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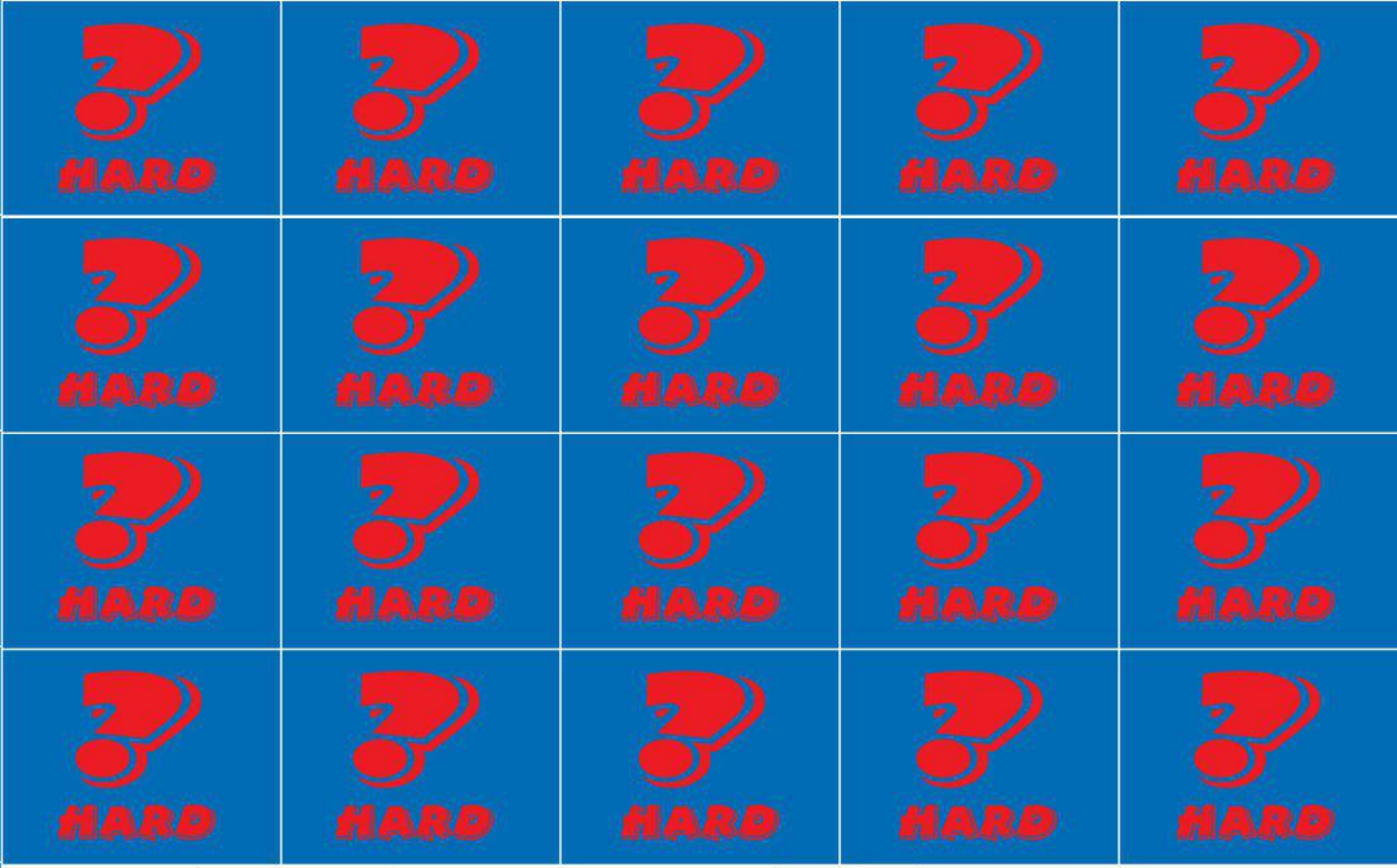
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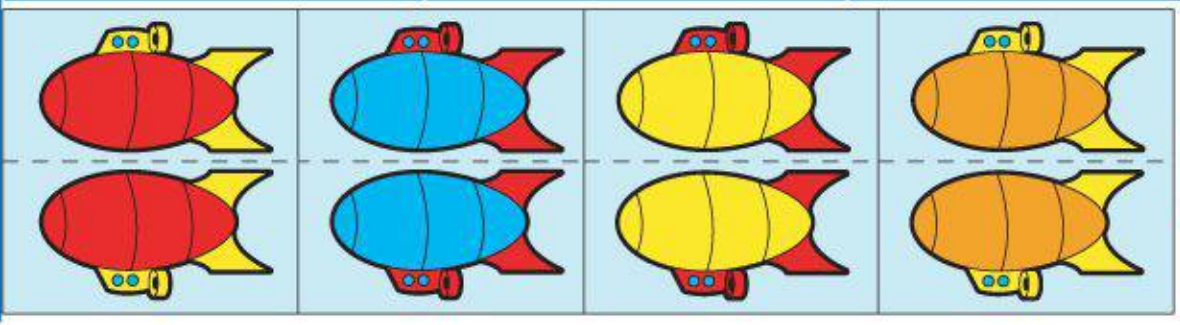

