

PINHOLE CAMERA QUESTIONS

1. If an object is 7.0 cm tall, and it is 15.0 cm in front of a pinhole camera whose $d_i = 6.0$ cm, calculate the height of the image.

2. A candle is 4.3 cm tall. If a pinhole camera is 15.0 cm in length, where would the candle be found if its image is 6.7 cm high.

3. Calculate the size of the image of a tree that is 8.0 cm high and 80 m from a pinhole camera that is 20 cm long.

4. Calculate the distance from the pinhole to an object that is 3.5 m high, and whose image is 10 cm high in a pinhole camera 20 cm long.

2. Use a ray diagram to show how the light forms the image in the pinhole camera.

