

Vasquez High School -- Physical Science -- Quest #4 -- S' 2015 -- 40 points

Write TRUE if the statement is true OR write the word or words that substitute(s) for the underlined word or words that would make it true. Writing false only earns partial credit. Three points apiece.

- _____ 1) Neon lights are normally a warm yellow color.
- _____ 2) Lasers are needed to produce holograms.
- _____ 3) The angle of reflection always equals the angle of incidence.
- _____ 4) A mirage is caused by light traveling from a distant object thru different frequencies of air, causing it to look closer than it is.
- _____ 5) The bending of light due to it traveling thru different media is called polarization.
- _____ 6) The primary colors of paint are yellow, red and blue.
- _____ 7) The filaments in incandescent light bulbs are most commonly made of silver.

Short Answer / Fill-in. Be neat and complete. Three points each.

8) Give three reasons fluorescent lights are better than incandescent lights:

- a) _____
- b) _____
- c) _____

9) The reason that optical fiber does not lose any of the light pulses traveling thru it is due to

10) Name both categories of reflection and give one example of either (but tell which it is):

11) Laser stands for _____

12) What two quantities need to be divided to find the index of refraction (full names)? _____

13) When an object partially transmits light thru it, we call it _____. When the the light is completely blocked by an object, we say the object is _____. The air and glass transmit nearly all light passing thru them. They are _____.