PRIMARY FIVE

MATHEMATICS WORKSHEET 2 

CHAPTER 14: VOLUME

NAME : _____ ( )

CLASS : Primary 5 _____ Date : _____

Section B2

For each question, show your workings, if any, clearly in the space below it. Write your answer in the blank provided. Give your answer in the stated unit.
The use of calculator is allowed.

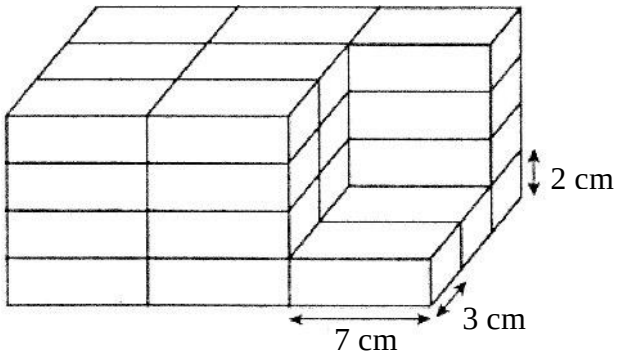
1. Find the volume of a rectangular box whose base area is 16 cm^2 and its height is 12 cm.

Answer: _____cm^3

2. A cubical container is half-filled with water. If the volume of the water in the container is 500 cm^3, what is the length of one side of the container?

Answer: _____cm

3. The solid shown below is made up of identical rectangular blocks. What is the volume of the solid?



Answer: _____cm^3

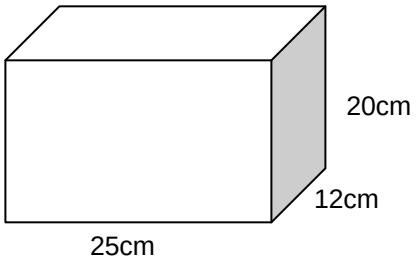
4. The rectangular box measures 12 cm by 10 cm by 4 cm. How many cubes of side 2 cm is needed to fill the box?

Answer: _____

5. A rectangular metal block is melted and recast into 12 cubes of side 7 cm each. What is the volume of the metal block?

Answer: _____cm^3

6. A rectangular container measures 25 cm by 12 cm by 20 cm. When sand is poured into the container, it fills the container to a height of 14 cm. How much more sand is required to fill up the container completely?



Answer: _____cm^3

Section B3

For each question, show your workings clearly in the space below it. Write your answer in the blank provided. **The use of calculator is allowed.**

7. Jenny poured some water into a cubical glass container of side 20 cm. The water level in the container was 12 cm. After 2 ℓ of water was taken out from the container, what was the height of the water in the glass container?

Answer: _____

8. The volume of the cuboid is 6 times the volume of a cube. If the cuboid measures 16 cm by 16 cm by 12 cm, what is the length of each side of the cube?

Answer: _____

9. Find the maximum number of 4-cm cubes that can be put into a rectangular tank measuring 35 cm long, 26 cm wide and 10 cm high.

Answer: _____

10. A rectangular container, 30 cm long and 15 cm wide, was $\frac{1}{2}$ filled with water. Azri had to pour another 900 cm³ to make it $\frac{3}{4}$ full.

(a) How much water was in the container when it was $\frac{3}{4}$ full?

(b) What was the height of the rectangular container?

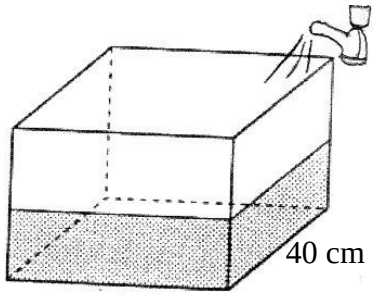
Answer: (a) _____

(b) _____

11. A rectangular tank 60 cm long and 40 cm wide is $\frac{2}{5}$ filled with water. The volume of water in the tank is 24 ℓ.

(a) What is the height of the tank?

(b) A tap is turned on to continue to fill the tank completely with water. If it takes 4 minutes to fill the tank to the brim, find out how much water flows out from the tap in one minute. Express your answer in litres.



Answer: (a) _____

(b) _____