and the USA?

- A) Sarnia
- B) Sault Ste. Marie
- C) Niagara Falls
- D) Windsor



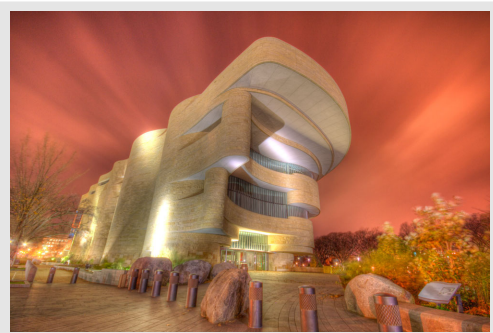
## CHALLENGE

3. Which city is home to Stanley Park and the area known as Gastown - its oldest neighbourhood and the location of a famous steam clock?



- A) Yellowknife
- B) Fort McMurray
- C) Calgary
- D) Vancouver

4. The National Museum of the American Indian in Washington, D.C., (shown in the photograph) was designed by Canadian architect Douglas Cardinal. Which Canadian city is home to a national museum also designed by Cardinal?



- A) Toronto
- B) Calgary
- C) Regina
- D) Gatineau

## CHALLENGE

5. Once fully established, this park will be the largest urban park in North America. What is the name of this Canadian national park?
- A) Point Pelee
  - B) Banff
  - C) Waterton Lakes
  - D) Rouge
- 
6. Which of the following cities has the largest population at just over 25,000 as of 2016?
- A) Yellowknife
  - B) Whitehorse
  - C) Iqaluit
  - D) Dawson City
- 
7. The Red River Floodway was created to protect which city?
- A) Edmonton
  - B) Regina
  - C) Winnipeg
  - D) Saskatoon
- 
8. Which of the following cities in New Brunswick has the largest population?
- A) Dieppe
  - B) Fredericton
  - C) Moncton
  - D) Saint John
-

## CHALLENGE

9. Which of the following locations is the only "walled city" north of Mexico?

- A) Montreal
- B) Kingston
- C) Québec City
- D) Brockville

10. Which of the following cities is home to Canada's oldest Chinatown?

- A) Toronto
- B) Vancouver
- C) Victoria
- D) St. John's

## CHALLENGE

## Round 3: High Seas

Total: (  /10)

## Questions

## Answers

- |                                                                                                                                                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. What is the definition of a sea?<br><br>A) A smaller part of an ocean, which is partially enclosed by land.<br>B) Salt water areas that are completely surrounded by land.<br>C) Former lakes that flooded their banks and are now brackish.<br>D) Ocean ecosystems that are devoid of marine life. |  |
| 2. Which sea is the warmest in the world with its temperature ranging from 20°C to 30°C?<br><br>A) Barents<br>B) Red<br>C) Weddell<br>D) Mediterranean                                                                                                                                                 |  |
| 3. Which of the following examples is the only one that is technically a sea?<br><br>A) Aral Sea<br>B) Hudson Bay<br>C) Caspian Sea<br>D) Lake Tanganyika                                                                                                                                              |  |
| 4. Which of the following seas is the saltiest in the world?<br><br>A) Dead<br>B) Red<br>C) Celtic<br>D) Ionian                                                                                                                                                                                        |  |



## CHALLENGE

5. Which sea borders three continents?

- A) East Siberian
- B) Mediterranean
- C) Arabian
- D) Tasman

6. Which of the following countries does not border the Baltic Sea?

- A) Sweden
- B) Finland
- C) Germany
- D) France

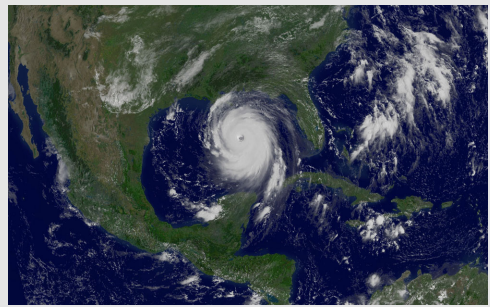
7. Which sea is being shown in the satellite image?



