

CHAPTER 25 - WEATHER practice test

Completion

Complete each statement.

1. What type of front is generally preceded by cirrus and cirrostratus clouds? _____
2. The deflection of wind caused by the earth's rotation is called _____.
3. The type of air mass that forms over land is called a(n) _____.
4. How many tropical air masses influence the weather in North America? _____
5. What letter designation is used for air masses that form over northern Canada? _____
6. What type of air mass forms over the northern Pacific and southwestern Alaska? _____
7. What type of front forms when two air masses meet but neither is displaced? _____
8. What type of storm is usually found along a squall line? _____
9. What type of front is produced when a cold front overtakes and lifts warm air completely off the ground?

10. In which direction do wave cyclones spin in the Northern Hemisphere? _____
11. What is the name of the boundary at which cold polar air meets the warmer air of the middle latitudes?

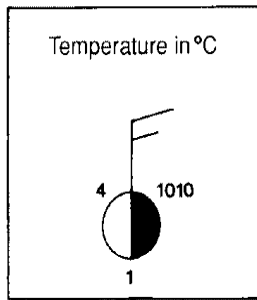
12. What causes the clockwise circulation of air around a center of high pressure in the Northern Hemisphere?

13. Hurricanes that form over the western Pacific Ocean are called _____.
14. What is the name for a small storm that forms when a thunderstorm meets high-altitude, horizontal winds?

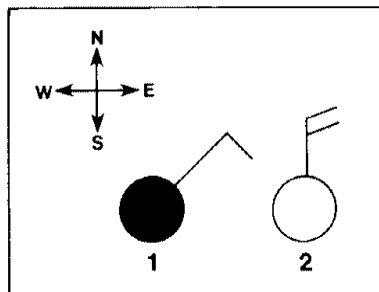
15. What term is used to describe the center of a hurricane? _____
16. How is a south wind indicated in degrees? _____
17. What two temperature scales are commonly used in the United States? _____
18. What type of meteorological instrument package is carried into the atmosphere by helium-filled balloons, to investigate weather conditions? _____
19. To take images of cloud cover over all of North America, cameras are mounted on _____.
20. Which instrument do scientists use to measure wind speed? _____
21. What information do scientists gather by tracking the path of a helium-filled balloon?

22. On a weather map, what is a line connecting the points of equal atmospheric pressure called?

23. What is the general term for the temperature to which air must be cooled to become saturated with moisture?



24. What temperature is indicated by the station model above? _____
25. The dew point indicated by the station model above is _____.



26. What cloud conditions are indicated by the symbol labeled 1 in the diagram above? _____
27. What is the wind direction indicated by the symbol labeled 2 in the diagram above? _____
28. The release of large quantities of ions near the ground can modify the electrical properties of small cumulus clouds to help control _____.
29. What do scientists try to produce by adding freezing nuclei to supercooled clouds? _____
30. Daily forecasts usually predict weather conditions for how many consecutive hours? _____