

**CHAPTER REVIEW**Chapter **8****Weather****I. Vocabulary Review**

Match each item in Column I with the most appropriate item in Column II. Write the letter for that item in the blank at the left.

Column I	Column II
_____ 1. amount of water vapor in the air	<b>a.</b> sleet
_____ 2. temperature at which air is saturated and condensation takes place	<b>b.</b> dew point
_____ 3. precipitation made up of many small ice pellets	<b>c.</b> barometer
_____ 4. boundary between two air masses	<b>d.</b> humidity
_____ 5. instrument that measures atmospheric pressure	<b>e.</b> front

**II. Concept Review**

If the underscored word or phrase makes the sentence true, write "TRUE" in the space provided. If the underscored word or phrase makes the sentence false, write the correct term or phrase in the space provided.

- \_\_\_\_\_ 6. The rotation of Earth forms the basis of Earth's weather.
- \_\_\_\_\_ 7. Warm air can hold less water vapor than can cold air.
- \_\_\_\_\_ 8. The type of precipitation that falls to Earth depends on the relative humidity.
- \_\_\_\_\_ 9. Precipitation in the form of hail is associated with a warm air temperature.
- \_\_\_\_\_ 10. An air mass that develops over land close to the North Pole is likely to be hot in temperature.
- \_\_\_\_\_ 11. Where warm and cold air masses meet, a low pressure system usually results.
- \_\_\_\_\_ 12. Stormy weather is usually associated with high pressure systems.
- \_\_\_\_\_ 13. Thunderstorms often occur at stationary fronts.
- \_\_\_\_\_ 14. Tornadoes sometimes develop from hurricanes.
- \_\_\_\_\_ 15. Hurricanes are longer-lasting storms than are tornadoes.
- \_\_\_\_\_ 16. Lightning results when current passes between areas of equal electrical charge in clouds.

## Chapter Review 8 (continued)

### III. Skills/Process Review

Use the table below to answer the following questions.

Dry bulb temp.	Dry bulb temperature minus wet bulb temperature, °C									
	1	2	3	4	5	6	7	8	9	10
10°C	88	77	66	55	44	34	24	15	6	
12°C	89	78	68	58	48	39	29	21	12	
14°C	90	79	70	60	51	42	34	26	18	10
16°C	90	81	71	63	54	46	38	30	23	15
18°C	91	82	73	65	57	49	41	34	27	20
20°C	91	83	74	67	59	53	46	39	32	26
22°C	92	83	76	68	61	54	47	40	34	28
24°C	92	84	77	69	62	56	49	43	37	31
26°C	92	85	78	71	64	58	51	46	40	34
28°C	93	85	78	72	65	59	53	48	42	37
30°C	93	86	79	73	67	61	55	50	44	39

17. If the dry bulb temperature is 12°C and the wet bulb temperature is 6°C, what is the relative humidity? \_\_\_\_\_
18. If the dry bulb temperature is 20°C and the wet bulb temperature is 14°C, what is the relative humidity? \_\_\_\_\_
19. For a given difference in dry and wet bulb temperatures, how does a higher dry bulb temperature affect the relative humidity? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### IV. EYV Review

20. **Teens in Science: Weather Watch** With all the new and technical equipment meteorologists use today, why do you suppose their predictions are sometimes wrong? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_