



Grade 7

# WORLD SCIENCE CHAMPIONSHIP 2024

Total Questions: 50

Total Marks: 50

Time: 1hr

Set: B

## General Instructions for the Examinee

### Opening Instructions:

Welcome to the world Maths Championship. Before we commence, please pay close attention to the following instructions:

- Electronic devices such as cell phones and MP3 players must be turned off.
- Do not share or exchange materials with other students.
- Unauthorized aids are strictly prohibited and its use can lead to disqualification.
- Calculators are not allowed for Grade 1-5
- Scientific Calculators are allowed for Grade 6-8
- Refrain from consulting notes, textbooks, teachers, or other students regarding the exam materials.

### Instructions for Filling Student Details in OMR Sheet and Signing the Attendance sheet:

*There will be a ten-minute break for students to fill in the details*

#### Filling Student Details:

- Please refer to the instructions at the back of the OMR sheet for proper completion your details. Ensure you darken circles completely. Questions

#### Signing Attendance sheet:

- Ensure you have signed the attendance sheet and OMR sheet provided.
- Invigilator should also sign your OMR sheet in the space provided.

marks - Total 35 marks.

- Grades 5 to 8: 50 questions of 1 mark each, there is no negative marking and if you skip/leave a question no marks will be given but also no marks will be deducted as -ve marks - Total 50 marks.

- Darken the circle corresponding to your chosen answer on the OMR sheet.
- that do not have the darker circle are considered unanswered and will be counted wrong.
- You have 60 minutes to complete the exam.
- Note that you can choose only one answer – if you mark another response, that question will be disqualified.
- If you finish before the time is up, raise your hand, and the invigilator will collect your sheet for scoring. When you are finished and your OMR Sheet is collected, please leave the room quietly.

### Instruction for Taking Examination:

- The question paper has been sealed by a reverse jacket. You have to cut on the right side to open the paper at the time of commencement of the examination. Check whether all the pages of the question paper are intact.
- This Examination is multiple-choice based, with either 4 options, 3 options or 2 options for each question.
- Each grade level has specific question formats and durations:
  - Grades 1 to 4: 35 questions of 1 mark each, there is no negative marking and if you skip/leave a question no marks will be given but also no marks will be deducted as -ve





*Thank you for your attention, and best of luck with the World Maths Championship!*

**Question: 1 of 50**

QID: 1663

Marks : 1

Select the beaker.

- A. 
- B. 
- C. 
- D. 

**Question: 4 of 50**

QID: 504

Marks : 1

The passage below describes an experiment. soda with carbon dioxide bubbles Jamie wanted to freeze soda to make popsicles. He knew that soda contains carbon dioxide gas, which forms bubbles as it escapes from the liquid. He wondered if the popsicles would freeze more quickly if he removed the carbon dioxide. Jamie took the lids off three small bottles of soda. He left the lids off overnight so that carbon dioxide could escape from the bottles. He kept the lids on three other bottles to keep the carbon dioxide in. The next morning, Jamie placed all six bottles in the freezer. After two hours, he checked whether soda in any of the bottles had frozen. In this experiment, which were part of a control group?



soda with carbon dioxide bubbles

- A. the bottles with lids kept on
- B. the bottles with lids taken off

**Question: 2 of 50**

QID: 1947

Marks : 1

Select the apron.

1. 
2. 
3. 

- A. 1
- B. 2
- C. 3

**Question: 5 of 50**

QID: 513

Marks : 1

People can use the engineering-design process to develop solutions to problems. One step in the process is testing if a potential solution meets the requirements of the design. The passage below describes how the engineering-design process was used to test a solution to a problem. Read the passage. Then answer the question below.

drone without blade guards Julia was designing small aircraft called drones to pick up items from warehouse shelves. She knew that the drones' propeller blades would get damaged if they bumped into anything while flying through the warehouse. So, Julia wanted to add blade guards to protect the propeller blades. The guards had to be sturdy so they would not break in a crash. But she thought that if the guards weighed too much, the drones would not fly well. So, Julia put guards made of lightweight metal on one drone. Then she observed how well the drone flew with the guards. Which of the following could Julia's test show? if the blade guards would break in a crash how much the drone weighed with the blade guards if adding the blade guards made the drone fly poorly



a drone without blade guards

- A. if the blade guards would break in a crash
- B. how much the drone weighed with the blade guards
- A. if adding the blade guards made the drone fly poorly

**Question: 3 of 50**

QID: 503

Marks : 1

The passage below describes an experiment. Cassie wanted to find ways to save water. She learned that people can reuse greywater, which is water that has been used in sinks, tubs, and washing machines. She wondered if her plants would be less healthy if she watered them with greywater instead of tap water. Cassie placed eight potted petunia plants on her windowsill. For three months, she watered four of the plants with greywater and the other four with tap water. At the end of three months, she counted the number of dead leaves on each plant. In this experiment, which were part of an experimental group?



