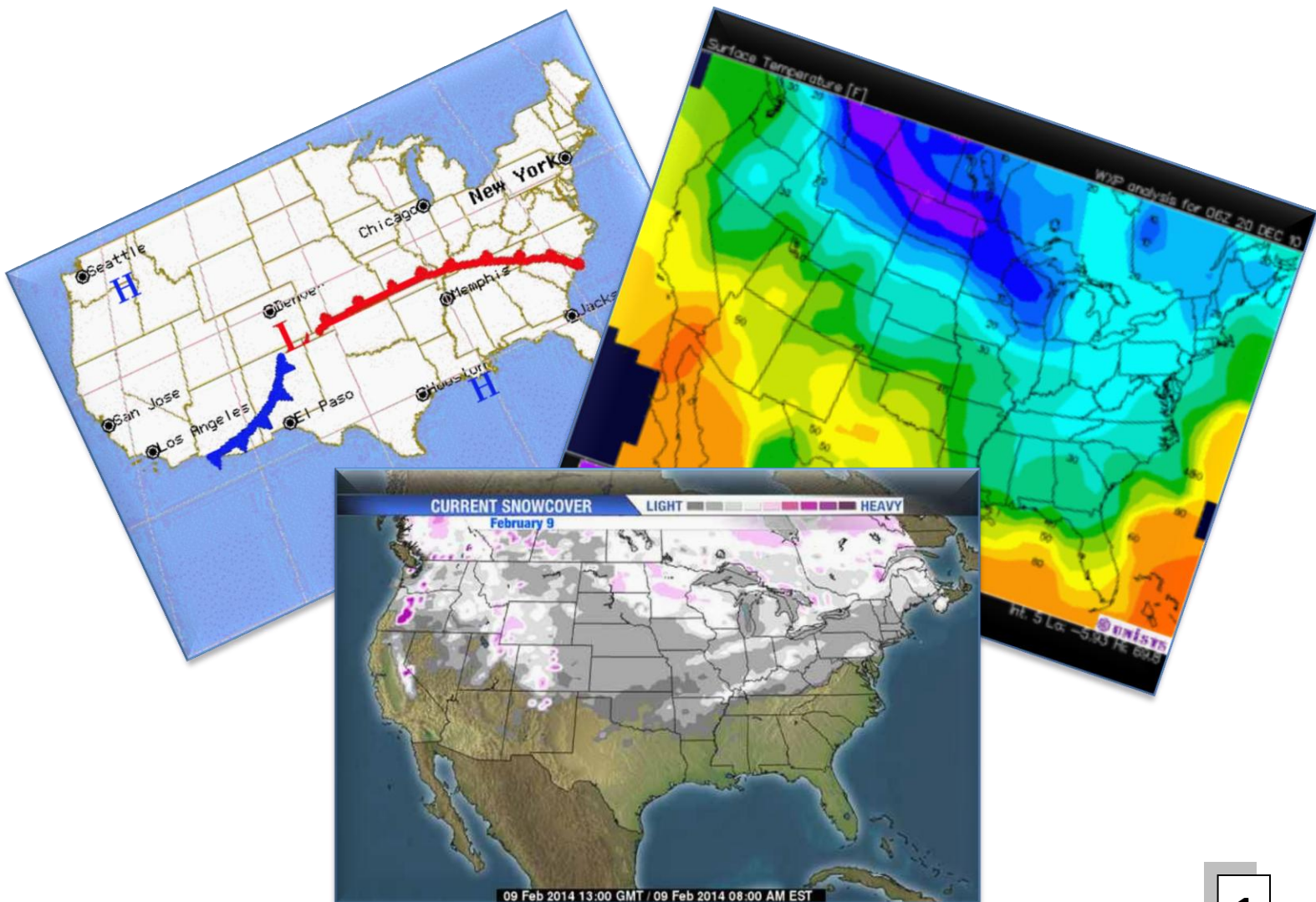




Name _____ Block _____

My Junior Meteorologist Packet


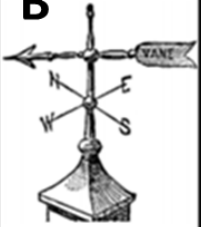


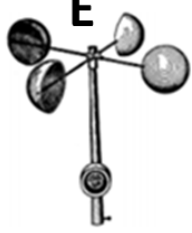


WEATHER INSTRUMENTS

INSTRUMENT	DESCRIPTION	PICTURE (Write correct letter)
THERMOMETER		
	A tool used to measure wind direction.	
		
RAIN GAUGE		
	An instrument used to measure air pressure.	
		

