**Measurement Lab**

**Purpose:**

To learn and practice how to estimate measurements.

To practice with the metric system.

**Materials:**

Objects around the room listed below. A meter stick. A calculator.

**Procedure:** **Step 1**

Estimate the measurements asked for on the following objects by comparing them to

the measurements of a known object. Show the teacher when estimates are completed.

**Step 2**

Complete actual measurements **and** show the teacher when completed.

**Estimate the following:** **Don’t Forget the units of measure in your answer!!**

|  |  |  |  |
| --- | --- | --- | --- |
| **Object** | **Measure** **its...** | **Step 1:**  **Estimation Measurement** | **Actual Measurement** |
| The **table** you are sitting at. | height in **meters (m)** |  |  |
| The **table** you are sitting at. | length in **centimeters (cm)** |  |  |
| The **table** you are sitting at. | width in **centimeters (cm)** |  |  |
| Classroom | length in **meters (m)** |  |  |
| Classroom | width in **meters (m)** |  |  |
| Classroom | height in **meters (m)** |  |  |
| Hall classroom window | length in **millimeters (mm)** |  |  |
| Hall classroom window | width in **millimeters (mm)** |  |  |
| A classmate | height in **centimeters (cm)** |  |  |
| A sheet of paper | height in **millimeters (mm)** |  |  |

**Thoroughly answer the following questions.**

1. Explain the process or comparisons you used to estimate the measurements of the objects.

2. Which was the hardest estimation for you to make? Explain.

3. Area is equal to the length x width.

**A= l x w**

Using your data from the chart, what is the..

Area of the table: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area of the hallway classroom window: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Volume is equal to the length x width x height

**V= l x w x h**

Using the data from the chart, what is the volume of the room? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. What kind of general conclusion can you make about length, area, and volume when

comparing the data?