- A. the plants watered with greywater
- B. the plants watered with tap water

**Question: 6 of 50**

QID: 855

Marks : 1

People can use the engineering-design process to develop solutions to problems. One step in the process is testing if a potential solution meets the requirements of the design. The passage below describes how the engineering-design process was used to test a solution to a problem. Read the passage. Then answer the question below.

studying an architect's design Patrick was a landscape architect who was hired to design a new city park. The city council wanted the park to have space for outdoor concerts and to have at least 20% of the park shaded by trees. Patrick thought the concert area should be at least 150 meters from the road so traffic noise didn't interrupt the music. He developed three possible designs for the park with the concert area in a different location in each design. Then, he tested each design by measuring the distance between the road and the concert area. Which of the following could Patrick's test show?

which design would have the greatest distance between the concert area and the road which design would have the least traffic noise in the concert area if at least 20% of the park would be shaded by trees in each design



studying an architect's design

- A. which design would have the greatest distance between the concert area and the road
- B. which design would have the least traffic noise in the concert area
- C. if at least 20% of the park would be shaded by trees in each design

**Question: 7 of 50**

QID: 1664

Marks : 1

A silver bracelet has a mass of 8grams and a volume of 0.8cubic centimetre. Calculate its density. Write your answer as a whole number.

- A. 64 grams per cubic centimeters
- B. 8.8 grams per cubic centimeters
- C. 10 grams per cubic centimeters
- D. 100 grams per cubic centimeters

**Question: 8 of 50**

QID: 1934

Marks : 1

gold earring has a mass of 4 gramsand a volume of 0.2 cubic centimeters. Calculate its density. Write your answer as a whole number. \_\_\_\_\_ gramspercubic centimeter

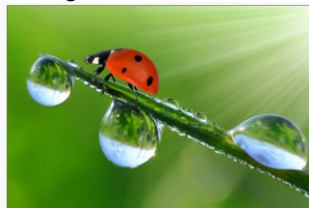
- A. 10
- B. 20
- C. 25
- D. 30

**Question: 9 of 50**

QID: 871

Marks : 1

Though they are too small to see without a special microscope, atoms make up all of the substances around you. Like all matter, atoms have mass and volume. But atoms are extremely small. A water droplet, like the one hanging from the tip of the leaf in this picture, contains more than a billion trillion atoms! Which of the following statements is true?



- A. Atoms do not have mass.
- B. Atoms can be seen with the naked eye.
- C. Atoms make up every substance around you.

**Question: 10 of 50**

QID: 1029

Marks : 1

Select the chemical formula for this molecule.



- A. ICl
- B. I2Cl
- C. ICl2
- D. I2Cl2

**Question: 11 of 50**

QID: 1038

Marks : 1

When a chemical reaction absorbs or releases thermal energy, the reaction causes a change in temperature. Read the passage about a chemical reaction that absorbs or releases thermal energy. Then, follow the instructions below. Dutch chocolate is a special type of chocolate that has a dark color and a mild flavor. It is made by treating chocolate with a solution of water and sodium hydroxide (NaOH). When sodium hydroxide dissolves in water, sodium ions (Na<sup>+</sup>)and hydroxide ions (OH<sup>-</sup>)form in the solution. During this process, chemical energy is converted to thermal energy, which flows into the surroundings. Complete the statement. During this chemical reaction, the solution becomes

- A. warmer
- B. colder

**Question: 12 of 50**

QID: 1039

Marks : 1

When a chemical reaction absorbs or releases thermal energy, the reaction causes a change in temperature. Read the passage about a chemical reaction that absorbs or releases thermal energy. Then, follow the instructions below. Sal ammoniac, a rare mineral made up of ammonium chloride (NH<sub>4</sub>Cl), is usually found near the vents of active volcanos. To collect samples of sal ammoniac, geologists must work when the weather is dry. If rainwater falls on the sal ammoniac, the mineral quickly dissolves to form a solution of ammonium ions (NH<sub>4</sub><sup>+</sup>) and chloride ions (Cl<sup>-</sup>). The process of forming the ions absorbs thermal energy from the surroundings and converts it to chemical energy. Complete the statement. During this chemical reaction, the solution becomes.

