



Name: _____

Date: _____

Problem Sum Worksheet

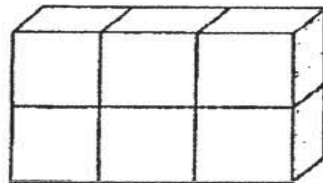
Topic : Volume



Video Solution: <https://www.omyclassroom.com/volume-56.html>

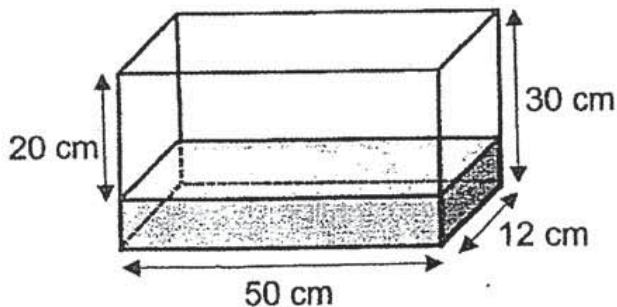
Topic 1 : Cubes – Qn 1 (Difficulty: Low)

The solid below is made up of 6 identical cubes of edge 5 cm. What is the volume of the solid?



Topic 2 : Cuboids – Qn 1 (Difficulty: Low)

A tank measuring 50 cm by 12 cm by 30 cm is filled with some water as shown below. Find the volume of water in the tank.



Topic 3 : Transferring of water – Qn 1 (Difficulty: High)

A tank is $\frac{2}{3}$ filled with water. Some water from the tank is poured into an empty container measuring 20 cm by 30 cm by 15 cm to fill it up. 168 cm³ of water is left in the tank. What is the capacity of the tank?

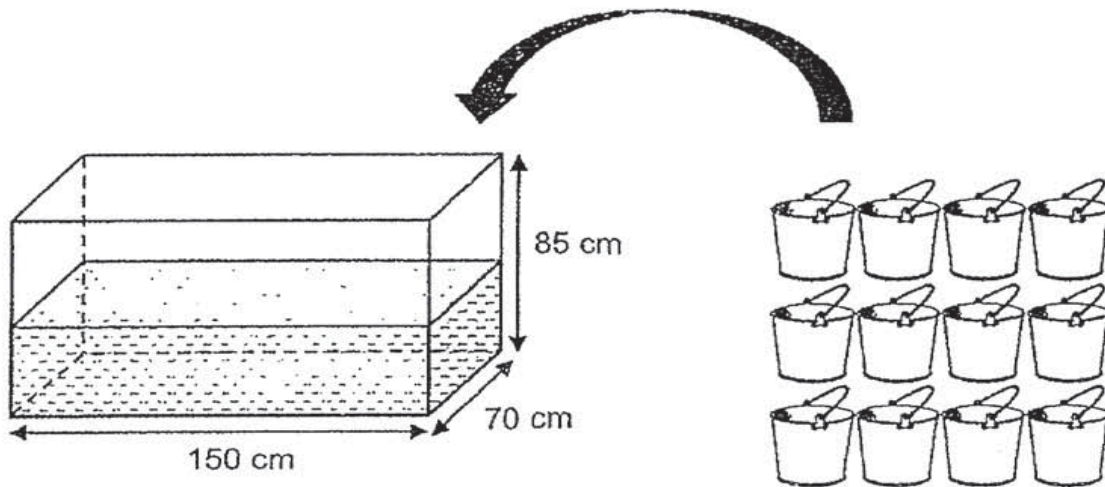
Topic 3 : Transferring of water – Qn 2 (Difficulty: Medium)

240 ml of water can fill exactly 3 similar jugs or 2 similar kettles.

- (a) When each jug is completely filled, how much water can it hold?
Leave your answer in ml.
- (b) When 3 such kettles are completely filled, water from the 3 kettles is poured into 18 glasses. Each glass contains 150 ml of water. How much water is left in the 3 kettles?

