

XXXX

1.

The boundary between two air masses is known as:

- A) a barometer
- B) air pressure
- C) a hurricane
- D) a front

XXXX

XXXX

2.

Draw the symbol that is used to represent a cold front on a weather map. Be sure to include the color of the symbol.

XXXX

XXXX

3.

True or False?

In a high-pressure region, air is pushed down and warms up.

XXXX

XXXX

4.

Draw the symbol that is used to represent a warm front on a weather map. Be sure to include the color of the symbol.

XXXX

XXXX

5.

Complete the statement. As air pressure decreases, temperature _____.

XXXX

XXXX

6.

In a low pressure system, the air is in the process of:

- A) rising and cooling
- B) rising and heating
- C) falling and cooling
- D) falling and heating

XXXX

XXXX

7.

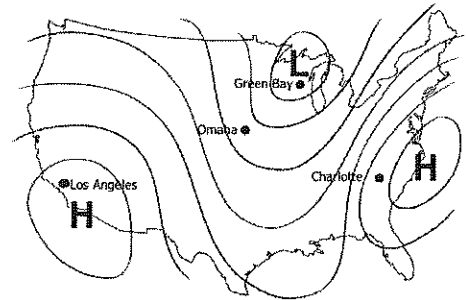
Does air move from areas of high pressure to low pressure?

XXXX

XXXX

8.

Which city is most likely experiencing cloudy skies?



XXXX

XXXX

9.

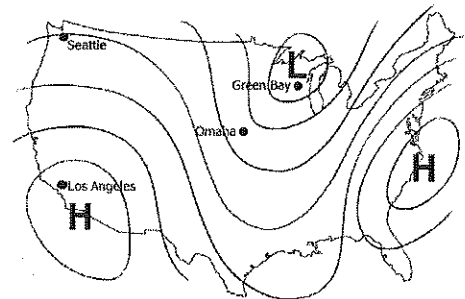
True or False? A cold front can lead to stormy weather.

XXXX

XXXX

10.

Which city is most likely experiencing clear skies?

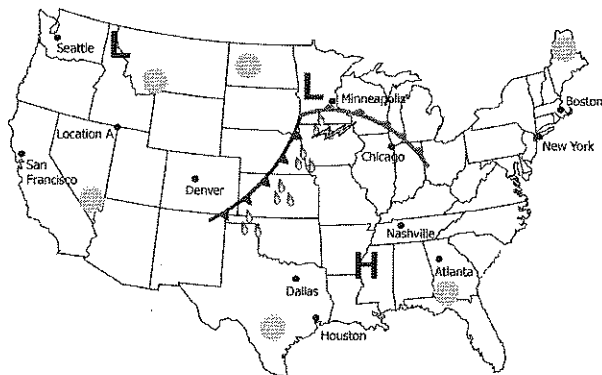


XXXX

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11.

Which city most recently saw a decrease in temperature?

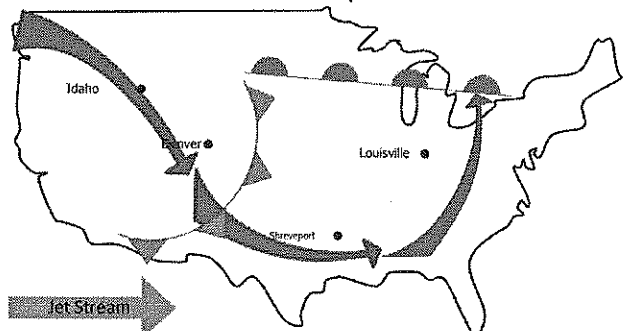


XXXX

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12.

Which city most recently saw a rise in temperature?



XXXX

XXXX

13.

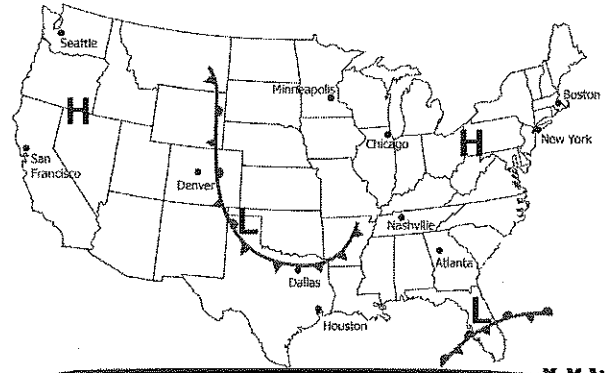
The narrow belt of high-speed winds that blow from west to east, between 6,000–12,000 meters above Earth's surface is called the _____. Airplanes traveling in the same direction can use them to travel faster.

XXXX

XXXX

14.

List all of the types of fronts shown on this weather map.



XXXX

XXXX

15.

Which of these causes convection currents in the atmosphere?

- A) Earth's rotation
- B) uneven heating of Earth by the Sun
- C) the rotation of hurricanes
- D) humidity in the air

XXXX

XXXX

16.

Which equipment is used to measure wind speed?

