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WORKSHEET

Name: **Date:**
Grade: IX   **Sub Date:**
Subject: Physics   **Parent's Sign:**

Light

1. Rectilinear propagation is _____

(a) property of travelling in curved lines
(b) property of travelling in straight lines
(c) ability to bend around obstacles
(d) None of these

2. If the angle between the incident ray and the reflected ray is 60°, then the angle of reflection is
(a) 60°   (b) 90°   (c) 30°   (d) 40°

3. When the distance between the object and the plane mirror increases
(a) The image remains at the same position
(b) The size of the image will become less than the size of the object
(c) The distance between the image and the plane mirror increases
(d) The distance between the image and the plane mirror decreases
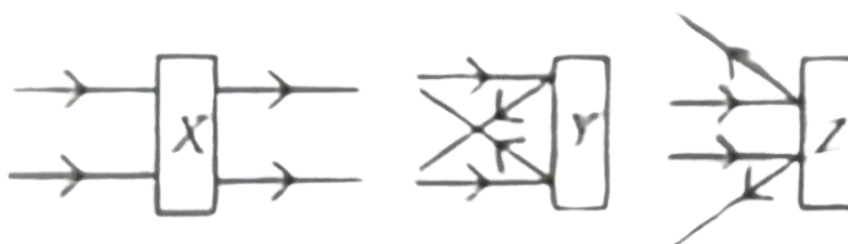
4. How many letters appear to e different when the word "GERMAN" is reflected by a plane mirror?
(a) 2   (b) 5   (c) 4   (d) 3

5. An object of height 6 cm is placed in front of a plane mirror at a distance of 10cm. The height of the image will be
(a) 6 cm   (b) 10 cm   (c) 12 cm   (d) 4 cm

6. Given diagrams show rays of light falling on three different objects X, Y and Z.

	X	Y	Z
(a)	Glass Slab	Concave mirror	Convex mirror
(b)	Convex lens	Concave mirror	Convex mirror
(c)	Glass slab	Convex mirror	Convex mirror
(d)	Prism	Concave mirror	Convex lens

7. Raj is standing in front of a plane mirror. The distance between Raj and his image in the plane mirror is 20 m. How much distance should he move in order to get the distance of 10 m between himself and his image?

(a) 5 m away from the mirror
(b) 5 m towards the mirror
(c) 10 m towards the mirror
(d) 10 m away from the mirror

8. A man looked into a plane mirror on a wall. He saw the image of a clock behind him as shown in the figure.
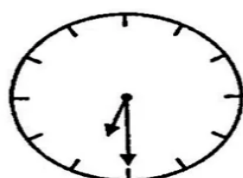
The time shown by the clock was
(a) 5: 30   (b) 6: 30   (c) 12: 05   (d) 1 : 05

9. We are likely to see a rainbow when
(a) it is raining heavily
(b) the sun is shining brightly before a rainfall
(c) the sun shines again after a rainfall
(d) a rainfall is followed by a snowfall

10. A convex lens can be used as a magnifying lens, when the object is placed
(a) at focus   (b) between focus and optic centre
(c) at centre of curvature   (d) at infinity