Name: _____

1) Which weather station model shows the *highest* relative humidity?

A) 38 35

B) 39 39

C) 41 37

D) 37 32
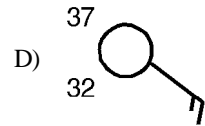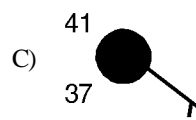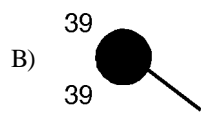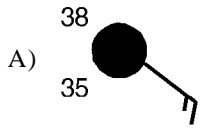
2) A weather station records a barometric pressure of 1,013.2 millibars. Which diagram below would *best* represent this weather station on a weather map?

A) 101

B) 320

C) 013

D) 132

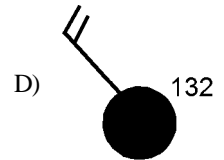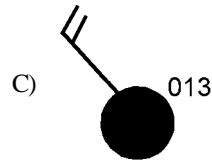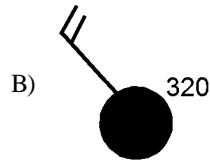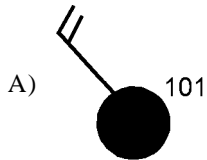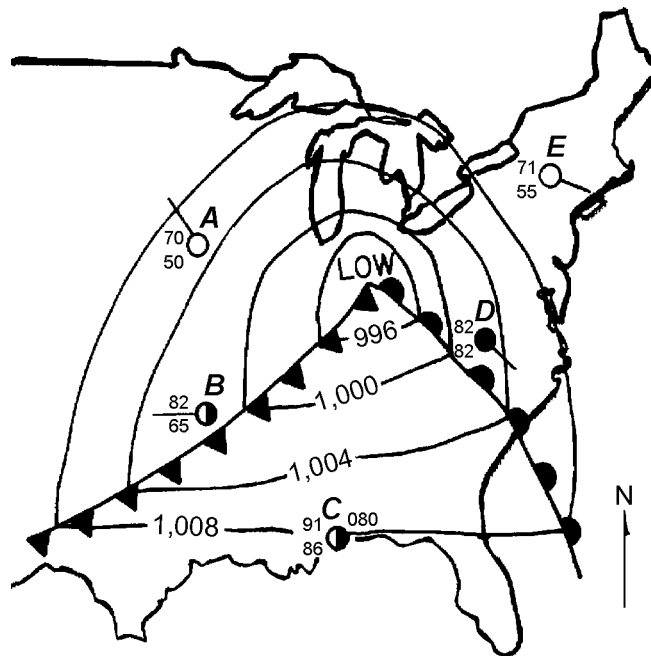Questions 3 and 4 refer to the following:

The diagram below represents a surface weather map of a portion of the United States. The map shows a low-pressure system with frontal lines and five weather stations *A* through *E*. Note that part of the weather data is missing from each station. [All temperatures are in DF.] [Refer to the *Earth Science Reference Tables*.]

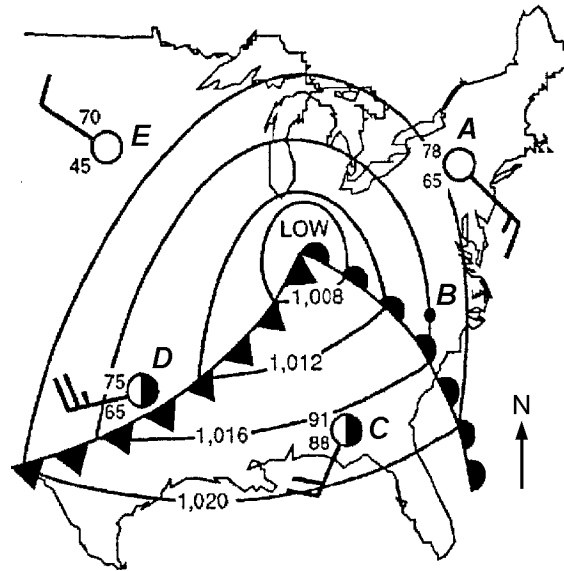3) The weather at station *C* on the weather map would most likely be
   A) partly cloudy and warm
   B) partly cloudy, windy, and very cold
   C) overcast, humid, and cool
   D) very dry and extremely hot

4) The wind direction at station *A* on the weather map is
   A) northwest
   B) northeast
   C) southwest
   D) southeast

Questions 5 and 6 refer to the following:

The diagram below represents a weather map showing part of the United States. Letters *A* through *E* represent weather stations.

5) At which weather station on the weather map is the barometric pressure reading most likely to be 1,018.0 millibars?

A) *A*   B) *B*   C) *C*   D) *D*

6) Which weather station model *best* represents weather conditions at station *B* on the weather map?

A)   B)   C)   D)

7) The table below shows weather conditions for 4 consecutive days at a location in New York State. Each reading was taken at 1 p.m.

Day	Temperature (°F)	Wind Speed, Wind Direction, Cloud Cover	Barometric Pressure (mb)	Present Weather
Monday	6		1,028.0	Clear
Tuesday	4		1,029.0	Sunny
Wednesday	24		1,017.0	Light snow
Thursday	26		1,011.0	Light snow

On which two days was the relative humidity probably *highest*?

