## Volume of a liquid in a cuboid worksheet

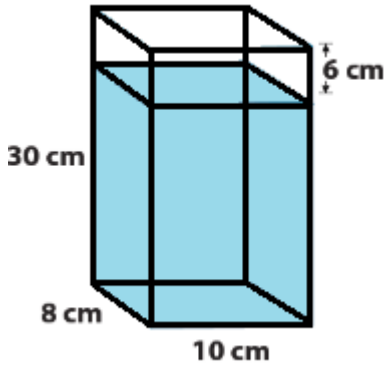
**1)** A rectangular container with a base area of 200 $cm^2$ is filled with water to a height of 15 cm. If the container has a height of 20 cm, how much water (in liters) should be added to it to fill it completely?

**2)** Peter built a rectangular cardboard box 18 cm high with a square base and a volume of 2178 $cm^3$. Then he realized he did not need a box that large, so, he chopped off the height of the box reducing its volume to 1331 $cm^3$. Was the new box cubical? Express the volume of the new box in liters.

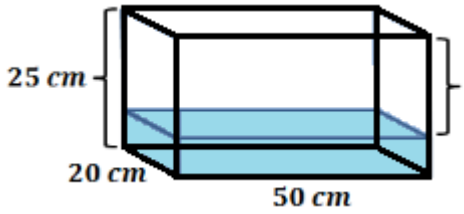
**3)** A rectangular container has a base area of 450 $cm^2$ and a height of 25 cm. Gale adds water in it. If he uses 6.75 liters of water, what volume of water would fill the remaining part?

**4)** The water level in a rectangular tank 65 cm long and 45 cm wide is 14 cm. It will take another 58.5 liters of water to fill the tank to its brim. Find the height of the tank.

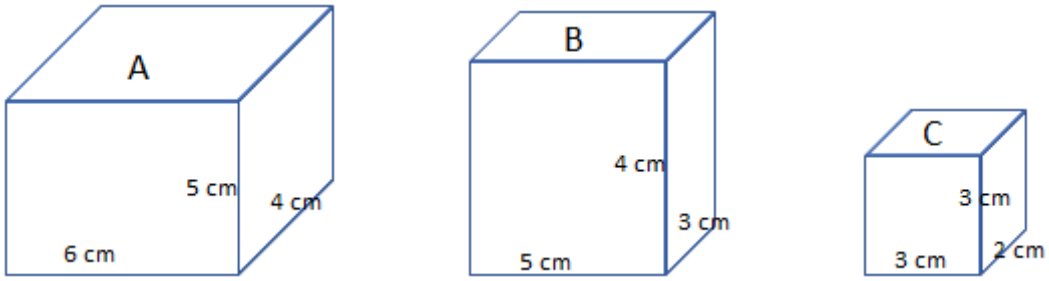
**5)** A glass container is in the form of a right rectangular prism. The container is 10 cm long, 8 cm wide, and 30 cm high. The top of the container is open. The water in the container is 6 cm from the top of the container. What is the volume of the water in the container?




**6)** 5.5 L of water are poured into a container in the shape of a right rectangular prism. The container is 50 cm long, 20 cm wide, and 25 cm tall. How far from the top of the container is the surface of the water? (1L = 1000 $cm^3$)



**7)** Container A is filled with water to its brim while containers B and C are empty. Next, some water from Container A is poured into containers B and C so that Container B is completely full while Container C is half full. Find the height of the water left in Container A.




**8)** A fish tank A holds 60 L of water and fish tank B is 40 cm length, 20 cm width and 60 cm height. Which tank can store more water? Find the difference between their capacities.