- A. warmer                       B. colder

**Question: 13 of 50**

QID: 1049

Marks : 1

A skydiver is moving downward with decreasing speed as her parachute opens. Which statement describes the skydiver's motion?

- A. the skydiver has a constant velocity                       B. the skydiver is accelerating

**Question: 14 of 50**

QID: 1050

Marks : 1

A rescue helicopter is moving directly upward at a constant speed. Which statement describes the helicopter's motion?

- A. The helicopter has a constant velocity.                       B. The helicopter is accelerating.

**Question: 15 of 50**

QID: 1059

Marks : 1

Read the text about an object in motion. Marco knocked a book off a bookshelf. The book fell to the ground. Complete the statement. Assume that the book's mass did not change. The gravitational potential energy stored between the book and Earth \_\_\_\_\_ as the book fell toward the ground.

- A. increased                       B. decreased  
 C. stayed the same

**Question: 16 of 50**

QID: 1060

Marks : 1

Read the text about an animal in motion. mole dug a path from its underground burrow directly to the surface of the ground above its burrow. Complete the statement. Assume that the mole's mass did not change. The gravitational potential energy stored between the mole and Earth \_\_\_\_\_ as the mole dug toward the surface.

- A. increased                       B. decreased  
 C. stayed the same

**Question: 17 of 50**

QID: 1133

Marks : 1

The images below show two pairs of magnets. The magnets in different pairs do not affect each other. All the magnets shown are made of the same material. Think about the magnetic force between the magnets in each pair. Which of the following statements is true?



- A. The magnitude of the magnetic force is smaller in Pair 1.                       B. The magnitude of the magnetic force is smaller in Pair 2  
 C. The magnitude of the magnetic force is the same in both pairs.

**Question: 18 of 50**

QID: 1134

Marks : 1

The images below show two pairs of magnets. The magnets in different pairs do not affect each other. All the magnets shown are made of the same material, but some of them are different shapes. Think about the magnetic force between the magnets in each pair. Which of the following statements is true?



- A. The magnitude of the magnetic force is smaller in Pair 1.                       B. The magnitude of the magnetic force is smaller in Pair 2  
 C. The magnitude of the magnetic force is the same in both pairs.

**Question: 19 of 50**

QID: 1218

Marks : 1

Two identical greenhouses were next to each other. There were solar panels on the roof of one greenhouse but not on the roof of the other greenhouse. This table shows how the temperature of each greenhouse changed over 2 hours. During this time, thermal energy was transferred from \_\_\_\_\_ to \_\_\_\_\_.

Greenhouse	Initial temperature (°C)	Final temperature (°C)
Greenhouse with no solar panels	8	21
Greenhouse with solar panels	8	20

- A. each greenhouse . . . the surroundings                       B. the surroundings . . . each greenhouse

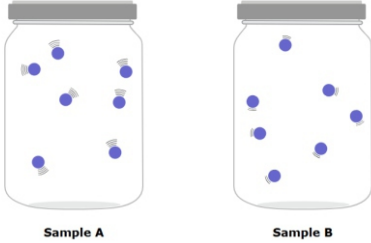
**Question: 20 of 50**

QID: 1219

Marks : 1

The diagrams below show two pure samples of gas in identical closed, rigid containers. Each colored ball represents one gas particle. Both samples have the same number of particles.

Sample A, Mass of each particle: 28u, Average particle speed: 1,300 m/s, Sample B, Mass of each particle: 28 u, Average particle speed: 1,100m/s, Compare the average kinetic energies of the particles in each sample. Which sample has the higher temperature?



- A. sample A       B. sample B

**Question: 21 of 50**

QID: 1665

Marks : 1

wave is a pattern of motion that carries energy. When a wave travels through a material, the material is called a medium. Maya is exercising with battle ropes. Energy from her arms is transferred to the ropes, creating waves. As a wave moves through each rope, the rope moves up and down. Select the true statements. 1. The waves carries energy. , 2. Maya's arm is the medium through which the wave travels , 3. Each rope moves side to side as the wave moves through it , 4. Maya transfers energy to the rope.



