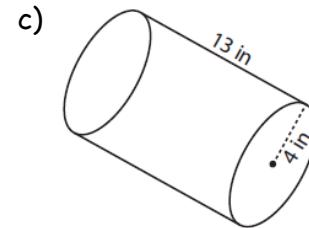
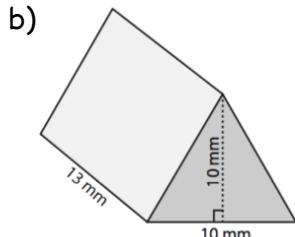
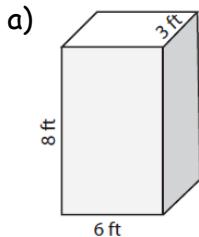
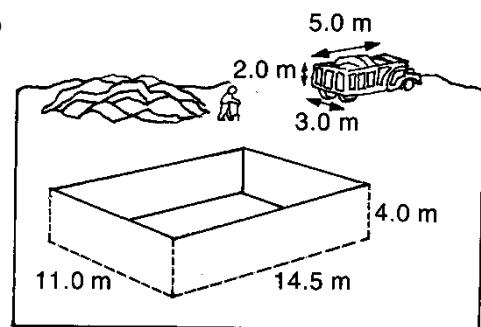


## Volume of Prisms

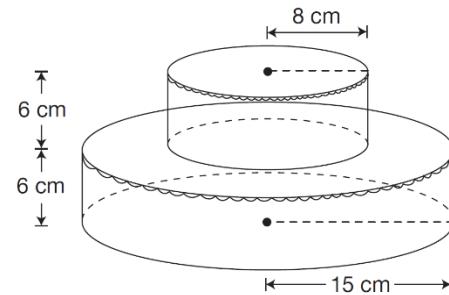
1. Determine the volume of the following shapes. Please show all calculations used.



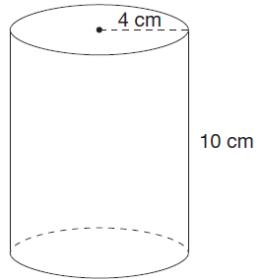
2. Trucks are needed to carry away the dirt from the excavation for a house. The dimensions of the basement and the trucks necessary to carry away the material have the dimensions shown. About how many level truck loads are necessary to remove all the dirt?



3. A cake is made of two cylindrical layers stacked on top of each other as pictured below. What is the total volume of dough required to make the two layers of this cake?



4. Orange Dream sells drinks in two sizes of cylindrical cans. The smaller can is pictured below. The larger can has the same height and a radius that is **triple** the radius of the smaller can. How many times larger is the volume of the larger can than that of the smaller can?



5. A triangular piece of cheese has a volume of  $146.4 \text{ cm}^3$ . Find the thickness,  $t$ , of the cheese.

