

Section: Severe Weather

1. Weather that can cause property damage and sometimes death is called _____

THUNDERSTORMS

- _____ 2. Which of the following atmospheric conditions produces thunderstorms?
- a. warm, moist air near Earth's surface and an unstable atmosphere
 - b. cold, dry air near Earth's surface and an unstable atmosphere
 - c. an unstable atmosphere
 - d. warm, moist air near Earth's surface
- _____ 3. Which type of cloud would most likely produce a thunderstorm?
- a. stratus cloud
 - b. cirrus cloud
 - c. cumulus cloud
 - d. cumulonimbus cloud
4. A usually brief and heavy storm with rain, strong winds, lightning, and thunder is called a(n) . _____
5. An electric discharge between two oppositely charged surfaces is _____
6. Name three places where lightning can happen.
- _____
- _____
- _____
7. The sound caused by air rapidly expanding along a lightning strike is called _____
8. Name four dangerous conditions that severe thunderstorms can produce.
- _____
- _____
- _____
- _____

TORNADOES

- _____ 9. What is a destructive, rotating air column with very high wind speeds that touches the ground?
- a. thunderstorm
 - b. tornado
 - c. severe thunderstorm
 - d. occluded front

- _____ 10. In what percent of thunderstorms do tornadoes occur?
- a. 10%
 - b. 20%
 - c. 1%
 - d. 5%

11. What is the relationship between a funnel cloud and a tornado?

12. What causes a column of air spinning like a roll of toilet paper to turn to a vertical position?

13. What happens when the spinning column of air moves to the bottom of the cumulonimbus cloud?

14. Why do most tornadoes in the United States occur in the spring and early summer?

15. Why are tornadoes able to cause so much damage?

DR 16-3 *continued*

HURRICANES

- _____ 16. In order to be called a hurricane, a storm must
- cause much damage.
 - travel thousands of miles.
 - form over the Pacific Ocean.
 - have wind speeds of at least 120 km/h.
- _____ 17. What is a cyclone?
- a tornado
 - a storm in the Pacific Ocean
 - a hurricane that forms over the Indian Ocean
 - the second most powerful storm on Earth
- _____ 18. Hurricanes do not form in higher latitudes because
- the water is too warm.
 - there is not enough wind.
 - the water is too cold.
 - they cannot travel that far.

19. What causes a group of thunderstorms to become a hurricane?

20. Where does the energy that fuels a hurricane come from?

21. Why does a hurricane begin to die when it reaches land?

Match the correct description with the correct term. Write the letter in the space provided.

_____ 22. clouds that spiral around the center of a hurricane

- eye
- eye wall
- rain bands

_____ 23. cumulonimbus clouds that produce strong winds and heavy rains

_____ 24. core of warm, calm air

DR 16-3 *continued*

25. In what two ways can a hurricane cause a great deal of damage?

SEVERE WEATHER SAFETY

_____ 26. Which is NOT a safety measure during a thunderstorm?

- a. Stand near a tree.
- b. Stay low to the ground.
- c. Stay away from water.
- d. Listen to the radio.

_____ 27. What does a tornado warning mean?

- a. that a tornado will strike your area soon
- b. that the possibility of a tornado exists
- c. that a tornado has been spotted
- d. that the weather is likely to produce tornadoes

_____ 28. What is the most important safety measure during a hurricane?

- a. Get plenty of food and water.
- b. Leave your home.
- c. Board up your windows.
- d. Do not go outside.