

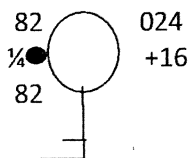
TEST REVIEW QUESTIONS

1. Base your answer to the following questions on the weather station data shown in the table below.

| | |
|-----------------------|---------------------|
| Air Temperature | 26°C |
| Dew Point Temperature | 24°C |
| Barometric Pressure | 984.2mb |
| Wind Direction | From the South East |
| Wind Speed | 20 knots |

- State the air temperature in degrees Fahrenheit. *78°F*
- State the dew point temperature in degrees Fahrenheit. *75°F*
- State the barometric pressure in its proper form, as used on a station model. *842 (drop the "9" & decimal)*
- At this time is the relative humidity High or Low, explain. *Low - high temps low pressure*

Base your answers to the question below on the station model below.

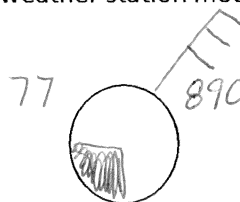


- State the condition represented by the symbol for "present weather". *RAIN*
- State the relative humidity. *100% (Air & dew the same!)*
- State the barometric pressure in millibars. *1002.4mb*
- What was the barometric pressure 3 hours ago? *1000.8m*

$$\begin{array}{r} 1002.4m \\ - 1.6 \\ \hline 1000.8 \end{array}$$

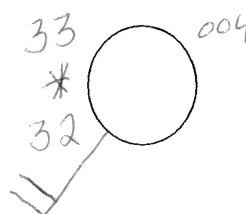
6. Using the proper format, place the following data on the weather station model provided below.

Wind = 30 knots blowing from the North East.
 Barometric pressure = 989.0mb.
 Cloud Cover = 25%.
 Air temperature = 77°F.



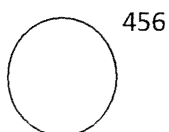
7. Using the proper format, place the following data on the weather station model provided below.

Wind = 20 knots blowing from the South West.
 Barometric pressure = ~~1100.4mb~~
 Air temperature = 33°F.
 Dew point temperature = 32°F.
 Present Weather = Snow



* mistake it should have said ~~1100.4m~~ said 1000.4m

8. What is the actual pressure shown by the station model below?



$$\underline{1045.6 \text{ mb}}$$

9. Where is the most likely source area for a tropical depression that grows into a major hurricane in the United States?

OFF THE WEST COAST OF AFRICA
LOOK AT PG. 4 ESRT!

10. What conditions must exist for a hurricane to form?

WARM TEMPS
OVER WATER

11. As an Atlantic hurricane is born, intensifies, and later fades, what is its most likely path as it moves toward the mainland of the United States?

FOLLOWS CURRENT SYSTEM → THEN
FOLLOWS THE GULF STREAM & GLOBAL WINDS
ESRT pg. 14

12. State two steps you would take in preparing for a hurricane.

- Board up windows
- gather extra food, water, batteries
- go to the lowest part of your home - if no flooding is possible.

13. What conditions must exist to form a tornado?

Rising, hot temps over land.

14. How do the surface winds flow in a Hurricane?

Counter clockwise

15. What is the name of the scale used to measure Hurricanes?

Saffir / Simpson scale

16. What is the name of the scale used to measure Tornadoes?

Fujita scale