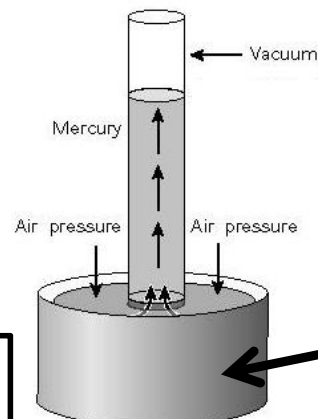
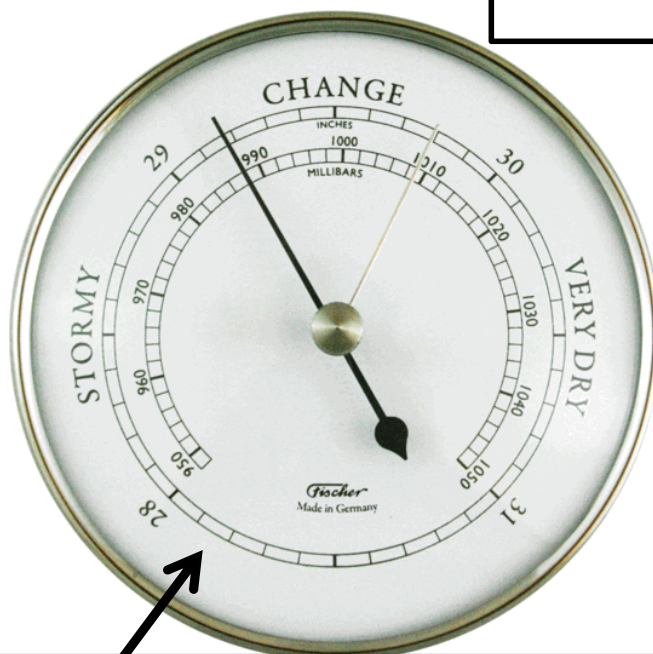


# Air Pressure and Wind

NAME: \_\_\_\_\_

## Weather Instruments

*What am I and what do I measure???*



# Pressure Conversion

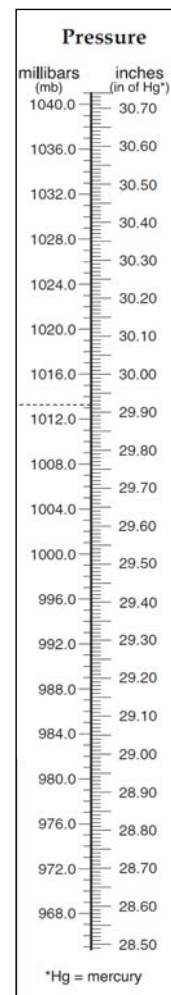
Covert the following:

1.) 1010mb = \_\_\_\_\_ in of Hg

2.) 29.23in = \_\_\_\_\_ mb

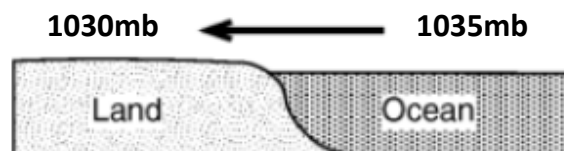
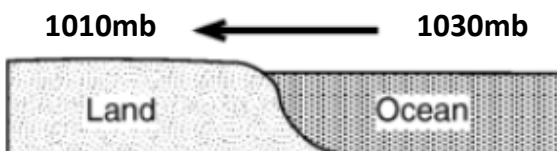
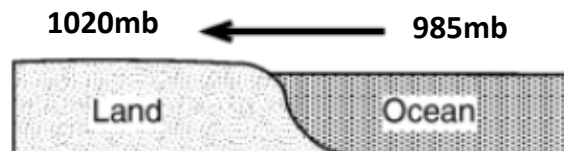
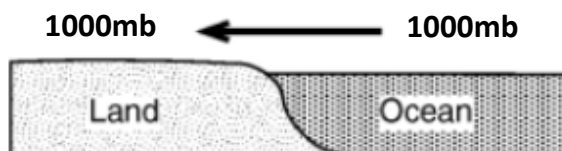
3.) 1028.5mb = \_\_\_\_\_ in of Hg