TUESDAY WARM UP- WEATHER TOOLS MATCH UP

Write the letter of the weather instrument in the blank to show the correction function.

A 	B 	C 	D 	E 
Measures wind speed	Measures amount of precipitation	Measures air temperature	Measures air pressure	Determines wind direction
_____	_____	_____	_____	_____

WEDNESDAY WARM UP- WEATHER MAP PRACTICE

Directions: Read prompts (1-10) and draw them on the United States map seen below.



1. Draw the isobars around Nebraska to indicate that it is extremely windy.
2. Draw a stationary front over Oregon.
3. Draw a cold front that is leaving Oklahoma and heading towards Texas.
4. It is extremely stormy in Virginia. Draw a symbol to represent the type of pressure system in that area.
5. Draw an occluded front over Wisconsin.
6. Draw the type of pressure system and the isobars to show that Georgia is currently sunny with calm winds.
7. California has a range of temperatures. Draw isotherms to show the following information:
Northern California- 60's, Middle California- 70's, Southern California- 90's.
8. Draw a warm front heading to Missouri from the east.

STATION MODEL PRACTICE

Directions: Draw a station model using the following information.

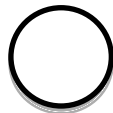
Right Now in Sterling, VA	
CLOUD COVER	Partly cloudy
WIND SPEED	15 mph
WIND DIRECT.	West
WEATHER	Moderate rain
TEMPERATURE	33°F
PRESSURE	1011 mb



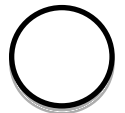
Right Now in San Jose, Argentina	
CLOUD COVER	25%
WIND SPEED	50 mph
WIND DIRECT.	NW
WEATHER	Light Rain
TEMPERATURE	93°F
PRESSURE	997 mb



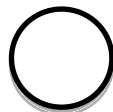
Right Now in San Diego, CA	
CLOUD COVER	Clear Skies
WIND SPEED	25 mph
WIND DIRECT.	NE
WEATHER	None
TEMPERATURE	72°F
PRESSURE	1016 mb



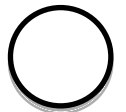
Right Now in Myrtle Beach, SC	
CLOUD COVER	50%
WIND SPEED	5 mph
WIND DIRECT.	SE
WEATHER	None
TEMPERATURE	65°F
PRESSURE	1002 mb

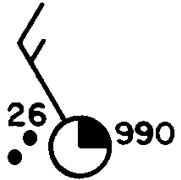
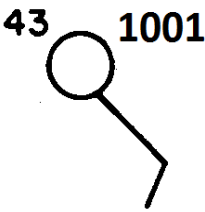
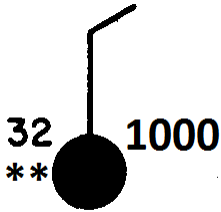
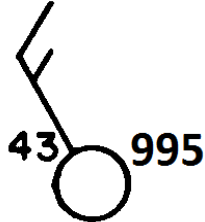


Right Now in Binghamton, NY	
CLOUD COVER	100%
WIND SPEED	10 mph
WIND DIRECT.	SE
WEATHER	Moderate Snow
TEMPERATURE	16°F
PRESSURE	995 mb



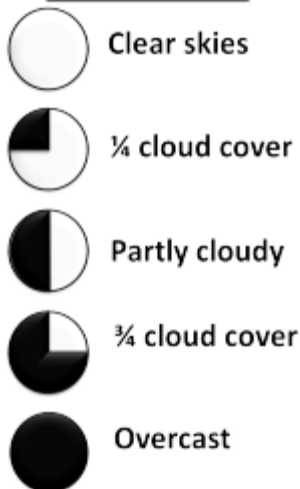
Right Now in Orlando, FL	
CLOUD COVER	75%
WIND SPEED	20 mph
WIND DIRECT.	NE
WEATHER	Moderate Rain
TEMPERATURE	88°F
PRESSURE	1014 mb



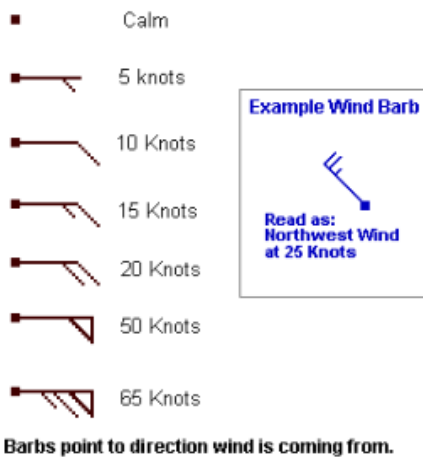
STATION MODELS	CLOUD COVER	WIND SPEED	WIND DIRECTION	TEMPERATURE	PRESSURE
					
					
					
					

LEGEND

SKY COVER



Wind Speed & Direction



WEATHER



Weather Maps

Use the data from the weather maps to answer the questions below.



