

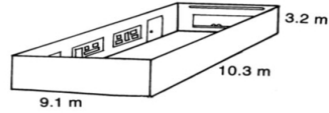
### Surface Area & Volume – Word Problems

1. A classroom has the dimensions shown.  
Find:

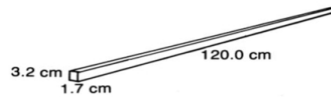
(a) the area of the floor

(b) the volume of the room

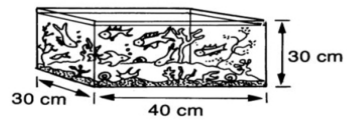
(c) the total area of the four walls.



2. If  $1 \text{ cm}^3$  of iron has a mass of 7.52 g, what is the mass of an iron bar of rectangular cross section with the dimensions shown?



3. If one guppy requires 5 L of water to live happily, what is the maximum number of guppies that should be kept in this aquarium?



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

