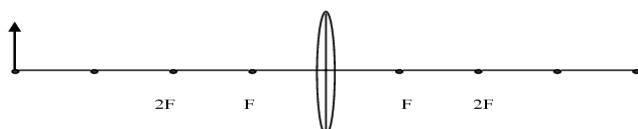


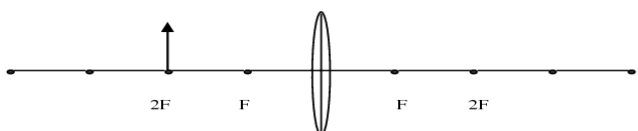
### Convex Lenses Practice Worksheet

For each problem below, draw the ray diagram for the lens. Then use the thin lens equation and magnification equation to determine image distance and height. Last, describe the image formed (inverted or erect, enlarged or reduced, real or virtual). For question #6, you will also practice constructing a ray diagram from scratch.

1. A 15.0 cm object is placed 60.0 cm from a convex lens, which has a focal length of 15.0 cm.



2. A 15.0 cm object is placed 30.0 cm from a convex lens, which has a focal length of 15.0 cm.



3. A 15.0 cm object is placed 16.0 cm from a convex lens, which has a focal length of 15.0 cm.