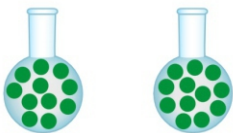
- A. 1 and 3       B. 2 and 4  
 C. 1,2 and 4       D. 1 and 4

**Question: 22 of 50**

QID: 1220

Marks : 1

The diagram below is a model of two solutions. Each green ball represents one particle of solute. Solvent volume: 50 mL Solvent volume: 50 mL, Solution A, Solution B Which solution has a higher concentration of green particles?



- A. solution A       B. solution B  
 C. neither; their concentrations are the same

**Question: 23 of 50**

QID: 1221

Marks : 1

This organism is *Polytrichum commune*. It is a member of the plant kingdom. *Polytrichum commune* is also called the common haircap moss. This plant gets its common name from its brown, cap-like structures. Those structures contain spores. After the spores are released, they can settle on the ground and grow into new mosses. Is *Polytrichum commune* made up of many cells?



- A. yes       B. no

**Question: 24 of 50**

QID: 1666

Marks : 1

Life on Earth comes in many forms, from microscopic bacteria to giant redwood trees. Despite their differences, all living things are made up of the same types of molecules. Many of these molecules contain carbon and are called organic compounds. There are four main groups of organic compounds found in cells. One of these groups is carbohydrates. Which of the following are the primary functions of carbohydrates? Select the two best choices.

1. to form the rigid cell wall in a plant cell , 2. to control chemical reactions , 3. to supply energy for a cell's immediate use , 4. to store the information needed for an organism's growth and development

- A. 2 and 3       B. 1 and 3  
 C. 3 and 4       D. 2 and 4

**Question: 25 of 50**

QID: 1222

Marks : 1

Select the part whose main job is to send proteins and other substances to different parts of the cell.

- A. chromosomes       B. mitochondria  
 C. golgo       D. vacuole

**Question: 26 of 50**

QID: 1668

Marks : 1

The human body is made of smaller parts organized to work together. In this way, the human body is like an orchestra. An orchestra is a large and organized group of musicians working together to make beautiful music. Each musician plays an instrument, like a violin or clarinet. Musicians who play similar instruments are organized into sections, such as strings or woodwinds. Each section produces a unique sound. When the sections play together in harmony, they produce dynamic music. Just like an orchestra is made up of many musicians, the human body is made up of many cells. Each cell has a specific job. Cells that do similar jobs are organized into tissues. Tissues are organized into organs, and organs are organized into organ systems. Together, organ systems carry out the functions of life in the human body.

1. Select the true statements.
2. Tissues that do similar jobs are organized into cells.
3. Organs are made of tissues.
4. All cells in the human body do the same job.
5. The human body is made up of smaller parts working together.

- A. 2 and 4  
 C. 1 and 3

- B. 3 and 4  
 D. 1 and 4

**Question: 28 of 50**

QID: 1667

Marks : 1

Animals often behave in certain ways that can increase their reproductive success. Read the passage about a specific animal behavior. Then, follow the instructions below. African lions live in groups called prides. In a pride, female lions, or lionesses, may give birth to cubs around the same time. When this happens, the lionesses help raise each other's cubs. The lionesses work together to feed and protect all the cubs for about two years. Lionesses have to protect their cubs from male lions that are not part of their pride. These male lions may attack and kill the cubs to try to take over the pride. When a pride has multiple lionesses, the cubs are less likely to be killed in an attack. When a pride has only one lioness, the cubs are more likely to be killed. Why might raising cubs with other lionesses in a pride increase an African lioness's reproductive success? Complete the claim below that answers this question and is best supported by the passage. Raising cubs with other lioness in a pride increases the chances that \_\_\_\_\_

- A. the lioness's will be around other cubs  
 B. the lioness's cubs will survive attacks  
 C. the lioness will feed the cubs of other lioness

**Question: 27 of 50**

QID: 1223

Marks : 1

Read the description of a trait. Cassie can play the cello.

What information supports the conclusion that Cassie acquired this trait?

- A. Cassie knows how to polish her cello.  
 B. Cassie learned how to play the cello in music class.  
 C. Cassie and her father play the cello together.