- A) Caribbean
- B) Aegean
- C) Arabian
- D) Coral

## CHALLENGE

8. Which sea is experiencing a hurricane in the satellite image?



- A) Arabian Sea
- B) Bay of Bengal
- C) Java Sea
- D) Gulf of Mexico

9. Which of the following seas has Turkey, Russia and Ukraine amongst its coastline neighbours?

- A) Black
- B) Baltic
- C) Baikal
- D) Aral

10. Which sea is being shown in the satellite image?



- A) Philippine
- B) Salish
- C) Arabian
- D) Labrador

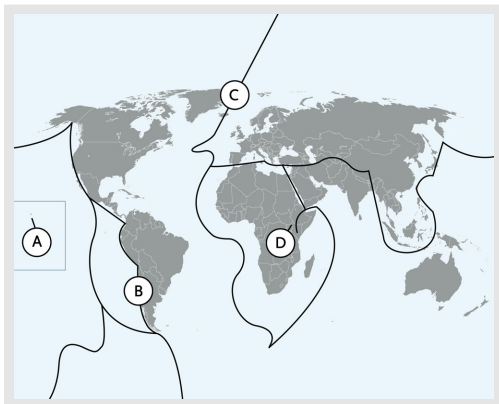
## Round 4: shaking all over

Total: (  /10)

## Questions

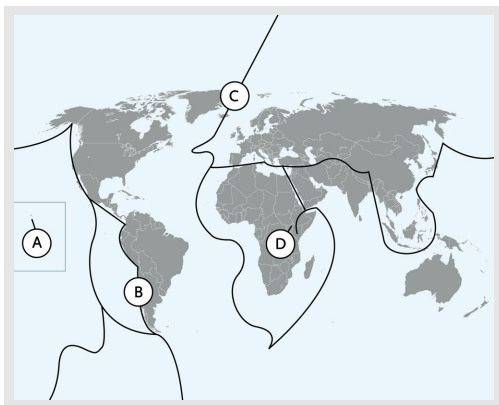
## Answers

1. At which map location are you most likely to find a composite cone volcano?



- A) B
- B) A
- C) C
- D) D

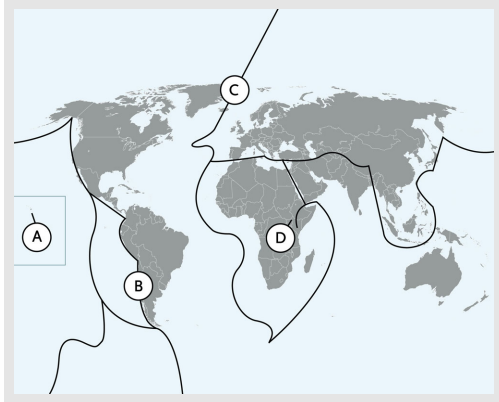
2. What type of plate boundary occurs at the location identified in the previous question?



- A) Subduction
- B) Divergent
- C) Compression
- D) Hot Spot

## CHALLENGE

3. At which map location is a hot spot responsible for new land formation?



- A) B
- B) C
- C) D
- D) A

4. Which type of plate boundary is most closely associated with deep ocean trenches?

- A) Divergent
- B) Slip-strike
- C) Constructive
- D) Subduction

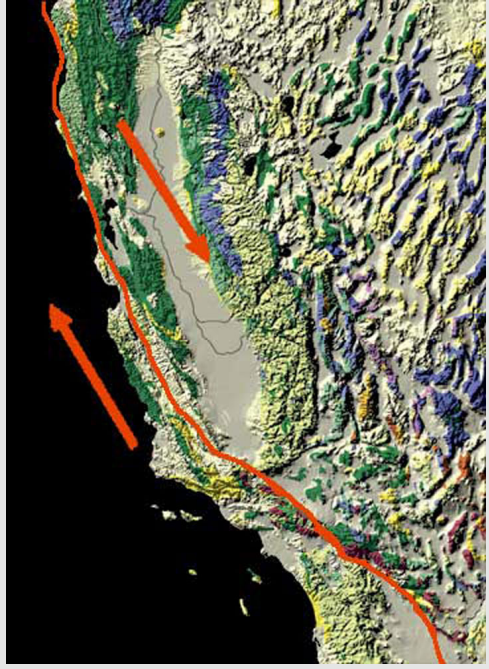
5. Which sphere contains the convection currents responsible for the movement of tectonic plates?