4.) 29.60in = \_\_\_\_\_ mb

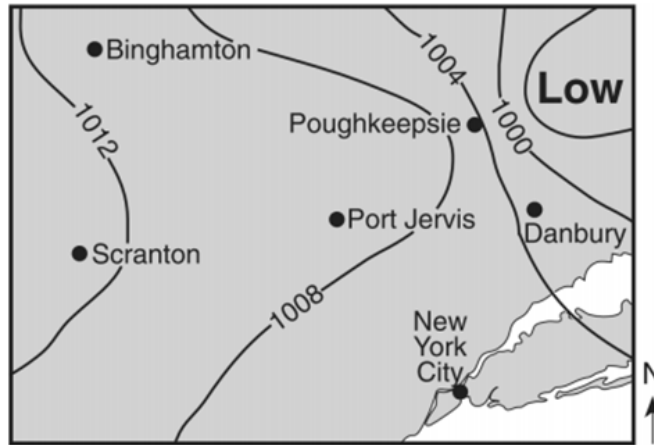


## Wind and Pressure Differences

*Which diagram correctly shows the air pressure differences that would cause the wind to blow the fastest from the ocean to the land?*



# Air Pressure and Wind Direction

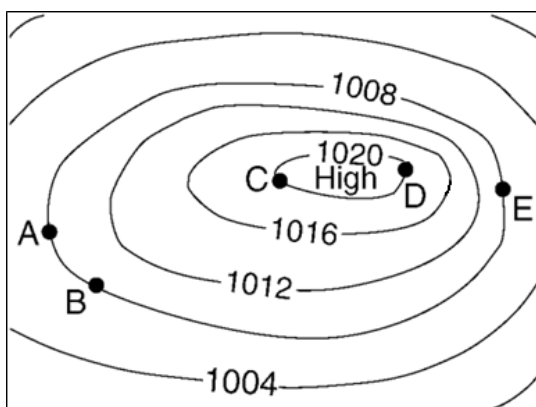


Surface winds are most likely blowing from

- A. Danbury toward New York City
- B. Poughkeepsie toward Scranton
- C. Binghamton toward Danbury
- D. Port Jervis toward Binghamton

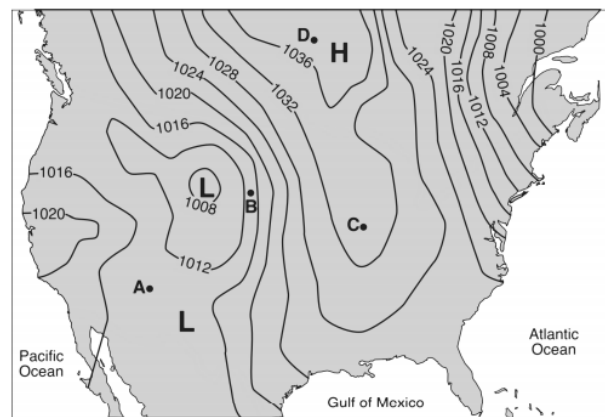
1. Draw an arrow connecting the 2 cities you chose to the left showing the wind direction.
2. Name the wind based upon the arrow direction.

## Wind Speed



Between which two locations is the wind speed greatest?

- A. A and B
- B. B and C
- C. C and D
- D. D and E

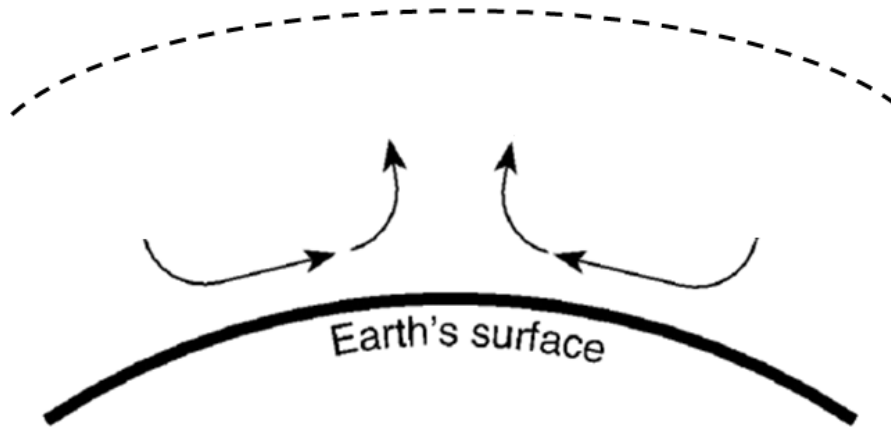


Which location was probably experiencing the highest wind speed?

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

# Energy Transfer in the Atmosphere

1. *Different temperatures in Earth's atmosphere cause the air to move, which we know as wind. What type of energy transfer is this?*
2. *Based on the direction of the arrows below, label areas at the Earth's surface where it is relatively cold and where it is relatively warm.*



## High and Low Pressure Systems

*Draw 4 arrows around the high and 4 around the low to show the movement of air (wind) around each pressure center.*

H

L

# Jet Stream

1. Place an "X" on NYS.
2. Draw an arrow across North America to represent the direction of the Polar Jet Stream.
3. According to where you drew the jet stream, label where the air is relatively warm and where it is relatively cool.

