**Measuring the Volume of a Regular Object**

In this lab you will find the **volume** of objects with cubic or rectangular shapes using the formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (or L x W x H) . The proper units to use when calculating the volume of a solid are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Practice:**

Length: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Width: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm3

**Materials:**

* Ruler, calculator, regular shaped objects (rectangular and cubic objects)

**Procedures:**

1. Choose a block to measure.
2. Measure the **length** of the block. Each block will be slightly different. REMEMBER: use centimeters, NOT inches, and measure to the closest **mm**. Record this number in the table below under “Length of block”
3. Measure the **width** of the block and record that number in the table below under “Width of Block”.
4. Measure the **height** of the block and record that number in the table below under “Height of Block”.
5. **Multiply** the three numbers together to find the volume of the block. Record the answer under “Volume”.
6. **Repeat** the process for 3 more objects.

**Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Length of Block** | **Width of Block** | **Height of Block** | **Volume of Block** |
|  | **cm** | **cm** | **cm** | **cm3** |
|  | **cm** | **cm** | **cm** | **cm3** |
|  | **cm** | **cm** | **cm** | **cm3** |
|  | **cm** | **cm** | **cm** | **cm3** |

**Analysis:**

1. Why are the volumes of the blocks measure in *cubic* centimeters? Explain.

2. What is the difference between a **regular** object and an **irregular** object?

3. Explain *how* to measure to volume of a regular object.

4. Explain *how* to measure the volume of an irregular object.

**Conclusion:**

I learned that…

I also learned that…