- A) Lithosphere
- B) Hydrosphere
- C) Asthenosphere
- D) Cryosphere



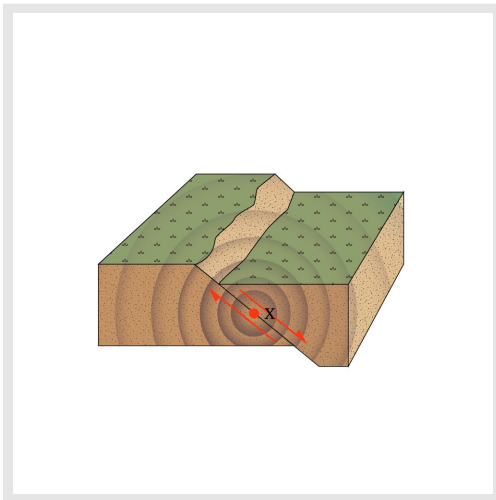
## CHALLENGE

6. The San Andreas fault is an example of what kind of fault?



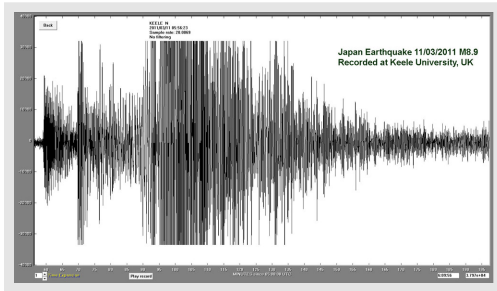
- A) Thrust Fault
- B) Transform fault
- C) Normal Fault
- D) Reverse Fault

7. What is location X in the diagram?



- A) Focus
- B) Epicentre
- C) Fault
- D) Rift

8. What instrument was used to capture this recording of the 2011 earthquake in Japan?



- A) Richter Scale
- B) Seismograph
- C) GPS Satellite
- D) Barometer

9. Which of the following earthquake hazards would be of immediate concern to communities built on compacted sediment?

- A) Tsunami
- B) Landslide
- C) Ash cloud
- D) Liquefaction

10. What type of plate boundary is responsible for the formation of the Alps and Himalayan mountains?

- A) Divergence
- B) Convergence
- C) Rifting
- D) Transform

## CHALLENGE

## Round 5: Winter Olympics

Total: (  /10)

## Questions

## Answers

- |                                                                                                                                                                                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. Which European country has hosted the Winter Olympics three times (and summer games twice)?<br><br>A) France<br>B) Germany<br>C) Britain<br>D) Italy                          |  |
| 2. Which country has hosted the Winter Olympics more than any other country - four times (and summer games four times)?<br><br>A) Russia<br>B) China<br>C) South Korea<br>D) USA |  |
| 3. The 1972 Winter Olympics were the first to be held outside of Europe or North America. Which city was the host?<br><br>A) Beijing<br>B) Sarajevo<br>C) Sapporo<br>D) Nagano   |  |

