

## Calculations with SigFigs. Lab

Names:           DATA           \_\_\_\_\_

---

Purpose: To make calculations with the correct number of significant figures.

1. Measure the length, width, and height of the box (or block) in centimeters. Record your measurements with the correct number of significant figures and units.

	<b>Measurement with Sig Figs AND Units!</b>
<b>Length</b>	<b>8.45 cm</b>
<b>Width</b>	<b>4.55 cm</b>
<b>Height</b>	<b>6.22 cm</b>

Calculate the volume of the block and report your answer to the appropriate number of significant figures and units.  $V = L \times W \times H$

<b>VOLUME of Block</b>	
------------------------	--

2. Fill your 100 mL graduated cylinder with APPROXIMATELY 40 mL of water and record the ACTUAL amount with the correct number of significant figures and units. Carefully add the lead weight to the graduated cylinder. Record the new volume to the correct number of significant figures and units. Calculate the volume of the lead weight and report your answer to the appropriate number of significant figures and units.

<b>Actual Volume of Water</b>	<b>Volume of Water AND Lead Weight</b>	<b>Volume of Lead Weight</b>
<b>40.5 mL</b>	<b>43.6 mL</b>	