1. What change in temperature could be expected for El Paso over the next day? _____
2. What direction is the warm front moving? _____
3. What does the sky look like over Seattle? _____
4. What might the sky look like over Denver? _____

UNDER PRESSURE!!

1. Which letter labels a cold front?

- A. Q C. X
- B. U D. Y

2. Which word best describes the general movement of the fronts?

- A. to the north C. clockwise
- B. to the east D. counterclockwise

3. Temperatures usually change quickly near a front and more slowly away from a front. The temperature at Q is 10°C (50°F). The temperature at S is 20°C (68°F). Which is the best estimate for the temperature at R?

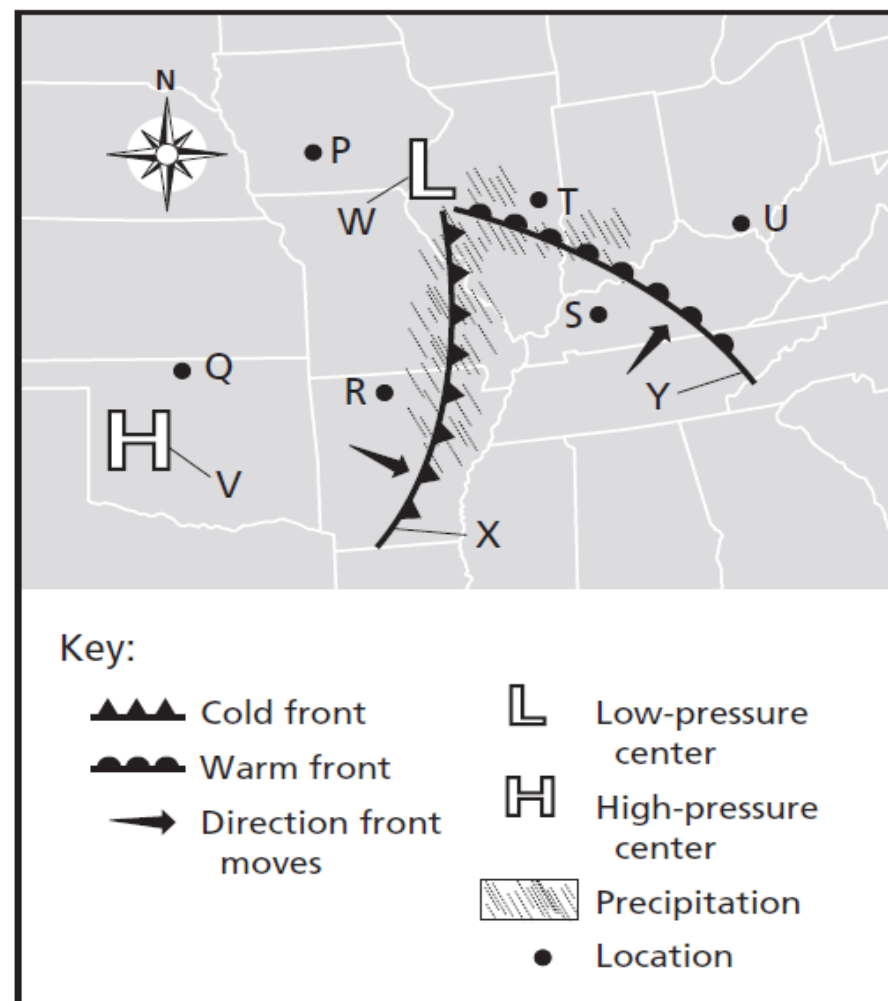
- A. 6°C (43°F) C. 20°C (68°F)
- B. 11°C (52°F) D. 24°C (75°F)