## CHALLENGE

- |                                                                                                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 4. Which is the warmest city to host the Winter Olympics?                                                                                                         |  |
| A) Lake Placid                                                                                                                                                    |  |
| B) Albertville                                                                                                                                                    |  |
| C) Grenoble                                                                                                                                                       |  |
| D) Sochi                                                                                                                                                          |  |
| 5. Which Scandinavian country's athletes have won more medals than any other country in the Winter Olympics? This country has also hosted the winter games twice. |  |
| A) Sweden                                                                                                                                                         |  |
| B) Norway                                                                                                                                                         |  |
| C) Finland                                                                                                                                                        |  |
| D) Denmark                                                                                                                                                        |  |
| 6. Which river runs through the 2006 host city of Turin?                                                                                                          |  |
| A) Adige                                                                                                                                                          |  |
| B) Arno                                                                                                                                                           |  |
| C) Po                                                                                                                                                             |  |
| D) Tiber                                                                                                                                                          |  |
| 7. Which city is the most northerly latitude to host a Winter Olympics?                                                                                           |  |
| A) Oslo                                                                                                                                                           |  |
| B) St. Moritz                                                                                                                                                     |  |
| C) Lillehammer                                                                                                                                                    |  |
| D) Garmisch-Partenkirchen                                                                                                                                         |  |



## CHALLENGE

8. Which city is the most southerly latitude to host a Winter Olympics?

- A) Sochi
- B) Salt Lake City
- C) Vancouver
- D) Nagano

9. Which Winter Olympics host city is now a part of a different country?

- A) Innsbruck
- B) Squaw Valley
- C) Chamonix
- D) Sarajevo

10. Which city hosted the 2014 Winter Olympics?

- A) Vancouver
- B) Nagano
- C) Sochi
- D) PyeongChang

## CHALLENGE

## Round 6: Antarctica

Total: (  /10)

## Questions

## Answers

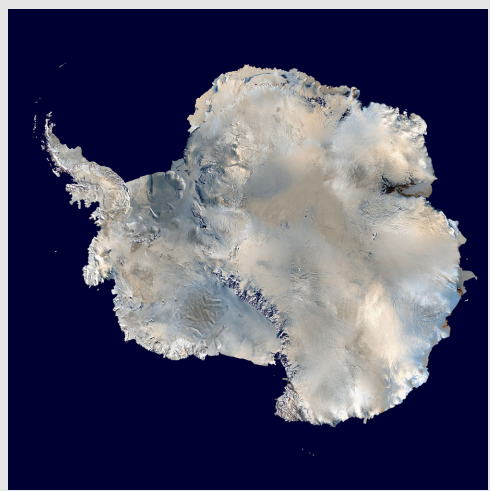
1. What percentage of the world's fresh water is located in Antarctica?

- A) 3%
- B) 50%
- C) 70%
- D) 95%

2. Which volcano is the second highest in Antarctica as well as the most southerly active volcano on Earth?

- A) Mt. Sidley
- B) Mt. Erebus
- C) Mt. Everest
- D) K2

3. What percentage of Antarctica is permanently ice-free?



- A) less than 1%
- B) 1%
- C) 3%
- D) 5%

## CHALLENGE

4. Antarctica's area is about 14 million km<sup>2</sup>, which is approximately how many times larger than the mainland USA?
- A) 1.5
  - B) 2.5
  - C) 3.5
  - D) 4.5
- 
5. If all the ice in Antarctica were to melt, world sea levels would rise by approximately how many meters?
- A) 60m
  - B) 10m
  - C) 20m
  - D) 40m
- 
6. Antarctica ranks as the \_\_\_\_\_ largest continent in terms of area.
- A) 2nd
  - B) 4th
  - C) 5th
  - D) 7th
- 
7. The population of birds in Antarctica is estimated to be 350 million. Approximately what percentage of those are penguins?
- A) 10%
  - B) 75%
  - C) 90%
  - D) 50%
-

## CHALLENGE

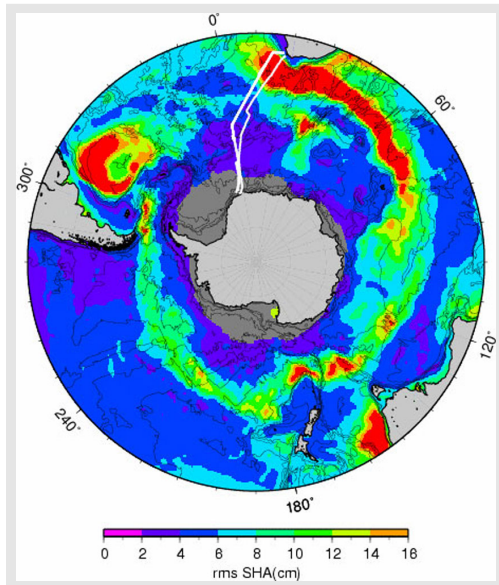
8. On Dec. 14, 1911, \_\_\_\_\_ and his crew were the first humans to arrive at the South Pole.

