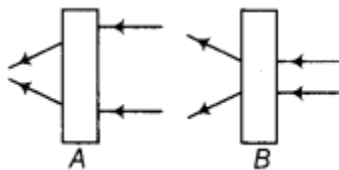


Board – CBSE

Class – 7

Topic – Light

1. It was observed that when the distance between an object and a lens decreases, the size of the image increases. What is the nature of this lens? If you keep on decreasing the distance between the object and the lens, will you still obtain the image on the screen? Explain.
2. The distance between an object and a convex lens is changing. It is noticed that the size of the image formed on a screen is decreasing. Is the object moving in a direction towards the lens or away from it?
3. A shopkeeper wanted to fix a mirror that would give a maximum view of his shop. What type of mirror should he use? Give reason.
4. An erect and enlarged image of an object is formed on a screen. Explain how this could be possible.
5. Two different types of lenses are placed on a sheet of newspaper. How will you identify them without touching them?
6. Observe the given figures.



The given figures show the path of light through lenses of two different types represented by rectangular boxes A and B. What is the nature of lenses A and B?

7. The image formed by a lens is always virtual, erect and smaller for an object kept at different positions in front of it. Identify the nature of the lens.
8. Can an image formed by a convex mirror be taken on-screen? Give a reason for your answer.
9. Why do dentists use concave mirrors?
10. Suppose we wish to obtain the real image of a distant tree. Explain two possible ways in which we can do it.

11. The rearview mirror of a car is a plane mirror. A driver is reversing his car at a speed of 2 m/s. The driver sees in his rearview mirror the image of a truck parked behind his car. The speed at which the image of the truck appears to approach the driver will be _____