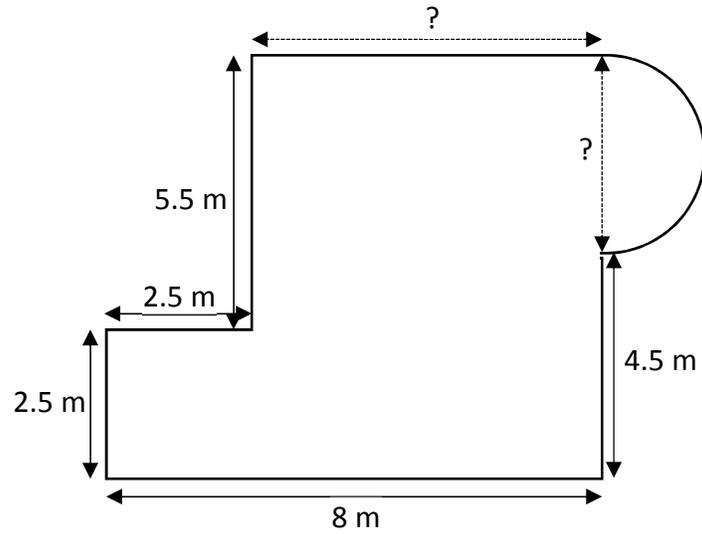
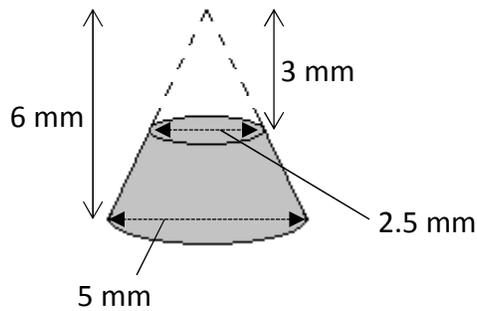


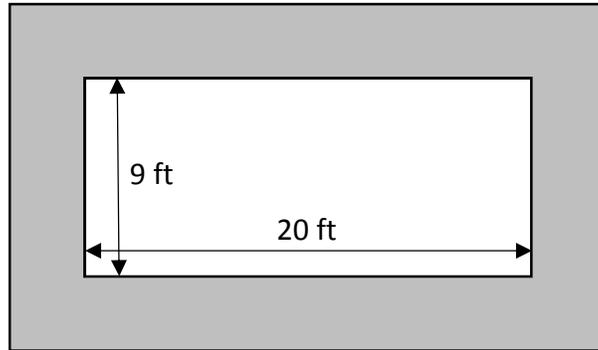
2. You want to lay tiles on the main part of your basement floor. The floor plan is shown below (not to scale). What is the area of the space that is to be tiled? (HINT: Determine the missing measurements FIRST.)



3. Find the volume of the shaded section of the diagram below (not to scale):



4. Cynthia wants to put a cement walkway around the outside of her yard. The walkway is **4 feet wide** on each side. The walkway is the shaded part of the diagram below:



- a) In order to make room for the cement blocks for the walkway, Cynthia has to have the grass and dirt removed to a depth of 3 in. Calculate the volume of dirt and grass to be removed, in ft^3 .
- b) The person she hires to remove the dirt and grass needs to know how much material needs to be removed in cubic yards. Convert your answer to question a) to cubic yards.
- c) The person making and delivering the concrete blocks needs to know the area to be covered with the blocks. Calculate the area of the shaded part of the diagram above.