

# Chapter 26

## Images and Objects

- 26.1 (a) 1 meter off the floor. (b) 75 cm off the floor, (c) the top 50 cm of the meter stick
- 26.2 The right part of Figure 26.3 shows where the object is. Your picture should look like the right part of the figure.
- 26.3 Again, the right part of Figure 26.4 shows where the object is. Your picture should look like the right part of the figure.
- 26.4 Again, the right part of Figure 26.5 shows where the object is. Your picture should look like the right part of the figure.
- 26.5 One cannot tell without knowing more information
- 26.6 The image (the observer is off to the right)
- 26.7 (a) Virtual, (b) real
- 26.8 (a) Yes (give an example), (b) For the situations described thus far, the answer is no. However, the answer can be yes if the light is *converging* when it hits the lens/mirror (can you think of a case when this might be?)
- 26.9 (a) the image, (b) inverted
- 26.10 (a) The ray diagram should look like Figure 26.10a, with the object (O) far away from the lens, (b) closer than the mountains, farther than the lens

26.11 A near-sighted person

26.12 On the other side of the mirror (and closer to the mirror than the object distance)