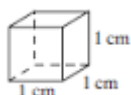


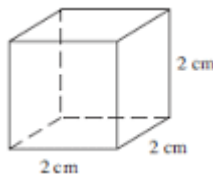
PHYSICS – Grade 8 Worksheet

1. Volume is a physical property.
 - a. Define volume.
 - b. Give the SI unit of volume.
 - c. Give 3 other units of volume.
2. Convert the following.
 - a. $33000 \text{ mm}^3 = \dots\dots\dots \text{cm}^3$
 - b. $25 \text{ m}^3 = \dots\dots\dots \text{cm}^3$
 - c. $1.3 \text{ cm}^3 = \dots\dots\dots \text{mm}^3$
3. There are 2 types of solids: regular and irregular.
 - a. What is meant by a regular solid?
 - b. Give 4 examples of regular solids.
 - c. Calculate the volume of the following solids:

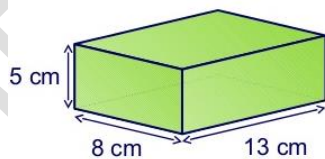
(i)



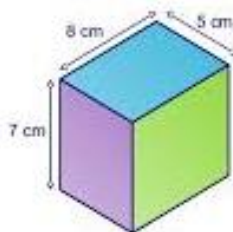
(ii)



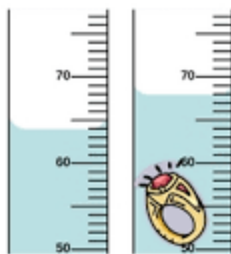
(iv)



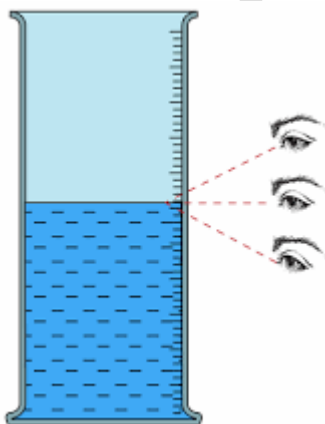
(v)



4. The volume of an irregular solid is found by the displacement method.
 - a. Give 2 examples of irregular solid.
 - b. The volume of a ring is determined by the displacement method and parts of the measuring cylinder before and after placing the ring in the water are shown below.



- i. List 3 precautions to be taken in this method.
 - ii. Calculate the volume of the ring.
5. One common error in measurement is parallax error.
- a. What is meant by parallax error?
 - b. How can parallax error be avoided?
 - c. What is the correct position of the eye when reading the volume below.



6. Density is another physical property.
- a. Define density.
 - b. Give the SI unit of density.
 - c. Convert the following:
 - i. $2.34 \text{ g/cm}^3 = \dots\dots\dots \text{kg/m}^3$
 - ii. $0.345 \text{ g/cm}^3 = \dots\dots\dots \text{kg/m}^3$
 - iii. $1100 \text{ kg/m}^3 = \dots\dots\dots \text{g/cm}^3$
 - iv. $987 \text{ kg/m}^3 = \dots\dots\dots \text{g/cm}^3$