Read/Study Chap 33: 33.1 and 33.2 especially look over figures 33-3, 33-6 and 33.9

Questions to be handed when due.

1. The distance of an object from a lens is called the?
2. The mathematical symbol used in question 1 is?
3. The distance of the image that a lens projects to a screen is called the?
4. For a converging lens the height (size) of the original object it is projecting we use the symbol $h_{0}$ and the image height we use $h_{i}$. The lateral magnification $m$ is given by the formula?
5. If $d_{o}$ is the distance of the object of a thin lens of focal length, $f$, and $d_{i}$ is the image distance than the relation between them all is known as the?
6. What is the formula for the relation in question 2 ?

Problem to hand in with your lab report: Show all work (formulas and math used)

P1. An object 23 cm high, lies 50 cm from a thin converging lens, which projects an image of the object on a screen locate 125 cm from the object.
a) What is the focal length of the lens?
b) Is the image bigger or smaller than the object?
c) What is the size of the object?
d) From your work is the image inverted or right side up?

