Characteristics of Plane Mirror

1. If you stand three feet in front of a plane mirror, how far away would you see yourself in the mirror?

a. 1.5 ft b. 3.0 ft c. 6.0 ft d. 12.0 ft

2. Which of the following best describes the image formed by a plane mirror?

a. Virtual, inverted and enlarged

b. Real, inverted and reduced

c. Virtual, upright and the same size as object

d. Real, upright and the same size as object

3. When the image of an object is seen in a plane mirror, the image is ____.

a. real and upright. b. real and inverted.

c. virtual and upright. d. virtual and inverted.

4. When the image of an object is seen in a plane mirror, the distance from the mirror to the image depends on ____.

a. the wavelength of light used for viewing.
b. the distance from the object to the mirror.
c. the distance of both the observer and the object to the mirror.

5. If a man wishes to use a plane mirror on a wall to view both his head and his feet as he stands in front of the mirror, the required length of the mirror ____.

a. Is equal to the height of the man.
b. is equal to one half the height of the man.
c. depends on the distance the man stands from the mirror.
d. depends on both the height of the man and the distance from the man to the mirror.