- A) Sir James Clark Ross
- B) Robert Falcon Scott
- C) Sir Ernest Shackleton
- D) Roald Amundsen

9. Ross is the largest \_\_\_\_\_ in Antarctica.

- A) Mountain Range
- B) Island
- C) Research Station
- D) Ice Shelf

10. What is the name of the world's largest wind-driven current, which circles Antarctica?



- A) Humboldt Current
- B) Kamchatka Current
- C) Cromwell Current
- D) Circumpolar Current



## CHALLENGE

## Round 7: Weather

Total: (  /10)

## Questions

## Answers

1. Hurricanes develop due to interactions between which two layers of the atmosphere?

- A) Biosphere and thermosphere
- B) Hydrosphere and atmosphere
- C) Lithosphere and asthenosphere
- D) Stratosphere and atmosphere

2. What are the two main elements used to classify climates?

- A) Humidity and pressure
- B) Pressure and temperature
- C) Evaporation and transpiration
- D) Temperature and precipitation

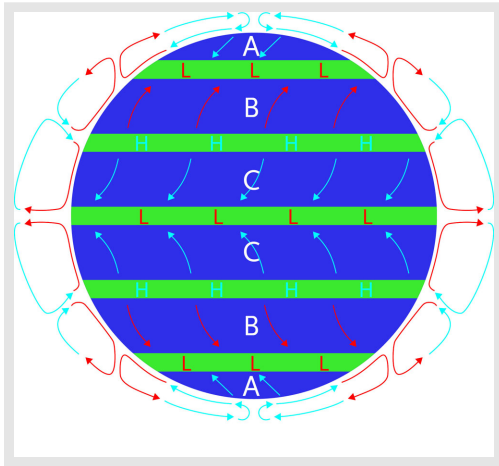
3. At which of the following locations do tornadoes occur most often?



- A) A
- B) B
- C) C
- D) D

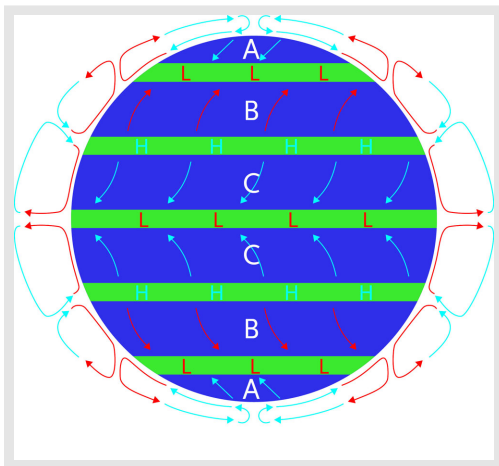
## CHALLENGE

4. Which letter on the diagram represents the Trade Winds?



- A) A
- B) C
- C) B

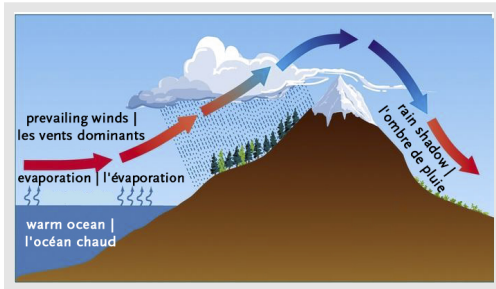
5. Name the prevailing winds at location B, which are mainly responsible for weather conditions in Canada.



