

9. The albedo of the moon is 7 percent. This means that:
- 7 percent of the sunlight that strikes the moon is reflected
  - 7 percent of the sunlight that strikes the moon is absorbed
  - 93 percent of the sunlight that strikes the moon is reflected
  - 93 percent of the sunlight that strikes the moon is conducted toward its center
  - 7 percent of the sunlight that strikes the moon is transferred upward by convection
10. Clear, calm nights are usually cooler than cloudy, calm nights because:
- clear skies always contain less water vapor than cloudy skies
  - the clouds start convection currents between them
  - cloud droplets are better conductors of heat than is a clear sky
  - clouds absorb and re-radiate infrared radiation back to the earth's surface
  - water droplets in clouds scatter infrared energy back to the earth's surface
11. Which of the gases below is *not* believed responsible for enhancing the earth's atmospheric greenhouse effect?
- molecular nitrogen ( $N_2$ )
  - carbon dioxide ( $CO_2$ )
  - methane ( $CH_4$ )
  - nitrous oxide ( $N_2O$ )
  - chlorofluorocarbons (CFCs)
12. The law that states that good absorbers of radiation are good emitters of radiation at a particular wavelength:
- the Stefan-Boltzmann law
  - Kirchhoff's law
  - Wien's law