

Homework

Define the terms: a ray of light and a beam of light.

Ans- ray of light - A light wave propagating in a straight line ~~passing~~ ^{going through} from one ~~pair~~ ^{point} to another ~~point~~ ^{and joining} all the points on the line ^{the two points} is called a ray of light.

a beam of light - A bundle of rays parallel to each other is called a beam of light.

How can you obtain a point source of light?
Ans- To obtain a point source of light, ~~we have to keep~~ we have to place a luminous body in front of a hole or inside a box with fine hole.

State two factors which affect the size of image formed in a pin hole camera. Is the image obtained in it erect or inverted? Give reason for your answer.

Ans- Two factors affecting the size of image formed in a pin hole camera -

1. Distance of the screen from pinhole.
2. Distance of the object in front of pinhole.

The image obtained in pinhole camera is virtual because when the light emitted/reflected by a luminous/non-luminous

body enters into the pin hole, the light coming from upper side intersect and then ~~div~~ diverge, hence, the image formed is inverted.