

Dew Point Temperature and Relative Humidity Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

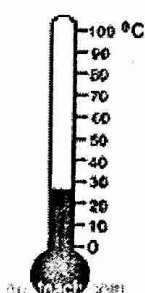
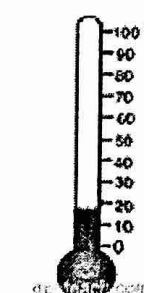
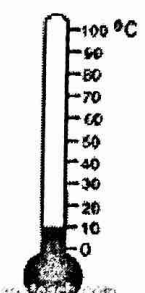
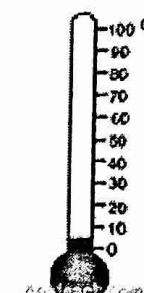
**Dew Point Temperature and Relative Humidity Practice**

**Directions:** Open the following **Dew Point and Relative Humidity Reference Tables**. Navigate to page 12. You may want to print them for easy reference. Consult the both charts to complete problems 1-5 in the data table below.

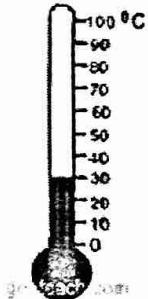
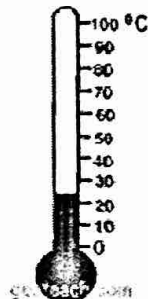
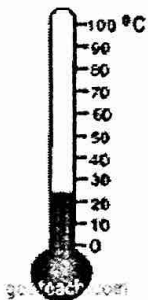
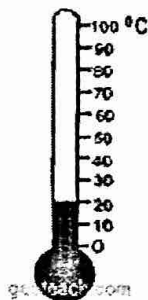
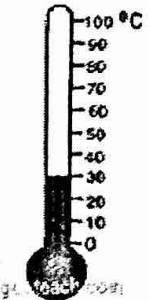
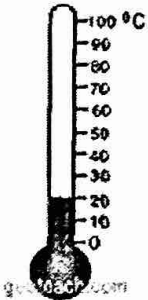
1. Read the temperature on each thermometer and record it next to the image.
2. Find the difference between the Wet and Dry Bulb temperatures and record it in the *Difference column*.
3. On the Reference charts, find the correct Dew Point Temperature and Relative Humidity and record each in the last 2 columns.

When you have finished entering your data into the table, then answer the 4 questions that follow the Data Table.

**Sling Psychrometer Wet and Dry Bulb Temperature Readings**

Dry Bulb (Air) Temperature	Wet Bulb Temperature	Difference	Dew Point Temperature	Relative Humidity
 <p>1. _____ °C</p>	 <p>_____ °C</p>	_____ °C	_____ °C	_____ %
 <p>2. _____ °C</p>	 <p>_____ °C</p>	_____ °C	_____ °C	_____ %

Dew Point Temperature and Relative Humidity Practice

Dry Bulb (Air) Temperature	Wet Bulb Temperature	Difference	Dew Point Temperature	Relative Humidity
 <p>3. _____ °C</p>	 <p>_____ °C</p>	_____ °C	_____ °C	_____ %
 <p>4. _____ °C</p>	 <p>_____ °C</p>	_____ °C	_____ °C	_____ %
 <p>5. _____ °C</p>	 <p>_____ °C</p>	_____ °C	_____ °C	_____ %

Name: \_\_\_\_\_

Dewpoint, Relative Humidity, and Cloud Base Altitude  
Reference Table Practice

Use p. 12 of your ESRT and the Cloud Base Altitude graph to fill in the blanks.

Dry Bulb Temp *C	Wet Bulb Temp *C	Wet Bulb Depression *C	Dewpoint Temp *C	Relative Humidity %	Cloud Base Altitude Km
16	10				
2		2			
	15	13			
-2	-5				
14				60	
6		3			
	15	9			
0	-3				
	25	5			
8			-9		

**Questions:**

1. Of the 5 Dew Point and Relative Humidity problems for which you entered answers in the Data Table, which problem number represents weather conditions most favorable for some form of precipitation at some point during the day?

Number: \_\_\_\_\_

2. Of the 5 Dew Point and Relative Humidity problems for which you entered answers in the Data Table, which problem number represents weather conditions least likely to cause any form of precipitation during the day?

Number: \_\_\_\_\_

3. Complete the following sentence using one of these words: **most** or **least**.  
When the Air Temperature is closer to the Dew Point Temperature then precipitation is

\_\_\_\_\_ likely to occur.

4. Complete the following sentence using one of these words: **higher** or **lower**.  
When the Air Temperature is closer to the Wet Bulb Temperature then the Relative

Humidity tends to be \_\_\_\_\_.

---

Assignment and Illustrations are © L. Immoor, Geoteach.com, Geolor.com  
2006; Revised in 2007; All Rights Reserved.

Reference Tables are © The University of the State of New York; Board of Regents;  
Earth Science Regents Examinations; 2001 Edition

No portion of this assignment may be re-typed or reproduced in any way, including for classroom distribution and in an online web page without providing credit back to "Geoteach.com" as well as to the "The University of the State of New York; Board of Regents; Earth Science Regents Examinations".