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| If Greenland were named for its true color most of the time, it would be called | a. Blueland  
b. Redland  
c. Whiteland  
d. Yellowland |
| How many sides does a snowflake have?                                   | a. Three  
b. Four  
c. Five  
d. Six |
| In Earth's atmosphere, air moving from a high pressure area to a low pressure area is the cause of | a. Wind  
b. Rain  
c. Hail  
d. Blue sky |
| The World Meteorological Organization gives men's and women's names to this type of storm: | a. Blizzards  
b. Hurricanes  
c. Tornadoes  
d. Thunder storms |
| In this weather event, a cloud sends a rapidly rotating column of air down to the ground. | a. Hurricane  
b. Dust devil  
c. Blizzard  
d. Tornado |
| Hurricanes form over the ocean. Which city is most likely to be in the path of a hurricane: | a. Miami, Florida  
b. St. Louis, Missouri  
c. Paris, France  
d. Oklahoma City, Oklahoma |
| A shelter made of ice built by the Inuit people in Greenland is called | a. a condo  
b. a tee pee  
c. a yurt  
d. an igloo |
| When pieces of ice fall from the clouds, we call it | a. rain  
b. hail  
c. fallout  
d. frost |
| Which of the following carries instruments that take pictures of Earth's weather from space? | a. Airplane  
b. Satellite  
c. Meteor  
d. Truck |
| The center of a hurricane is called its | a. eye  
b. nose  
c. navel  
d. hub |
| In which of these places is it most likely to snow in December? | a. Bismarck, North Dakota  
b. Los Angeles, California  
c. Sydney, Australia  
d. Nairobi, Kenya |
| Visible air pollution is often called | a. Fog  
b. Wind  
c. Smog  
d. Clouds |
| The places on Earth that are very hot and dry are called | a. Deserts  
b. Forests  
c. Mountains  
d. Swamps |
| The blanket of air around Earth is called the | a. Ocean  
b. Atmosphere  
c. Thunder  
d. Coastline |
| Clouds are made of air and | a. Milk  
b. Sugar  
c. Smoke  
d. Water |
| Lightning is | a. Electricity  
b. Water  
c. String  
d. Hail |
| Thunder is the sound of | a. Clouds banging together  
b. Lightning heating the air  
c. Earthquakes  
d. Hail stones banging together |
| What acts like a big blanket over the earth, holding in the warmth and reflecting it back to earth? | a. The atmosphere  
b. The sea ice  
c. The oceans  
d. The forests |
| What are we likely to see curving across the sky when the Sun comes out in the late afternoon after a rain storm? | a. A flock of geese  
b. A rainbow  
c. A cumulonimbus cloud  
d. A bolt of lightning |
| If you could look at Earth from above the North Pole in winter, you would think Earth was | a. Blue  
b. White  
c. Green  
d. Brown |
<p>| True or False:                                                           |                                                                         |
| The Caribbean Sea is north of the equator.                              |                                                                         |
| Bombay, India, lies on which sea?                                        |                                                                         |
| Which is farthest north?                                                |                                                                         |
| Which is farthest north?                                                |                                                                         |
| Which is farthest north?                                                |                                                                         |</p>
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<th>Question</th>
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<tr>
<td><strong>Which is farthest south?</strong></td>
<td>a. Sydney, Australia&lt;br&gt;b. Rio de Janeiro, Brazil&lt;br&gt;c. Nairobi, Kenya&lt;br&gt;d. Hilo, Hawaii</td>
<td><strong>True or False:</strong>&lt;br&gt;The Black Sea lies north of the eastern Mediterranean Sea.</td>
<td>a. December&lt;br&gt;b. October&lt;br&gt;c. June&lt;br&gt;d. March</td>
<td><strong>True or False:</strong>&lt;br&gt;The United States of America is in the continent of North America.</td>