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If Greenland were named for its true color most of the time, it would be called a. Blueland b. Redland ***c. Whiteland*** d. Yellowland	How many sides does a snowflake have? a. Three b. Four c. Five ***d. Six***	In Earth's atmosphere, air moving from 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
True or False: The Caribbean Sea is north of the equator. ***True***	Bombay, India, lies on which sea? a. Mediterranean Sea b. Red Sea c. Black Sea ***d. Arabian Sea***	Which is farthest north? a. Cuba b. Japan ***c. England*** d. Australia	Which is farthest north? ***a. Bering Sea*** b. Arabian Sea c. South China Sea d. Gulf of Mexico	Which is farthest north? ***a. Butte, Montana USA*** b. Beijing, china c. Hilo, Hawaii d. San Francisco, California USA

Which is farthest south? ***a. Sydney, Australia*** b. Rio de Janeiro, Brazil c. Nairobi, Kenya d. Hilo, Hawaii	Cape Horn is at the very southern tip of a. Africa ***b. South America*** c. India d. Australia	True or False: The Philippine Islands are north of the equator. ***True***	True or False: The United States of America is bordered by just two countries. ***True***	True or False: The equator passes through South America and Africa. ***True***
True or False: The equator passes through Europe and North America. ***False***	True or False: The Black Sea lies north of the eastern Mediterranean Sea. ***True***	True or False: Norway is east of Sweden. ***False***	True or False: The United States of America is in the continent of North America. ***True***	True or False: The Hawaiian Islands are south of the equator. ***False***
True or False: Sri Lanka is an island just south of Japan. ***False***	In the United States of America, the days are longest (most hours of sunlight) during a. December b. October ***c. June*** d. March	In the United States of America, the days are shortest (fewest hours of sunlight) during ***a. December*** b. October c. June d. March	At sea level and at a temperature of 212° F, water a. Freezes ***b. Boils*** c. Condenses d. Turns to a solid	True or False: A weather forecast for one week from now is more likely to be accurate than a forecast for tomorrow. ***False***
In 1900, before weather satellites were on duty to warn of coming storms, in what U.S. city were around 7,000 people killed by an intense and expected hurricane? ***a. Galveston, Texas*** b. Omaha, Nebraska c. Portland, Oregon d. Phoenix, Arizona	True or False: In December, the North Pole is tilted away from the Sun. ***True.***	Each year, December 21 is one day the Sun never comes up in this location: a. Florida b. San Francisco c. Bolivia ***d. North Pole***	A slowly flowing river of ice is called a. An iceberg ***b. A glacier*** c. An icicle d. An igloo	Which one of the following conditions is unlikely to happen to someone because of very cold weather: a. Frostbite b. Hypothermia c. Shivering ***d. Freckles***
Sometimes people who exercise in very hot, humid weather and don't drink enough water may suffer a. Hypothermia ***b. Heatstroke*** c. Anemia d. Euphoria	Too much exposure to ultraviolet (UV) light from the Sun causes all of these problems to humans EXCEPT a. Sunburns ***b. Arthritis*** c. Skin cancer d. Wrinkling	The hottest day ever recorded in the Western Hemisphere was in Death Valley, California, on July 10, 1913, when the temperature reached a. 71.1° C (160° F) ***b. 56.7° C (134° F)*** c. 49.4° C (121° F) d. 46.1° C (115° F)	Because Earth is tilted on its axis of rotation, when it's baking in Boise, Idaho, in July it's mild and cool in ***a. Melbourne, Australia*** b. Phoenix, Arizona c. Paris, France d. Tokyo, Japan	If you are caught outside in a lightning storm, the worst thing you could do is a. Run into a building b. Hop into a parked car ***c. Run and hug an isolated tree on a hill*** d. Crouch on the ground in a ditch