- A) Westerlies
- B) Easterlies
- C) Polar
- D) Subtropical

## CHALLENGE

6. Which type of precipitation is being shown in the diagram?



- A) Orographic
- B) Convectional
- C) Frontal
- D) Monsoon

7. Which of the following cloud types is likely to cause steady, light precipitation?

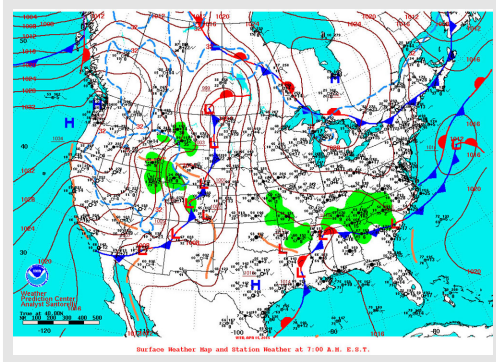
- A) Cumulus
- B) Nimbostratus
- C) Stratus
- D) Alto Cirrus

8. Which of the following locations typically experiences the greatest seasonal variation in temperature?

- A) Victoria
- B) Winnipeg
- C) Whitehorse
- D) Montreal

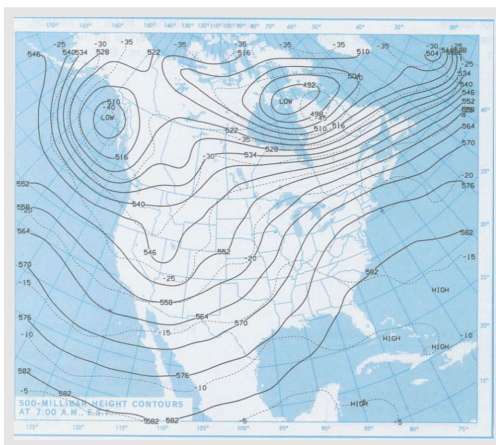
## CHALLENGE

9. On the map provided, what do the blue triangle symbols represent?



- A) Cold Front
- B) Warm Front
- C) Relief Precipitation
- D) Convectional Precipitation

10. On the map provided, what do the lines represent?



- A) Surface Temperature
- B) Wind Speed
- C) Elevation
- D) Air Pressure

## CHALLENGE

## Round 8: demographics

Total: (  /10)

## Questions

## Answers

- |                                                                                                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. Demography is the study of?<br><br>A) population dynamics<br>B) death<br>C) distributions of cemeteries<br>D) geography and political organization                                                      |  |
| 2. What is Canada's birth rate (per 1000 people)?<br><br>A) 14<br>B) 11<br>C) 8<br>D) 17                                                                                                                   |  |
| 3. Natural increase is calculated and defined by the following:<br><br>A) death rate times birth rate<br>B) birth rate plus immigration<br>C) birth rate plus death rate<br>D) birth rate minus death rate |  |
| 4. Replacement level fertility: What is the average number of children per woman necessary for a developed country to maintain its population?<br><br>A) 1.1<br>B) 2.1<br>C) 1.5<br>D) 2.5                 |  |



## CHALLENGE

5. Dependency ratio: this is the percentage of people under 15 and over 64 years compared to the population that is able to work and support themselves (15-64 years of age.) What is Canada's dependency ratio?
- A) 35%
  - B) 23%
  - C) 47%
  - D) 15%
- 
6. Population density is the number of people living per unit area of land. What is Canada's population density?
- A) 4 people per square km
  - B) 6 people per square km
  - C) 8 people per square km
  - D) 1 person per square km
- 
7. What percentage of Canadians live in rural areas?
- A) 28%
  - B) 18%
  - C) 24%
  - D) 15%
- 
8. What is the average age of a Canadian farmer?
- A) 40
  - B) 45
  - C) 55
  - D) 50
-

## CHALLENGE

9. What is the total size of the Indigenous population in Canada (including First Nations, Métis, Inuit, Status and Non-status)?
- A) 1.8 million
  - B) 0.8 million
  - C) 2.1 million
  - D) 1.4 million
- 
10. Fill in the blank: During stage 2 of the demographic transition model birth rates \_\_\_\_\_ while death rates \_\_\_\_\_
- A) Remain high; decrease rapidly
  - B) Fluctuate wildly; remain stable
  - C) Remain high; decrease slowly
  - D) Decrease rapidly; remain high