Topic 3 : Transferring of water – Qn 3 (Difficulty: High)

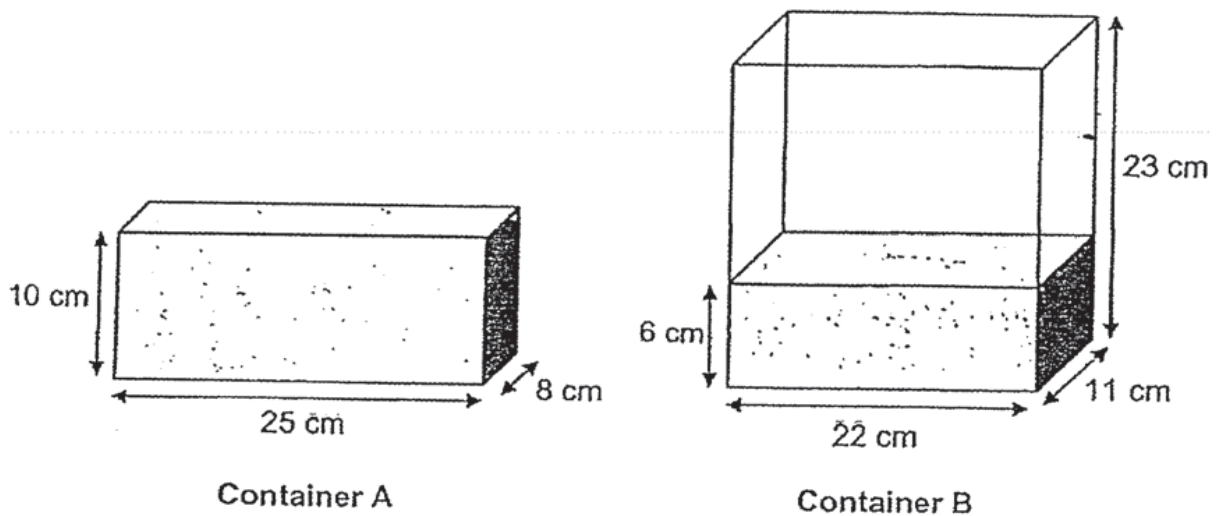
A rectangular tank measuring 150 cm by 70 cm by 85 cm high was $\frac{2}{5}$ -filled with water. Mrs Tan poured 12 pails of water, each containing the same volume of water, into the tank. In the end, there was 615 ℓ of water in the tank. What was the volume of water in each pail? Give your answer in litres.



Topic 3 : Transferring of water – Qn 4 (Difficulty: High)

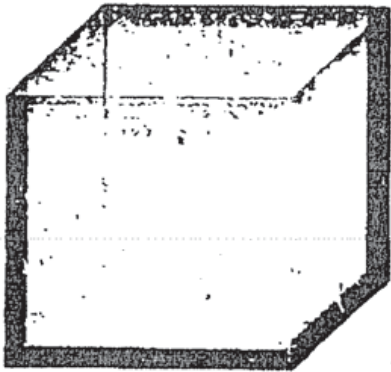
Container A is completely filled with water and Container B is filled with some water. Half of the water from Container A is poured into Container B.

- (a) How much water is there in Container B now? Give your answer in millilitres.
- (b) After half of the water was transferred from Container A to Container B, Mr Lim wants to fill Container B with water to the brim. How much more water does he need? Give your answer in litres.

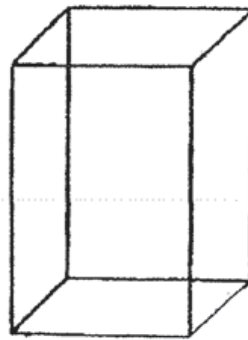


Topic 3 : Transferring of water – Qn 5 (Difficulty: Medium)

Tank A, a cubical tank of edge 13 cm, was completely filled with water. Water was then poured from Tank A to an empty Tank B measuring 9 cm long by 11 cm wide by 13 cm high until Tank B was filled to its brim. How much water was left in Tank A?



Tank A



Tank B

Topic 3 : Transferring of water – Qn 6 (Difficulty: Medium)

Container X is $\frac{1}{5}$ filled with water. John pours more water into Container X by using 3 cubical containers of length 11 cm, making Container X to be $\frac{3}{4}$ filled.

- Find the capacity of Container X in litres.
- How many more litres of water must John pour into Container X to fill it to the brim?

