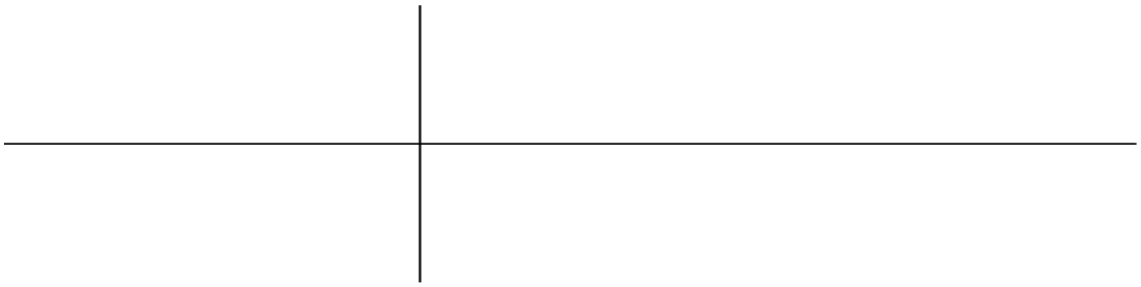
Name _____

PHYSICS WORKSHEET - SPHERICAL LENS CONSTRUCTIONS

Carefully construct a ray diagram for each of these problems, showing the object, the image and all of the missing values or measurements.

1. An object 4 cm high is placed 20 cm in front of a converging (convex) lens with a 12 cm focal length. A 1:4 scale is suggested.

   d_i = _____ cm, h_i = _____ cm, m = _____



2. An object is 5 cm in front of a convex lens of focal length = 7.5 cm. h_o = 11 cm. Pick a convenient scale.

   d_i = _____ cm, h_i = _____ cm, m = _____