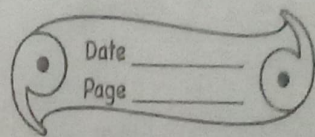


H/W  
30/11/24

## Extra Q/A



### Answers

1) A ray of light: The light given out by a point source spreads in all directions, moving in straight lines. The light travelling in any one direction in a straight line is called a ray of light.

2) A Beam of light: A group of light rays given out from a source is called a beam of light.

2) We can obtain a point source by placing a screen having a fine hole, in front of the luminous body or by placing the luminous body inside a box having a fine hole on one of its sides.

A luminous body such as torch, electric lamp or burning candle emits light and it is called an extended source of light.

3) The two factors that affect the size of image of pin hole camera are:

→ The distance of screen (i.e. tracing paper) from the pin hole.

→ The distance of object (i.e. candle) in front of the pin hole.

4) The image obtained on a pin hole camera is inverted because of the rectilinear propagation of light. Hence, light from the upper point A of the candle passes through the pin hole and strikes the tracing paper at A'. Similarly, light from the lower point B of the candle passes through the pin hole and strikes the tracing paper at B'. Light rays from all the other points between A and B, on passing through the pin hole, strike the tracing paper in between A' and B'. As a result, an inverted image of the candle is seen on the tracing paper.