

Lab: Determining the volume of a cylinder incorporating significant figures**Significant Figures in measurement and calculations.**

Students were tasked with determining the volume of Styrofoam using the inserts for Clark's class set of Calorimeters.

The challenge was to correctly record the required dimensions incorporating the rules of significant figures and then following the RULES of significant figures as they went through the calculations.. including the final calculation.

Deliverable is simply a clean, 'one-pager' including the following;

A nice drawing of the Styrofoam insert showing the measurements recorded to the correct number of significant figures (centimeters).

A sentence that describes each math step (i.e.; Determine the volume of the outer cylinder).

Then show the equation you will use..

Then rewrite the equation with YOUR values..

The write a sentence citing 'the rule' for significant figure usage in this step (i.e., when multiplying... do this.. when adding..do this, etc.).

And your final answer as it appears on your calculator and then a 'highlight' (or box) illustrating WHICH numbers you are allowed to keep.

A rewrite of the final answer with, of course, the correct number of significant figures.