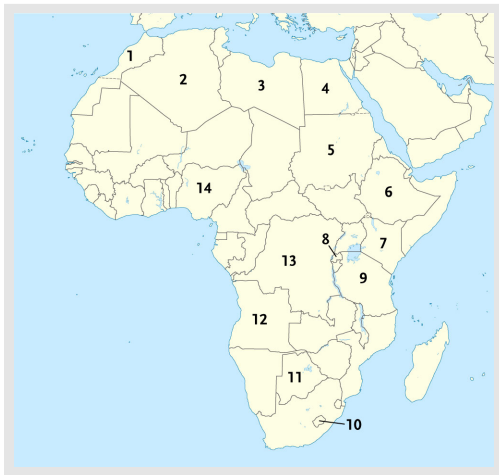
## Round 9: Map of Africa

Total: (     /10)

## Questions

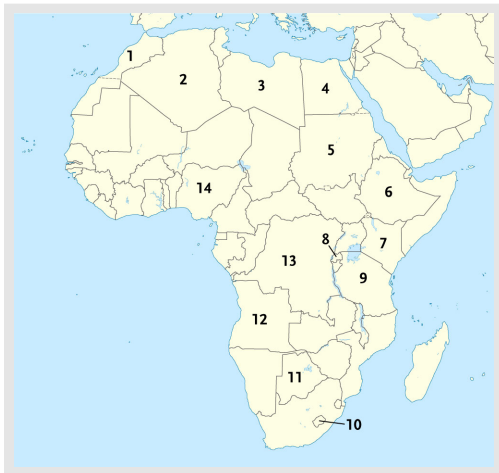
## Answers

1. Which country is home to Mt. Kilimanjaro and the Serengeti, which hosts the largest wildlife migration on Earth?



- A) 5
- B) 11
- C) 9
- D) 10

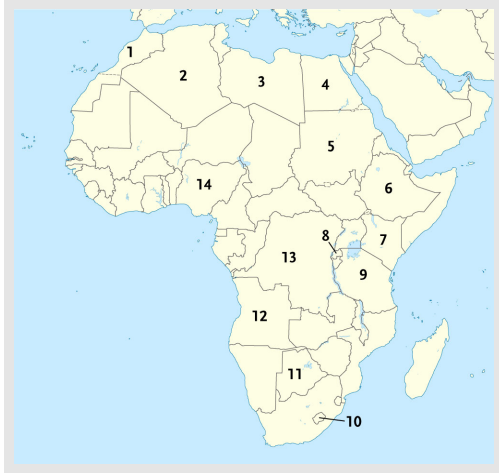
2. Which country experienced a genocide in 1994 that resulted from a conflict between the Tutsis and Hutus?



- A) 6
- B) 14
- C) 4
- D) 8

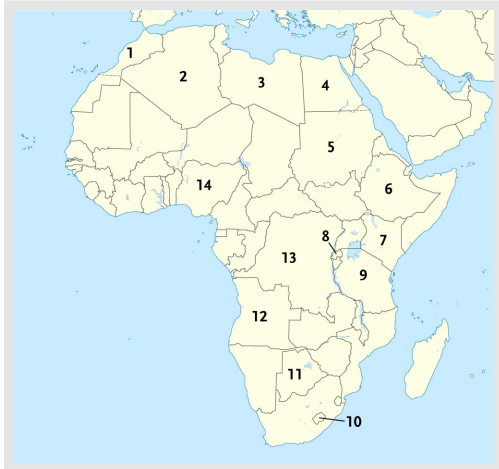
## CHALLENGE

3. Which country bordering the Red Sea has experienced civil war, an influx of refugees, and a loss of 75% of its oil reserves with the secession of its southern area? Its capital is Khartoum.



