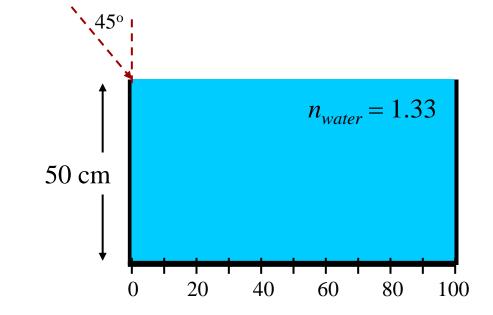
## Exercise

A meter stick lies at the bottom of a rectangular water tank of height 50cm. You look into the tank at an angle of 45° relative to vertical along a line that skims the top edge of the tank.

What is the smallest number on the ruler that you can see?



## **Conceptual Analysis:**

- Light is refracted at the surface of the water

## Strategy:

- Determine the angle of refraction in the water and extrapolate this to the bottom of the tank.