<td>a. Freeze&lt;br&gt;b. Boils&lt;br&gt;c. Condenses&lt;br&gt;d. Turns to a solid</td>
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<td><strong>True or False:</strong></td>
<td><strong>True or False:</strong>&lt;br&gt;The equator passes through Europe and North America.</td>
<td><strong>True or False:</strong>&lt;br&gt;Norway is east of Sweden.</td>
<td>a. December&lt;br&gt;b. October&lt;br&gt;c. June&lt;br&gt;d. March</td>
<td><strong>True or False:</strong>&lt;br&gt;The United States of America is bordered by just two countries.</td>
<td>a. Freeze&lt;br&gt;b. Boils&lt;br&gt;c. Condenses&lt;br&gt;d. Turns to a solid</td>
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<td><strong>True or False:</strong></td>
<td><strong>True or False:</strong>&lt;br&gt;The Hawaiian Islands are south of the equator.</td>
<td><strong>True or False:</strong>&lt;br&gt;In the United States of America, the days are shortest (fewest hours of sunlight) during</td>
<td>a. December&lt;br&gt;b. October&lt;br&gt;c. June&lt;br&gt;d. March</td>
<td><strong>True or False:</strong>&lt;br&gt;A weather forecast for one week from now is more likely to be accurate than a forecast for tomorrow.</td>
<td>a. Freeze&lt;br&gt;b. Boils&lt;br&gt;c. Condenses&lt;br&gt;d. Turns to a solid</td>
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<td><strong>True or False:</strong></td>
<td><strong>True or False:</strong>&lt;br&gt;In the United States of America, the days are longest (most hours of sunlight) during</td>
<td><strong>True or False:</strong>&lt;br&gt;At sea level and at a temperature of 212°F, water</td>
<td>a. December&lt;br&gt;b. October&lt;br&gt;c. June&lt;br&gt;d. March</td>
<td><strong>True or False:</strong>&lt;br&gt;A slowly flowing river of ice is called</td>
<td>a. An iceberg&lt;br&gt;b. A glacier&lt;br&gt;c. An icicle&lt;br&gt;d. An igloo</td>
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<td><strong>True or False:</strong></td>
<td>Sri Lanka is an island just south of Japan.</td>
<td><strong>True or False:</strong>&lt;br&gt;Each year, December 21 is one day the Sun never comes up in this location:</td>
<td>a. Florida&lt;br&gt;b. San Francisco&lt;br&gt;c. Bolivia&lt;br&gt;d. North Pole</td>
<td><strong>True or False:</strong>&lt;br&gt;Which one of the following conditions is unlikely to happen to someone because of very cold weather:</td>
<td>a. Frostbite&lt;br&gt;b. Hypothermia&lt;br&gt;c. Shivering&lt;br&gt;d. Freckles</td>
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<td><strong>True or False:</strong></td>
<td>a. Galveston, Texas&lt;br&gt;b. Omaha, Nebraska&lt;br&gt;c. Portland, Oregon&lt;br&gt;d. Phoenix, Arizona</td>
<td><strong>True or False:</strong>&lt;br&gt;In December, the North Pole is tilted away from the Sun.</td>
<td><strong>True or False:</strong>&lt;br&gt;The hottest day ever recorded in the Western Hemisphere was in Death Valley, California, on July 10, 1913, when the temperature reached</td>
<td><strong>True or False:</strong>&lt;br&gt;Because Earth is tilted on its axis of rotation, when it's baking in Boise, Idaho, in July it's mild and cool in</td>
<td>a. Run into a building&lt;br&gt;b. Hop into a parked car&lt;br&gt;c. Run and hug an isolated tree on a hill&lt;br&gt;d. Crouch on the ground in a ditch</td>
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<td><strong>True or False:</strong></td>
<td>a. Sunburns&lt;br&gt;b. Arthritis&lt;br&gt;c. Skin cancer&lt;br&gt;d. Wrinkling</td>
<td><strong>True or False:</strong>&lt;br&gt;Too much exposure to ultraviolet (UV) light from the Sun causes all of these problems to humans EXCEPT</td>
<td><strong>True or False:</strong>&lt;br&gt;<strong>EXCEPT</strong>&lt;br&gt;a. Sunburns&lt;br&gt;b. Arthritis&lt;br&gt;c. Skin cancer&lt;br&gt;d. Wrinkling</td>
<td><strong>True or False:</strong>&lt;br&gt;<strong>EXCEPT</strong>&lt;br&gt;a. Sunburns&lt;br&gt;b. Arthritis&lt;br&gt;c. Skin cancer&lt;br&gt;d. Wrinkling</td>
<td><strong>True or False:</strong>&lt;br&gt;<strong>EXCEPT</strong>&lt;br&gt;a. Sunburns&lt;br&gt;b. Arthritis&lt;br&gt;c. Skin cancer&lt;br&gt;d. Wrinkling</td>
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**Notes:**
- **True or False** questions are marked with a simple *True* or *False* response.
