Fill in the Blank

1. The difference between the highest and lowest temperatures for any given day is called the daily ______ of temperature.

2. The ______ is the latitude at which days and nights are always of equal length.

3. The sun will be directly above Honolulu, Hawaii (latitude 21°N) ______ time(s) each year.

4. On a clear, calm night, the ground and air above cool mainly by this process: ______ ______.

5. Solar panels on a solar home built in the Northern Hemisphere should face toward this direction: ______.

6. At the North Pole, the sun rises above the horizon on the vernal equinox and stays above the horizon until the ______ ______.

7. The difference between the average temperature of the warmest and coldest month is called the annual ______ of temperature.

8. During January, it is winter in the Northern Hemisphere, and ______ in the Southern Hemisphere.

9. An unseasonably warm spell with clear weather usually near the middle of autumn is often called ______ ______.

10. In the middle latitudes of the Northern Hemisphere, on the summer solstice, the sun rises in the northeast and sets in the ______.

11. List the four necessary conditions for the development of a strong radiation inversion:
    ______ ______ ______ ______.

Multiple Choice

1. In clear weather the air next to the ground is usually ______ than the air above during the night, and ______ than the air above during the day.
   a. colder, warmer
   b. colder, colder
   c. warmer, colder
   d. warmer, warmer