When a very intense thunderstorm stalls over one area for a long time, the result can be

a. Drought
b. Flash floods
c. Tsunamis
d. Mesopause

Water's three phases are

a. Ice, liquid water, and water vapor
b. Rain, snow, and hail
c. Dry, damp, and wet
d. Infancy, childhood, and adolescence

Of the following cities, which gets the least annual rainfall?

a. Philadelphia, Pennsylvania
b. Phoenix, Arizona
c. Honolulu, Hawaii
d. Las Vegas, Nevada

The high-altitude, high-speed jet stream that blows from west to east across the U.S. is used
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

Named because of its similarity to a battlefield, the area where air masses clash is called a

a. High
b. Low
c. Front
d. Storm

An instrument that measures atmospheric pressure is called a

a. Thermometer
b. Barometer
c. Odometer
d. Spectrometer

If you see lightning and 5 seconds later you hear thunder, the lightning has struck the ground

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

The images of clouds and storms over the U.S. that are shown on TV weather reports are usually made by

a. Cameras on airplanes
b. Space Shuttle
c. International Space Station
d. Geostationary Operational Environmental Satellites (GOES)

A hurricane's size and move-ment can best be seen from

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

A scientist who studies weather is called a

a. Geologist
b. Biologist
c. Meteorologist
d. Astrologer

The tilt of Earth's axis of rotation is the reason for

a. Wind
b. Blue sky
c. Ocean waves
d. Seasons

True or false:

Lightning kills more people each year than tornados and hurricanes combined.

True

When the temperature outside drops below 32° Fahrenheit or 0° Celsius, something special happens. What is it?

a. Water turns into steam.
b. Wind stops blowing
c. Tulips bloom
d. Liquid water turns into solid ice

The amount of water in the air is called

a. Salinity
b. Humidity
c. Evaporation
d. Condensation

A thermometer measures

a. Air pollution
b. Wind direction
c. Temperature
d. Rainfall

In January, it is winter in Earth's

a. Northern Hemisphere
b. Southern Hemisphere
c. Eastern Hemisphere
d. Western Hemisphere

In June, the Sun never sets on

a. The South Pole
b. The equator
c. Washington, D.C.
d. The North Pole

The two Polar-orbiting Operational Environmental Satellites (POES) perform the following services:

a. Provide data for 3- to 5-day weather forecasts.
b. Monitor animal migration patterns
c. Detect forest fires
d. All of these

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

a. Rain
b. Snow
c. Hail
d. Frost

Which of these bodies of water does not touch the United States of America?

a. Gulf of Mexico
b. Gulf of Alaska
c. Black Sea
d. North Pacific Ocean

Which of these is the largest body of water?

a. North Atlantic Ocean
b. South Pacific Ocean
c. Indian Ocean
d. Caspian Sea

The Sun rises in the east (except very close to the North and South Poles) because

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

Which of these countries is closest to the United States?

a. Jamaica
b. Greenland
c. Iceland
d. Cuba

Where and in what direction do the trade winds blow?

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.

True or False:

The Doldrums form along the equator.