- For multiple-choice questions, the options are listed after each question.
- Some questions include a more detailed context or scenario to guide the response.
- The table format helps organize the information clearly and concisely.
<table>
<thead>
<tr>
<th>Question</th>
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<td>When a very intense thunderstorm stalls over one area for a long time, the result can be</td>
<td>a. Drought b. Flash floods c. Tsunamis d. Menopause</td>
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<td>Water's three phases are</td>
<td>a. Ice, liquid water, and water vapor b. Rain, snow, and hail c. Dry, damp, and wet d. Infancy, childhood, and adolescence</td>
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<td>Of the following cities, which gets the least annual rainfall?</td>
<td>a. Philadelphia, Pennsylvania b. Phoenix, Arizona c. Honolulu, Hawaii d. Las Vegas, Nevada</td>
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<td>The high-altitude, high-speed jet stream that blows from west to east across the U.S. is used</td>
<td>a. By Canadian geese b. By airplanes heading east to fly faster and save fuel c. By the salmon bird heading for the west coast to spawn d. By weather forecasters to predict tornadoes</td>
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<td>Named because of its similarity to a battlefield, the area where air masses clash is called a</td>
<td>a. High b. Low c. Front d. Storm</td>
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<td>An instrument that measures atmospheric pressure is called a</td>
<td>a. Thermometer b. Barometer c. Odometer d. Spectrometer</td>
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<td>If you see lightning and 5 seconds later you hear thunder, the lightning has struck the ground</td>
<td>a. 1.6 kilometers (1 mile) away b. 8 kilometers (5 miles) away c. 15 meters (about 50 feet) away d. 80 kilometers (50 miles) away</td>
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<td>The images of clouds and storms over the U.S. that are shown on TV weather reports are usually made by</td>
<td>a. Cameras on airplanes b. Space Shuttle c. International Space Station d. Geostationary Operational Environmental Satellites (GOES)</td>
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<td>A hurricane's size and movement can best be seen from</td>
<td>a. A ship in the ocean near the eye of the hurricane b. A plane flying through the hurricane c. Geostationary Operational Environmental Satellites (GOES) d. Clinging to a tree as the hurricane blows past</td>
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<td>A scientist who studies weather is called a</td>
<td>a. Geologist b. Biologist c. Meteorologist d. Astrologer</td>
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<td>The tilt of Earth's axis of rotation is the reason for</td>
<td>a. Wind b. Blue sky c. Ocean waves d. Seasons</td>
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<td>True or false:</td>
<td>Lightning kills more people each year than tornadoes and hurricanes combined.</td>
<td>True</td>
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<td>When the temperature outside drops below 32° Fahrenheit or 0° Celsius, something special happens. What is it?</td>
<td>a. Water turns into steam. b. Wind stops blowing c. Tulips bloom d. Liquid water turns into solid ice</td>
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<td>The amount of water in the air is called</td>
<td>a. Salinity b. Humidity c. Evaporation d. Condensation</td>
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<td>A thermometer measures</td>
<td>a. Air pollution b. Wind direction c. Temperature d. Rainfall</td>
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<td>In January, it is winter in Earth's</td>