**Question: 29 of 50**

QID: 1670

Marks : 1

This picture shows a fossil of an animal called Holophagus. Holophagus lived in the ocean and gave birth to live young. Which traits did Holophagus have? Select the traits you can observe on the fossil. 1. long legs, 2. a tail fin, 3. two fins on its back, 4. a large lump on its head



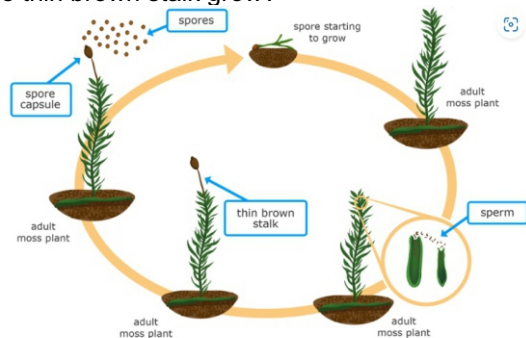
- A. 1 and 4  
 B. 2 and 3  
 C. 2 and 4  
 D. 1 and 3

**Question: 30 of 50**

QID: 1224

Marks : 1

This diagram shows the life cycle of a moss. Where does the thin brown stalk grow?



- A. on top of the female part  
 B. on top of the male part

**Question: 31 of 50**

QID: 1671

Marks : 1

Plants, animals, and all other organisms need energy from food to live and grow. How do organisms get energy from food? Inside an organism's cells, food molecules are broken down and rearranged through chemical reactions. The reactions release chemical energy that the cells can use to power growth and other important cell processes. These processes allow the entire organism to live and grow. Select all the true statements.

1. Molecules from food can provide energy
2. Chemical energy can be used for cell growth
3. Animals need food, but plants don't.

- A. 1 and 2                       B. 1 and 3  
 C. 2 and 3                       D. 1,2 and 3

**Question: 32 of 50**

QID: 1225

Marks : 1

Read the passage. Then answer the question below. cushion sea star in a seagrass bed Seagrass beds in Cuba are made up of several species of marine grasses, including turtle grass, manatee grass, and star grass. Seagrasses are flowering plants that have roots and leaves. The roots help to anchor these plants in the sand. The roots also absorb and store nutrients. Seagrass beds are home to invertebrate species including the cushion sea star and the Queen conch snail. Many fish species, such as the French grunt, live in seagrass beds as juveniles. As adults, French grunts migrate to live on nearby coral reefs. Which of the following best describes an ecosystem in a seagrass bed in Cuba?



a cushion sea star in a seagrass bed

- A. a school of French grunts                       B. the queen conch and the manatee grass  
 C. the turtle grass, the sand, and the cushion sea stars

**Question: 33 of 50**

QID: 1335

Marks : 1

Read the passage. Then answer the question. a flea holding onto a dog's hair Fleas are small insects that can feed on the blood of mammals, including dogs. A flea uses its specialized mouth to pierce a dog's skin and suck the dog's blood. The flea can drink up to 15 times its body weight in blood each day! When the flea feeds on the dog's blood, the saliva from the flea's mouth can irritate the dog's skin. Sometimes the flea can also transmit, or pass, diseases to the dog. Which type of relationship is formed when a flea feeds on a dog's blood?



a flea holding onto a dog's hair

- A. commensal                       B. mutualistic  
 C. parasitic

**Question: 34 of 50**

QID: 1731

Marks : 1

tropical coral reef is a type of ecosystem in the ocean. Tropical coral reefs are found in warm, shallow water near the equator. They have many large formations called corals. Corals may look like rocks or plants, but they are actually structures made up of living animals and can grow over time.

Corals provide shelter for fish, crabs, eels, and many other organisms. These coral reef organisms are prey for larger animals, such as sea turtles, sharks, and dolphins. Most of these organisms need tropical coral reefs in order to survive and reproduce. Which of the following are characteristics of tropical coral reefs? Select all that apply.

1. They are usually found in deep ocean
2. They are used by many different organisms
3. They have many large rocks called corals
4. They have warm salty water



a tropical coral reef



several types of corals

- A. 1 and 2                       B. 2 and 4  
 C. 1,2 and 4

**Question: 35 of 50**

QID: 1336

Marks : 1

The biosphere contains all the living organisms of the planet. State whether true or false.

- A. true                       B. false

**Question: 36 of 50**

QID: 1837

Marks : 1

Is the following statement true or false? The hydrosphere includes all of Earth's water.

- A. true                       B. false

**Question: 37 of 50**

QID: 1838

Marks : 1

What is evaporation?

