

Physics I Honors: Chapter 13 Practice Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- ____ 1. Which portion of the electromagnetic spectrum is used in a television?
a. infrared waves
b. X rays
c. radio waves
d. gamma waves
- ____ 2. What is the frequency of infrared light of 1.0×10^{-4} m wavelength?
a. 3.0×10^{14} Hz
b. 3.0×10^4 Hz
c. 3.0×10^{16} Hz
d. 3.0×10^{18} Hz
- ____ 3. What is the wavelength of an infrared wave with a frequency of 4.2×10^{14} Hz?
a. 7.1×10^4 m
b. 1.4×10^4 m
c. 7.1×10^{-4} m
d. 1.4×10^{-4} m
- ____ 4. In a vacuum, electromagnetic radiation of short wavelengths
a. travels as fast as radiation of long wavelengths.
b. travels slower than radiation of long wavelengths.
c. travels faster than radiation of long wavelengths.
d. can travel both faster and slower than radiation of long wavelengths.
- ____ 5. If you are reading a book and you move twice as far away from the light source, how does the brightness at the new distance compare with that at the old distance? It is
a. one-eighth as bright.
b. one-fourth as bright.
c. one-half as bright.
d. twice as bright.
- ____ 6. Snow reflects almost all of the light incident upon it. However, a single beam of light is not reflected in the form of parallel rays. This is an example of ____ reflection off a ____ surface.
a. regular, rough
b. regular, specular
c. diffuse, specular
d. diffuse, rough
- ____ 7. When a straight line is drawn perpendicular to a flat mirror at the point where an incoming ray strikes the mirror's surface, the angles of incidence and reflection are measured from the normal and
a. the angles of incidence and reflection are equal.
b. the angle of incidence is greater than the angle of reflection.
c. the angle of incidence is less than the angle of reflection.
d. the angle of incidence can be greater than or less than the angle of reflection.
- ____ 8. If a light ray strikes a flat mirror at an angle of 14° from the normal, the reflected ray will be
a. 14° from the mirror's surface.
b. 76° from the normal.
c. 90° from the mirror's surface.
d. 14° from the normal.
- ____ 9. When two parallel mirrors are placed so that their reflective sides face each other, ____ images form. This is because the image in one mirror becomes the ____ for the other mirror.
a. multiple, object
b. reduced, virtual image
c. inverted, center of curvature
d. enlarged, focal point
- ____ 10. Which of the following best describes the image produced by a flat mirror?
a. virtual, inverted, and magnification greater than one
b. real, inverted, and magnification less than one
c. virtual, upright, and magnification equal to one
d. real, upright, and magnification equal to one
- ____ 11. When the reflection of an object is seen in a flat mirror, the distance from the mirror to the image depends on

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