

## Answer to Question #51679 - Physics - Optics

### Question

5. If you stand 2 m in front of a plane mirror, how far from you is your image

a. 1 m

b. 2 m

c. 3 m

d. 4 m

6. If a 4-m-tall child stands 2 m in front of a vertical plane mirror, the image of the child will be ----- m tall

a. 1

b. 2

c. 3

d. 4

7. If rays of light parallel and close to the principal axis are incident on a ----- mirror, they converge to a point after reflection from the mirror

a. plane

b. convex

c. concave

d. diffuse

8 What type of mirror would you use to produce a magnified image of your face?

a. plane

b. concave

c. convex

d. diffuse

9 The focal length of a curved mirror is ----- the radius of the spherical surface.

a. twice

b. equal to

c. half

d. one-quarter

10 The image formed by a bathroom mirror is

a. erect and virtual

b. erect and real

- c. inverted and virtual
- d. inverted and real

**Answer:**

- 5. d)**
- 6. d)**
- 7. b)**
- 8. b)**
- 9. c)**
- 10. a)**

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