<td>a. Northern Hemisphere b. Southern Hemisphere c. Eastern Hemisphere d. Western Hemisphere</td>
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<td>In June, the Sun never sets on</td>
<td>a. The South Pole b. The equator c. Washington, D.C. d. The North Pole</td>
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<td>The two Polar-orbiting Operational Environmental Satellites (POES)</td>
<td>perform the following services:</td>
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<td>Frozen raindrops tossed around inside a cloud, are coated with water, then frozen again, and finally get too heavy and fall to the ground as</td>
<td>a. Rain b. Snow c. Hail d. Frost</td>
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<td>Which of these bodies of water does not touch the United States of America?</td>
<td>a. Gulf of Mexico b. Gulf of Alaska c. Black Sea d. North Pacific Ocean</td>
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<td>Which of these is the largest body of water?</td>
<td>a. North Atlantic Ocean b. South Pacific Ocean c. Indian Ocean d. Caspian Sea</td>
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<td>The Sun rises in the east (except very close to the North and South Poles) because</td>
<td>a. Earth rotates from west to east b. Earth rotates from east to west c. The Sun moves around Earth from east to west d. The Moon sets in the west</td>
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<td>Which of these countries is closest to the United States?</td>
<td>a. Jamaica b. Greenland c. Iceland d. Cuba</td>
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<td>Where and in what direction do the trade winds blow?</td>
<td>a. Along the equator, from west to east b. Along the equator, from east to west c. Near the North and South Poles, from east to west d. In the South Pacific Ocean, counterclockwise.</td>
<td>True</td>
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<tr>
<td>True or False:</td>
<td>The Doldrums form along the equator.</td>
<td>True</td>
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| Which direction do the prevailing westerlies blow?                      | a. West to east  
  b. East to west  
  c. Along the equator  
  d. From the North Pole to the South Pole |
| The polar easterlies blow from                                           | Anemometer measures                                                                        |
| a. From west to east                                                    | a. Air pressure  
  b. Wind speed  
  c. Temperature  
  d. Rainfall |
| b. From east to west                                                    | For you to see a rainbow, the Sun must be                                                  |
| c. From southeast to northwest.                                         | a. Setting  
  b. Overhead  
  c. Behind you  
  d. In front of you |
| d. From north to south                                                  | Water freezes at what temperature?                                                         |
|                                                                         | a. 0°F  
  b. 32°F  
  c. 12°C  
  d. 100°C |
| True or False:                                                          | A continent-sized blast of icy cold air coming from the Arctic that can rapidly chill much of the United States is called a |
| In January, Earth is farthest from the Sun.                            | a. Polar surge  
  b. Polar blast  
  c. Typhoon  
  d. Tornado |
|                                                                         | What if all the glaciers and ice sheets in the world were to melt?                          |
|                                                                         | a. Temperatures around the globe would be colder.  
  b. There would be less rain.  
  c. Most coastal cities would be under water.  