- A) 14  
B) 5  
C) 1  
D) 12

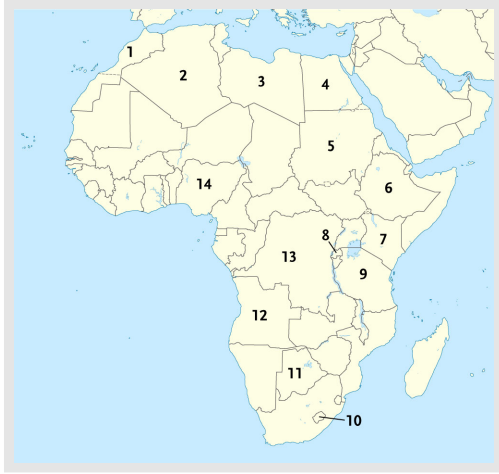
4. Which country is home to the pyramids at Giza and the Nile delta?



- A) 2  
B) 4  
C) 3  
D) 1

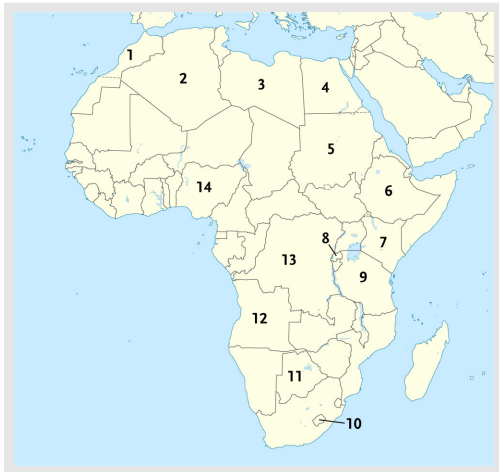
## CHALLENGE

5. Which country is home to the city of Nairobi?



- A) 7  
B) 14  
C) 2  
D) 4

6. Which country's capital is Kinshasa?

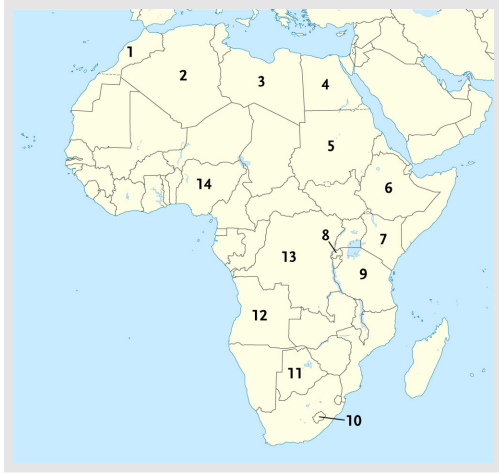


- A) 13  
B) 14  
C) 1  
D) 8



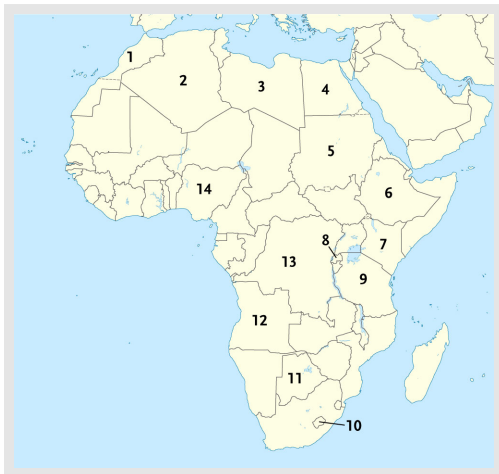
## CHALLENGE

7. Which country is the largest in area in Africa?



- A) 12
- B) 5
- C) 13
- D) 2

8. Which country is strategically located along the Strait of Gibraltar and is the only African nation to have both Atlantic and Mediterranean coastlines? Its capital is Rabat.



- A) 14
- B) 1
- C) 9
- D) 6

9. What is the most spoken language on the African continent?

- A) Arabic
- B) English
- C) Swahili
- D) French

## CHALLENGE

10. In which sector do most (65%) Africans work?

- A) Manufacturing
- B) Agriculture
- C) Service
- D) Resource Extraction