- A. Evaporation is a type of vaporization that occurs on the surface of a liquid as it changes into the gas phase.                       B. Evaporation is a type of vaporization that occurs on the surface of a solid as it changes into the gas phase.

**Question: 38 of 50**

QID: 1356

Marks : 1

How long is an adult great white shark? Select the best estimate.

- A. 6 yards                       B. 6 inches  
 C. 6 miles                       D. 6 feet

**Question: 39 of 50**

QID: 1578

Marks : 1

How long is a basketball court? Select the best estimate.

- A. 29 miles                       B. 29 yards  
 C. 29 feet                       D. 29 inches

**Question: 40 of 50**

QID: 1339

Marks : 1

Corundum has the following properties: not made by living things pure substance, found in nature solid ,very hard, fixed crystal structure, Is corundum a mineral or a rock?



- A. mineral                       B. rock

**Question: 41 of 50**

QID: 1787

Marks : 1

Obsidian has the following properties: **no fixed crystal structure glassy texture, naturally occurring, not a pure substance solid, not made by organisms**, Is obsidian a mineral or a rock?

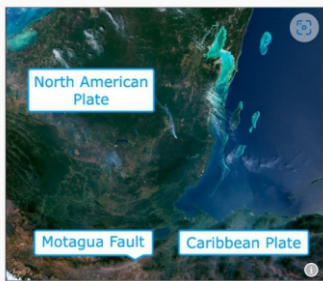
- A. rock                               B. mineral

**Question: 42 of 50**

QID: 1340

Marks : 1

Read the passage and look at the picture. The Motagua Fault cuts across Guatemala, marking the boundary between the North American Plate and the Caribbean Plate. The two plates slide past each other along this fault, moving at a rate of about 20 millimeters per year. In February of 1976, the plates along the Motagua Fault moved suddenly, causing a magnitude 7.5 earthquake. The earthquake made a visible crack in the ground that was over 160 kilometers long! Complete the sentence. The Motagua Fault is formed at \_\_\_\_\_ a boundary.



- A. convergent                       B. divergent  
 C. transform

**Question: 43 of 50**

QID: 1867

Marks : 1

How many layers are there in the earth's surface?

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

**Question: 44 of 50**

QID: 1353

Marks : 1

Use the data to answer the question below. Is the following statement about our solar system true or false? Of the four largest planets, three are made mainly of gas.

Planet	Volume (billions of km <sup>3</sup> )	Primary composition
Mercury	60	rock
Venus	930	rock
Earth	1,090	rock
Mars	160	rock
Jupiter	1,431,280	gas
Saturn	827,130	gas
Uranus	68,330	ice
Neptune	62,530	ice

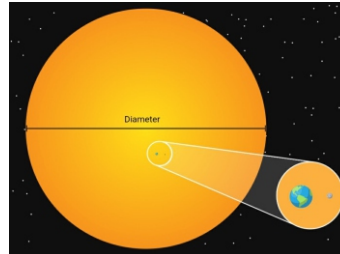
- A. true                                       B. false

**Question: 45 of 50**

QID: 1588

Marks : 1

Our solar system is made up of the Sun and all the objects that move around it. These objects include planets, moons, asteroids, and comets. The sizes of the objects in the solar system are difficult to imagine without the help of a model. Models make certain characteristics of a system easier to understand. A model can be a physical object, a graph, a diagram, or a simulation. The diagram below is a model that shows the relative sizes of the Sun, the Moon, and Earth. The two small dots represent the accurate sizes of Earth and the Moon compared to the Sun. A close-up view of Earth and the Moon is also shown. Complete the sentence to estimate the diameter of the Sun compared to Earth. The Sun's diameter is \_\_\_\_\_ times greater than the earth's diameter.