True

Which direction do the prevailing westerlies blow? ***a. From west to east.*** b. From east to west. c. From southeast to northwest. d. From north to south.	The polar easterlies blow from a. West to east ***b. East to west*** c. Along the equator d. From the North Pole to the South Pole	An anemometer measures a. Air pressure ***b. Wind speed*** c. Temperature d. Rainfall	For you to see a rainbow, the Sun must be a. Setting b. Overhead ***c. Behind you*** d. In front of you	Water freezes at what temperature? a. 0º F. ***b. 32º F.*** c. 12º C. d. 100º C.
True or False: In January, Earth is farthest from the Sun. ***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 ***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. 10º C (50º F) ***b. 38º C (100º F)*** c. 27º C (80º F) d. 18º C (65º 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? ***a. Clouds*** b. Forest c. Ocean d. Farmland	How does hot weather affect airplanes taking off? ***a. They have to go faster to get off the ground*** b. The runway must be cooled with water c. They must climb at a steeper angle d. The pilot must turn off the air conditioning.	All the energy for making storms starts out from: a. The oceans b. Earth's rotation ***c. The Sun*** d. Earth's hot core	Which of the following U.S. cities get the most annual rainfall? a. Pensacola, Florida b. Portland, Oregon c. Annette, Alaska ***d. Hilo, Hawaii***	The world record for wind speed of 231 miles per hour was set in 1934 at a. Miami, Florida ***b. Mt. Washington, New Hampshire*** c. Mt. Everest, Nepal d. Barrow, Alaska
Tornados cause all of the following types of damage EXCEPT a. Roofs torn off buildings b. Collapsed walls of buildings c. Flying debris ***d. Storm surges***	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. Hurricanes b. Blizzards c. Drought ***d. Tornadoes***	The temperature at the surface of the Sun is about 6,100º C (11,000º F). The temperature of a lightning bolt is about ***a. 27,760º C (50,000º F)*** b. 2,760º C (5,000º F) c. 260º C (500º F) d. 100º C (212º F)	Which country has the wildest weather-that is, the greatest variety of extreme weather conditions-in the world? a. Antarctica ***b. United States*** c. England d. Cuba	In what state of the United States are the most people killed by lightning strikes each year? a. Alaska b. Arizona ***c. Florida*** d. Hawaii
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 a. 10 inches b. 20 inches c. 50 inches ***d. 20 feet***	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 30ºF outside, and the wind is blowing 30 miles per hour, how cold will it feel to you outside? a. 45ºF b. 1ºF c. 70ºF ***d. 15ºF***	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***

The largest desert in the world is the a. Mojave Desert in California ***b. Sahara Desert in northern Africa*** c. Takla Makan (Desert in China d. Great Sandy Desert in Australia	Which of the following gases is most abundant in Earth's atmosphere? a. Oxygen b. Carbon Dioxide ***c. Nitrogen*** d. Ozone	A psychrometer is used to measure a. Air pressure ***b. Relative humidity*** c. Wind speed d. Rain	Water vapor in air condenses at its a. Relative humidity b. Isobar ***c. Dew point*** d. Freezing point	Mercury is 13.6 times heavier than water. If atmospheric pressure raises a column of mercury in a barometer about 30 inches, how tall would a water barometer have to be? ***a. 34 feet*** b. 24 feet c. 13.6 feet d. 2 feet
Water vapor will condense from air when the air is . . . ***a. Saturated*** b. Dry c. Humid d. Cold	If you saw cumulonimbus clouds forming in the sky above you, what kind of weather would you expect? a. A heat wave ***b. A thunderstorm*** c. A snowstorm d. A hurricane	The boundary between two different air masses is called a a. Isobar b. Isotherm c. Air mass ***d. Front***	In experiments called cloud seeding, what material have humans have dropped or shot into a cloud in order to increase the likelihood of rain? ***a. Silver iodide particles*** b. Sand c. Glass beads d. Dust	Meteorologists use information from all EXCEPT the following sources in making weather forecasts: a. Radar b. Satellites c. Weather stations ***d. Seismometers***
The orbit of the newest Polar-orbiting Operational Environmental Satellite (POES) is at what altitude above Earth's surface? 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)	Which of the following cloud types generally reaches the highest altitude? a. Cirrocumulus ***b. Cumulonimbus*** c. Altostratus d. Cumulus	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 a. Go up ***b. Go down*** c. Stay the same d. Evaporate	True or False: Latitude has much more affect on climate than does longitude. ***True***	True or False: Dallas, Texas, at latitude 33°N, get less solar radiation than does San Francisco at latitude 37ºN. ***False***
True or False: The windward side of a mountain range generally gets more rain than does the leeward side. ***True***	The main greenhouse gas in our atmosphere is a. Helium b. Hydrogen c. Oxygen ***d. Carbon dioxide***	The latitude that receives the most direct rays of the sun year-round is a. 60°N b. 90° c. 30°S ***d. 0°***	How fast must the winds be blowing inside a tropical storm for it to be "upgraded" to a hurricane? a. 35 mph b. 150 mph ***c. 74 mph*** d. 99 mph	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? a. 200 miles ***b. 22,300 miles*** c. 1,500 miles d. 950 miles