  d. There would be fewer rainbows. |
|                                                                         | What is the highest temperature ever recorded in Fairbanks, Alaska?                         |
|                                                                         | a. 10°C (50°F)  
  b. 38°C (100°F)  
  c. 27°C (80°F)  
  d. 18°C (65°F) |
|                                                                         | Because Earth is tilted on its axis of rotation, which of these cities is least likely to have a white Christmas? |
|                                                                         | a. Moscow, Russia  
  b. Butte, Montana  
  c. Beijing, China  
  d. Capetown, South Africa |
| Which of these reflects more of the Sun's energy back into space?        | How does hot weather affect airplanes taking off?                                           |
| a. Clouds                                                               | All the energy for making storms starts out from:                                          |
| b. Forest                                                              | a. The oceans  
  b. Earth's rotation  
  c. The Sun  
  d. Earth's hot core |
| c. Ocean                                                               | Which of the following U.S. cities get the most annual rainfall?                           |
| d. Farmland                                                            | a. Pensacola, Florida  
  b. Portland, Oregon  
  c. Annette, Alaska  
  d. Hilo, Hawaii |
| Tornadoes cause all of the following types of damage EXCEPT             | When cold winds blowing from the north and hot, humid winds blowing from the south meet over the plains in the middle of the U.S., which of the following weather is likely to result: |
| a. Roof's torn off buildings                                           | a. Hurricanes  
  b. Blizzards  
  c. Drought  
  d. Tornadoes |
| b. Collapsed walls of buildings                                        | The temperature at the surface of the Sun is about 6,100°F (11,000°F). The temperature of a lightning bolt is about a. 27,760°F (50,000°F)  
  b. 2,760°F (5,000°F)  
  c. 260°F (500°F)  
  d. 100°F (212°F) |
| c. Flying debris                                                       | Which country has the wildest weather—that is, the greatest variety of extreme weather conditions in the world? |
| d. Storm surges                                                        | a. Antarctica  
  b. United States  
  c. England  
  d. Cuba |
| If all the ice covering Greenland and the other smaller ice caps around the arctic (North Pole) were to melt, sea level around the world would rise by | The National Weather Service is operated by which government agency?                        |
|                                                                         | a. Central Intelligence Agency  
  b. National Aeronautics and Space Administration  
  c. National Oceanic and Atmospheric Administration  
  d. National Park Service |
|                                                                         | If it is 30°F outside, and the wind is blowing 30 miles per hour, how cold will it feel to you outside? |
|                                                                         | a. 45°F  
  b. 1°F  
  c. 70°F  
  d. 15°F |
|                                                                         | Saucer-shaped clouds that sometimes form over mountains and have been mistaken for UFOs are called |
|                                                                         | a. Cumulus clouds  
  b. Stratus clouds  
  c. Lenticular clouds  
  d. Cumulonimbus clouds |
|                                                                         | Beautiful dancing curtains of colored light called the aurora can sometimes be seen in the night skies near |
|                                                                         | a. The equator  
  b. Walt Disney World, Florida  
  c. Los Angeles, California  
  d. The North and South Poles |
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<td>Water vapor will condense from air when the air is</td>
<td>a. Saturated b. Dry c. Humid d. Cold</td>
<td>The boundary between two different air masses is called a</td>
<td>a. Isobar b. Isotherm c. Air mass d. Front</td>
<td>In experiments called cloud seeding, what material have humans have</td>
<td>a. Silver iodide particles b. Sand c. Glass beads d. Dust</td>
</tr>
<tr>
<td>The orbit of the newest Polar-orbiting Operational Environmental Satellite (POES) is at what altitude above Earth's surface?</td>
<td>a. About 5,080 km (3156 miles) b. About 870 km (540 miles) c. About 70 km (43 miles) d. About 2,550 km (1584 miles)</td>
<td>If the actual amount of water vapor in the air remains the same, but the temperature of the air goes up, the relative humidity will</td>
<td>a. Go up b. Go down c. Stay the same d. Evaporate</td>
<td>True or False: Latitude has much more affect on climate than does longitude.</td>
<td>True or False: Dallas, Texas, at latitude 33°N, get less solar radiation than does San Francisco at latitude 37°N.</td>
</tr>
<tr>
<td>True or False: The windward side of a mountain range generally gets more rain than does the leeward side.</td>
<td>True</td>
<td>True or False: How fast must the winds be blowing inside a tropical storm for it to be &quot;upgraded&quot; to a hurricane?</td>
<td>a. 60°N b. 90° c. 30°S d. 0°</td>
<td>True or False: The GOES satellites keep an eye on the weather from their geostationary orbits, which are at an altitude of how many miles above the equator?</td>
<td>a. 200 miles b. 22,300 miles c. 1,500 miles d. 950 miles</td>
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<td>The main greenhouse gas in our atmosphere is</td>
<td>a. Helium b. Hydrogen c. Oxygen d. Carbon dioxide</td>
<td>The latitude that receives the most direct rays of the sun year-round is</td>
<td>a. 60°N b. 90° c. 30°S d. 0°</td>
<td></td>
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