***Volume Lab work*  *Name: \_\_\_\_\_\_\_\_\_\_\_***

**Review:**

1. Find the surface area of a cube that has the following dimensions:

3 cm x 3 cm x 3cm (remember to multiply all 6 sides!)

**Volume:**

1. What is volume?
2. What **two** units are used to measure volume?
3. What two ways do you find the volume of a shape?

i)

ii)

1. Find the volume of a shape that has the following dimensions:
2. 3 cm x 3 cm x 3cm
3. 5.4 cm x 3.2 cm x 7.0 cm

**Part B**: Find the volume of the following shapes by using your ruler (cm ) and your graduated cylinder (mL).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OBJECT** | **Dimensions**  **Ex. 3.1 x 2 x 4 cm** | **Total volume**  **in cm** | **Graduated Cylinder: Before and After** | **Total volume**  **in mL** | **Are they the same measurements Yes or No?** |
| A |  |  |  |  |  |
| B |  |  |  |  |  |
| C |  |  |  |  |  |
| D |  |  |  |  |  |
| E |  |  |  |  |  |
| F |  |  |  |  |  |
| G |  |  |  |  |  |

Conclusion:

1. How do you measure the volume of any shape using a graduated cylinder?

Bonus:

Calculate the volume of a cylinder with a radius of 3 cm and a height of 7 cm. (show your work)

**CONCLUSION STATEMENT:**

1. What was the point of this experiment or in other words why did we do it? (2 sentences – 4 marks)

2. Elaborate on at least 2 problems that you encountered in the experiment (4 marks)

3. What would you do in the future to improve this lab? (2 marks)