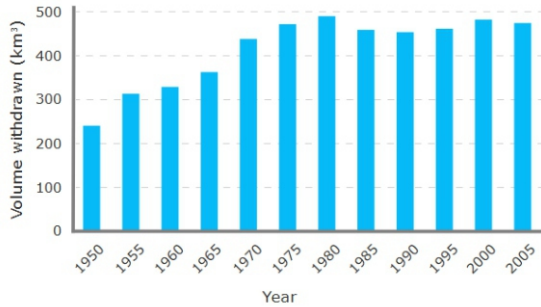


- A. 100                                       B. 10  
 C. 3



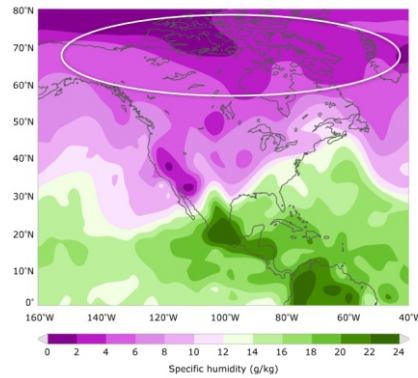
Fresh water is a natural resource that humans use every day. Fresh water has many uses, including drinking, cleaning, taking care of livestock, irrigating farms, and generating electricity. Since 1950, the United States Geological Survey (USGS) has tracked the volume of fresh water used in the United States. The graph below shows the volume of fresh water withdrawn, or taken by humans for any use, in a given year. The data were collected every five years, starting in 1950 and ending in 2005. Select the statement that is supported by the data.

**Volume of fresh water withdrawn per year in the U.S.**



- A. The volume of fresh water withdrawn per year increased steadily until 1980.
- B. The volume of fresh water withdrawn per year increased every five years between 1950 and 2005.

The map below shows humidity in the lower atmosphere on October 17, 2013. The map shows specific humidity, a measurement of the amount of water vapor in the air. The outlined area shows an air mass that influenced weather in North America on that day. Look at the map. Then, answer the question below. Data source: United States National Oceanic and Atmospheric Administration/Earth System Research Laboratory, Physical Sciences Division. Which specific humidity level was measured within the outlined area shown?



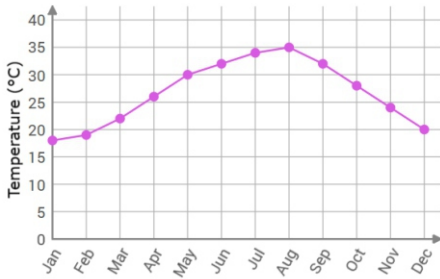
- A. 4 grams of water vapor per kilogram of air
- B. 9 grams of water vapor per kilogram of air
- C. 12 grams of water vapor per kilogram of air

People get fresh water from different sources. Two of the most common sources of fresh water are surface water and groundwater. Surface water is found on the surface of Earth in lakes, rivers, and streams. Groundwater is located deep underground in rock layers called aquifers. To withdraw groundwater from aquifers, people must pump it out of the ground through wells. Despite this challenge, groundwater is a more reliable source of water than surface water in some regions. For example, rivers, lakes, and other sources of surface water can dry up during a drought. But even during a drought, groundwater is often still available. Which statement correctly explains why people use groundwater as a source of fresh water?

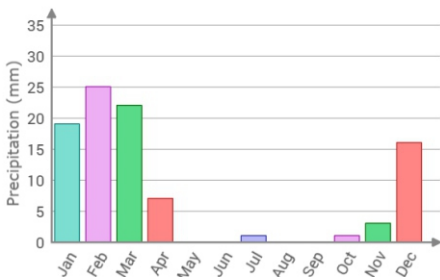
- A. In some environments, groundwater is the most reliable source of fresh water.
- B. Groundwater is located below the surface of Earth, so the water is easy to withdraw.

Dubai, United Arab Emirates, is a city in Asia. It is located in the Northern Hemisphere. It has a dry arid climate. Average precipitation in Dubai, United Arab Emirates Which statement best describes the climate of Dubai? Hint: Summers in the Northern Hemisphere occur in June, July, and August. Winters in the Northern Hemisphere occur in December, January, and February.

Average temperature in Dubai, United Arab Emirates



Average precipitation in Dubai, United Arab Emirates



- A. Summers have less precipitation and lower temperatures than winters on average
- B. Summers have higher temperatures and less precipitation than winters on average.
- C. Summers are wetter and temperatures stay about the same throughout the year.

natural hazard is an event that occurs naturally and can harm people or the environment. There are many types of natural hazards. To help people plan for the damage natural hazards can cause, scientists make maps to show where and how often these events happen. For example, the map below shows data about tornadoes in the United States. Tornadoes are large columns of rotating air that can form during thunderstorms. Strong tornadoes have high wind speeds and can cause severe damage. Complete the statement. This map does not show \_\_\_\_\_ of strong tornadoes in each region of the United States between 1950 and 1998. Instead, it shows \_\_\_\_\_ of strong tornadoes in each region.

- A. the exact number, a range of number
- B. a range of the exact number

--- END OF QUESTION PAPER ---