A) Thursday and Monday   C) Wednesday and Thursday
B) Monday and Tuesday   D) Tuesday and Wednesday

8) Which weather station model indicates the *highest* relative humidity?

A)   B)   C)   D)

9)   Which station model represents an atmospheric pressure of 1,009.2 millibars and a temperature of 75DF?

A)   092
     +75/

B)   92   75
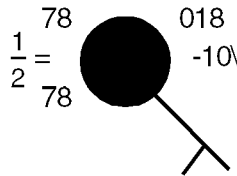
C)   092
     75

D)   75   092
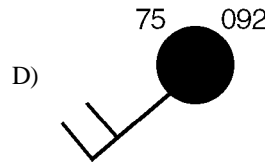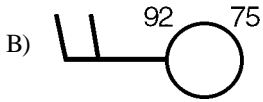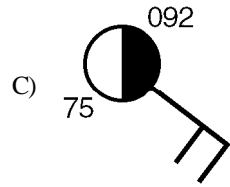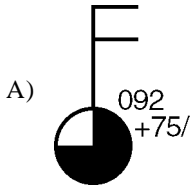
Questions 10 and 11 refer to the following:

$\frac{1}{2}$ =   78   018
            78   -10\

10) State the condition represented by the symbol for "present weather."

11) State the relative humidity.

Questions 12 and 13 refer to the following:

A partial station model and meteorological conditions table, as reported by the weather bureau in the city of Oswego, New York, are shown below.

Air temperature: 65°F
Wind direction: from the southeast
Wind speed: 20 knots
Barometric pressure: 1017.5 mb
Dewpoint: 53°F

12) Using the meteorological conditions given, complete the station model by recording the air temperature, dewpoint, and barometric pressure in the proper format.

13) State the sky conditions or amount of cloud cover over Oswego as shown by the station model.

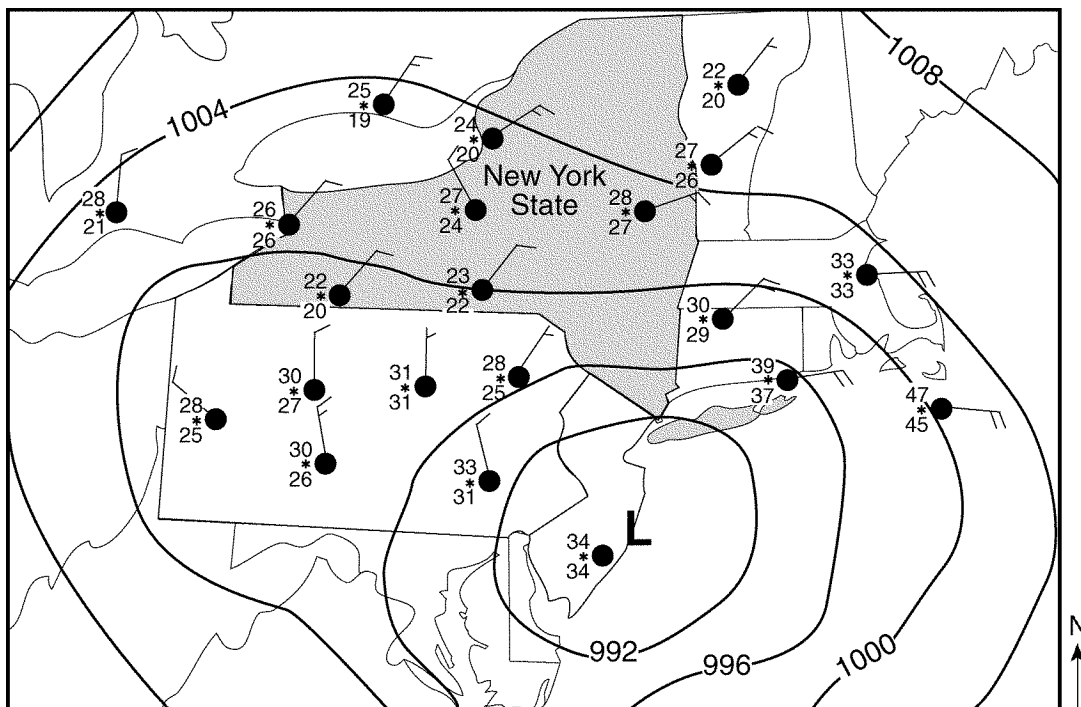14) The table below shows weather conditions recorded in a city at the time of a severe hailstorm.

Wind direction	from the northwest
Wind speed	20 knots
Visibility	$\frac{1}{4}$ mile
Present weather	hail
Amount of cloud cover	100%
Barometric pressure	990.0 millibars

Station Model

On the weather map station model provided, use the correct symbols and proper format to indicate the six weather conditions shown in the table.

15) The map below shows weather conditions in New York State and the surrounding region during a December snowstorm. Letter **L** represents the center of the low-pressure system that produced the snowstorm. Isobars show air pressure, in millibars.

Using the map shown, complete the table below by describing the weather conditions at Buffalo, New York.

Weather Conditions	Description
present weather	
wind direction from	
wind speed (knots)	
relative humidity (%)	