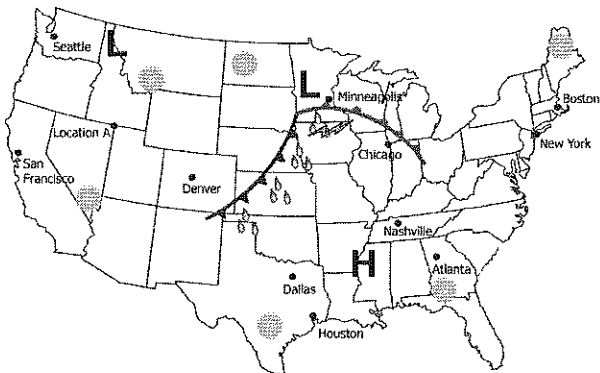
- A) psychrometer
- B) anemometer
- C) wind vane
- D) barometer

XXXX

XXXX

17.

Which city is most likely experiencing an increase in temperature and more humid weather?



XXXX

XXXX

18.

John heard the weather forecaster on TV say that an area of high pressure was located over his region of the state. What type of weather is the area most likely to experience?

- A) stormy
- B) cloudy and wet
- C) dry and clear
- D) cold and wet

XXXX

XXXX

19.

Explain how you know the direction a front is moving.



XXXX

XXXX

20.

What is the usual direction of weather systems across the United States?

- A) north to south
- B) south to north
- C) east to west
- D) west to east

XXXX

XXXX

21.

Between which two days will a cold front arrive? Explain.

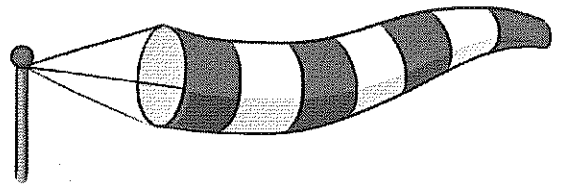


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XXXX

22.

Describe what this piece of equipment measures.



XXXX

XXXX

23.

On what day will there likely be severe weather?

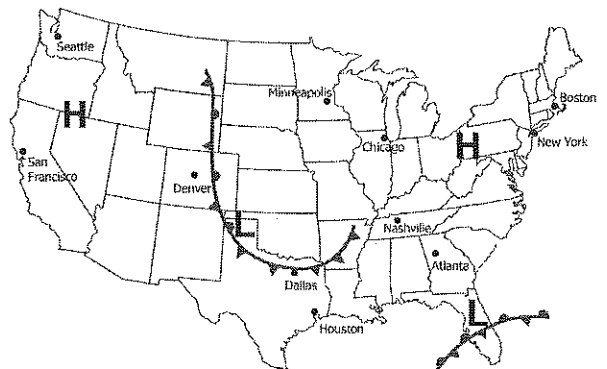


XXXX

XXXX

24.

Which city is most likely experiencing severe weather? Explain.



XXXX

XXXX

25.

An air mass that forms over the ocean near the equator will be:

- A) warm and moist
- B) warm and dry
- C) cool and moist
- D) cool and dry

XXXX

XXXX

26.

Which type of front often brings many days of almost continuous precipitation?

- A) cold front
- B) warm front
- C) occluded front
- D) stationary front

XXXX

XXXX

27.

Which type of front often brings violent storms followed by fair, cooler weather?

- A) cold front
- B) warm front
- C) occluded front
- D) stationary front

XXXX

XXXX

28.

Moving air is called _____.

XXXX

XXXX

29.

Which of these drives the energy to produce winds?

- A) solar energy
- B) water energy
- C) hydroelectric
- D) fossil fuels

XXXX

XXXX

30.

An air mass that originates in Canada and moves south into the United States would be called a:

- A) maritime tropical air mass
- B) maritime polar air mass
- C) continental tropical air mass
- D) continental polar air mass

XXXX

XXXX

31.

Why do the oceans have a greater impact on the weather than areas over land?

- A) The oceans contain more salt than inland lakes.
- B) Oceans contain a larger variety of living organisms than the continents.
- C) The oceans store and transfer more heat than the continents.
- D) The ocean waves move the wind over land more quickly than swiftly moving streams and rivers.

XXXX

XXXX

32.

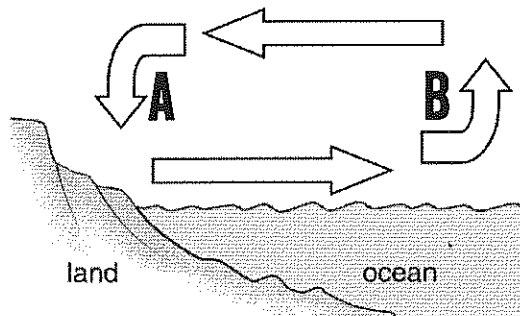
Describe 2 factors that are necessary for hurricane formation?

XXXX

XXXX

33.

What pressure system is located in area A?



XXXX

XXXX

34.

Which of the following describes the transfer of heat energy in air or liquids through currents?

- A) radiation
- B) conduction
- C) convection
- D) wave

XXXX

XXXX

35.

What term describes the amount of water vapor in the air?

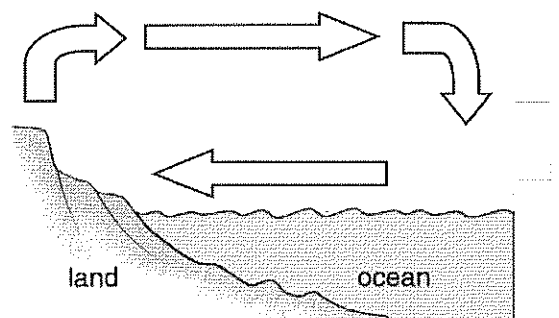
- A) air pressure
- B) humidity
- C) wind
- D) temperature

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36.

Is this a land breeze or a sea breeze?



XXXX