

**M O D E R N E A R T H S C I E N C E**

**Section 25.2**

**Fronts**

**Read each question and answer it in the space provided.**

- 1. What type of storm is usually found along a squall line? \_\_\_\_\_
- 2. What type of front is generally preceded by cirrus and cirrostratus clouds? \_\_\_\_\_
- 3. What is the name of the boundary at which cold polar air meets the warmer air of the middle latitudes? \_\_\_\_\_
- 4. What type of front forms in the first stage of a wave cyclone? \_\_\_\_\_
- 5. What causes the clockwise circulation of air around a center of high pressure in the Northern Hemisphere? \_\_\_\_\_
- 6. What are hurricanes that form over the western Pacific Ocean called? \_\_\_\_\_
- 7. What is the name for a small storm that forms when a thunderstorm meets high-altitude horizontal winds? \_\_\_\_\_
- 8. What term is used to describe the center of a hurricane? \_\_\_\_\_
- 9. What type of front is produced when a cold front overtakes and lifts warm air completely off the ground? \_\_\_\_\_

**Read the statement and answer it in the space provided.**

- 10. Explain how hurricanes form.  
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**M O D E R N E A R T H S C I E N C E**

**Chapter 25**

**Choose the best response. Write the letter of that choice in the space provided.**

- \_\_\_\_\_ **10.** Tornadoes that occur over the ocean are called  
a. waterspouts.    b. typhoons.    c. waves.    d. hurricanes.
- \_\_\_\_\_ **11.** A wind with a direction designated as 90° is blowing from the  
a. north.    b. south.    c. east.    d. west.
- \_\_\_\_\_ **12.** An instrument package attached to a weather balloon is  
a. an anemometer.    b. a wind vane.    c. a radiosonde.    d. a thermograph.
- \_\_\_\_\_ **13.** The lines on a weather map connecting points of equal atmospheric pressure are called  
a. isobars.    b. isotherms.    c. highs.    d. lows.
- \_\_\_\_\_ **14.** It is generally difficult to accurately predict  
a. wind speed.    b. amount of precipitation.  
c. wind direction.    d. temperature.
- \_\_\_\_\_ **15.** Of the following terms, which one would most likely be placed higher on a concept map designed for this chapter?  
a. occluded front    b. wave cyclone    c. tornado    d. air mass

**Critical Thinking**

**Read each question or statement and answer it in the space provided.**

**1.** If the air in your region is warm and dry, what type of air mass could be responsible? What letters designate this air mass?

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