

# WS 29: Temperature Changes in the Atmosphere

*Using the illustration on the other side, answer the following questions with the BEST possible answers.*

- 1) How does temperature change with altitude in the troposphere?
  - a) Temperature increases
  - b) Temperature decreases
  - c) Temperature remains constant
  
- 2) How does temperature change with altitude in the stratosphere?
  - a) Temperature starts low but increases with altitude
  - b) Temperature starts low and decreases with altitude
  - c) Temperature starts high and increases with altitude
  - d) Temperature starts high but decreases with altitude
  
- 3) Select the BEST answer that contrast how temperature changes with altitude in the Stratosphere and Mesosphere. In the lower most parts of both layers remain stable but....
  - a) In the stratosphere temperature increases with altitude while the mesosphere decreases with altitude.
  - b) In the stratosphere temperature decreases with altitude while the mesosphere increases with altitude
  
- 4) Is the temperature profile in the thermosphere more like that of the troposphere or the stratosphere?  
More like the:
  - (1) Troposphere
  - (2) Stratosphere
  
- 5) Select the BEST explanation that answers this from the previous question
  - a) Both show the layers generally decreasing with altitude
  - b) Both show the layers generally increasing with altitude
  
- 6) Where do major shifts in temperature occur in the atmosphere? Major shifts occur:
  - a) At the "pause"
  - b) In the middle of the line
  - c) There is no major shift at all
  
- 7) Would temperatures in the upper troposphere and the stratosphere be comfortable for people?
  - a) YES
  - b) NO
  
- 8) Select the BEST explanation that answers this from the previous question
  - a) The temperatures are slightly cool but comfortable for most people
  - b) The temperatures are lower than zero and too cold for most people.
  - c) The temperatures are higher than 32 degrees and too hot for most people

