

Lesson Quiz

Storms

If the statement is true, write *true*. If the statement is false, change the underlined word or words to make the statement true.

1. _____ You should be on the lookout for tornadoes during hurricanes because the two often occur together.
2. _____ During a hurricane, the safest thing to do is lie in a ditch.
3. _____ A thunderstorm loses strength as it passes over land.
4. _____ Storm surges accompany hurricanes.
5. _____ Tornadoes can cause extreme damage to one area, and hardly touch another area just a few hundred feet away.

Fill in the blank to complete each statement.

6. A(n) _____ is a tropical storm that has winds of 119 km/h or higher.
7. A rapidly spinning column of air that reaches from a cloud down to Earth's surface is a(n) _____.
8. When a hurricane makes landfall it brings a(n) _____, a dome of water that can severely damage the coast.
9. To _____ is to move away temporarily.
10. A sudden electrical discharge that often accompanies thunderstorms is called _____.

Storms

A hurricane today that is the same strength as a hurricane in 1910 will cause much more damage than the earlier hurricane. Read the passage below and look at the tables that follow it. Then use a separate sheet of paper to answer the questions below the tables.

Population Growth and Damage From Hurricanes

The East Coast of the United States has attracted millions of new residents and vacationers over the past several decades. There are now more than 50 million people who live year-round on shorelines from Texas to Maine, especially in the Sunbelt from Texas through North Carolina. The East Coast is also in the path of many hurricanes, and the increase in population has led not only to more costly damage when hurricanes strike, as shown in the table below, but also to problems evacuating people. The development of new roads along the shoreline has not kept pace with population growth, making evacuation difficult. In addition, many people do not take hurricane warnings seriously enough and may delay leaving in an evacuation.

Year	Coastal County Population From Texas to Maine (Millions)
1910	12.2
1920	14.0
1930	17.6
1940	19.3
1950	24.0
1960	30.0
1970	35.5
1980	38.9
1990	43.8
2000	47.6

Decade	Damage From Hurricanes (Billions in 2000 Dollars)
1901–1910	0.5
1911–1920	3.5
1921–1930	2.2
1931–1940	6.1
1941–1950	5.7
1951–1960	15.6
1961–1970	24.9
1971–1980	18.5
1981–1990	21.5
1991–2000	56.6

1. Describe how the coastal population from Texas to Maine has changed since 1910.
2. How did the amount of damage caused by hurricanes change during the same period?
3. Why has an increase in shoreline population led to an increase in the amount of damage caused by hurricanes?
4. Why do you think that the amount of damage caused by hurricanes dropped in the 1970s and 1980s despite a steady increase in population during those decades?