

## Homework

1. The motion of light in a straight line path is called the rectilinear propagation of light.

2. Pin hole camera is a simple application of the rectilinear propagation of light.

~~3.~~

3. Factors affecting the size of the image ~~for~~ formed in a pinhole camera:

1. The distance of screen from the pin hole.

2. The distance of object in front of the pin hole.

Image formed by Pinhole camera

From the above construction, let's discuss the characteristics of the image formed by a pinhole camera:

1. The size of the image formed by the pinhole camera is smaller than the size of the object and appears inverted on both vertical and horizontal axis when compared with the actual object.
2. The image formed is real because it is visible on the screen.

3. The rays coming from an object converge to pass it through the hole of the pinhole camera.

4. The size of the hole determines the sharpness of the image that means less the size of the hole, sharper the image will be, and vice versa.

A limit size of a hole...