4. If the fronts continue to move as shown, which location will get warmer sooner?

- A. Q C. S
- B. R D. T

5. Identify locations S and T on the map. Tell which location is probably warmer and explain why.

6. Identify locations Q and U on the map. Tell which location is more likely to have clear skies and explain why.



ANALYZING WEATHER MAPS



1. Name and describe the air mass that has moved south to Omaha from Canada.

2. How are two low-pressure systems affecting the weather near Boston?

3. Explain whether Washington, D.C., or Orlando is more likely to have a big change in weather in the next two days.

4. Explain the difference in temperature between Oklahoma City and Little Rock.

5. How will the weather in Little Rock change in the next day or two?

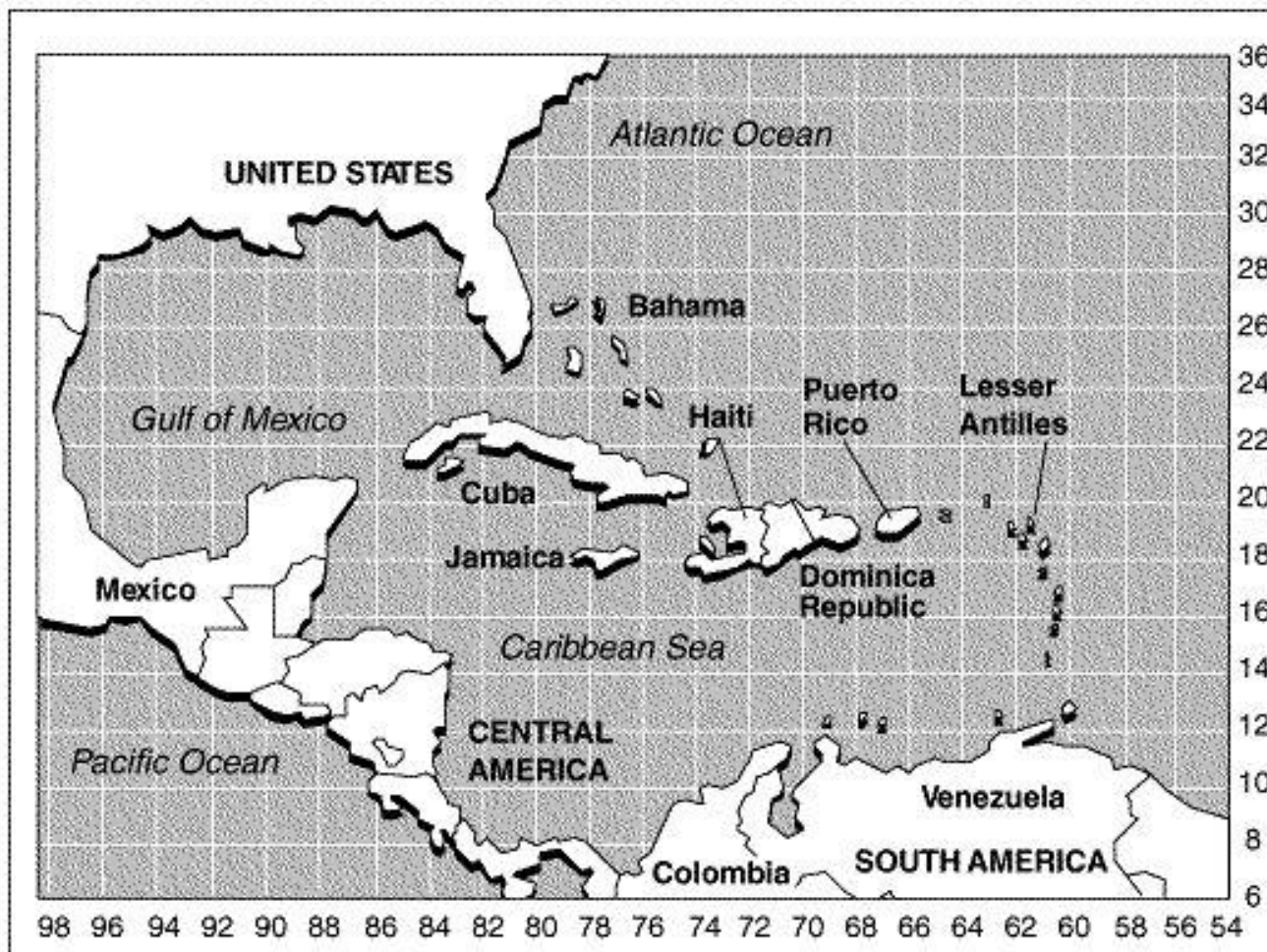
6. Does this map indicate that it is hurricane season? Explain your reasoning.

Hurricane Tracking Map

Directions: Plot the following hurricane coordinates on the map below and identify the location of the hurricanes by drawing a (🌀) with the center point over the exact coordinates.

Hurricane	Coordinates
Abby	32°N, 70°W
Blaine	20°N, 86°W
Chase	5°N, 55°W
Devin	25°N, 35°W

Which two (2) of these hurricanes is a threat for the United States?



Write the name of the location that is currently affected by a hurricane.

Coordinates	Location Name
18°N, 78°W	
19°N, 66°W	
26°N, 82°W	
16°N, 94°W	