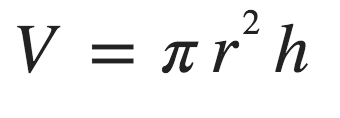
**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**How Many M&M’s Can Fit?**

* **Goal:** Students will understand how to find the volume of given objects using the formula provided.
* **Objectives:**
  + Given the materials, students will find the volume of the given object, which in this case is a cylinder.
  + Using the volume, students will figure out how many M&M’s fill up the object.
  + Using this information, students will understand that the volume and the number of M&M’s per object go hand in hand.
* **Materials:**

|  |  |
| --- | --- |
| Cylinder objects   * Small glass flower vase * Empty can of soup * Garbage can (clean obviously ☺) | * Formulas * M&M’s * Graphing paper * Ruler * Calculator |

**A little review:***Definition of volume:*the amount of space that a substance or object occupies, or that is enclosed within a container

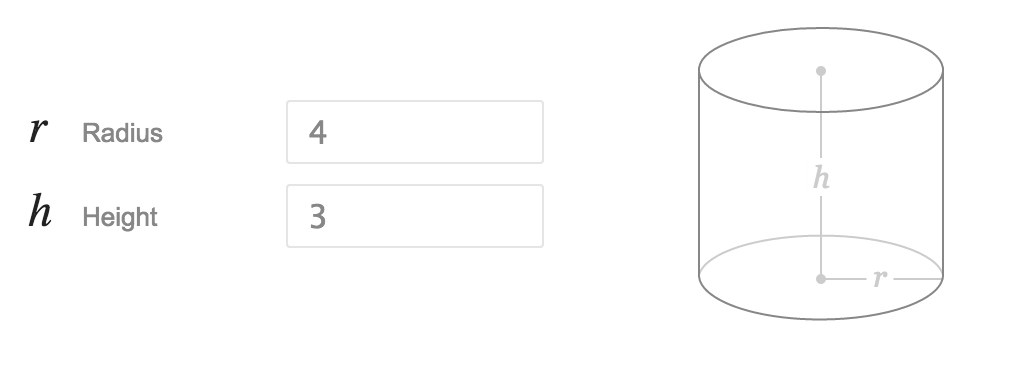
**

*The formula for the volume of a cylinder is:*

**Where: r= the radius and h= height**

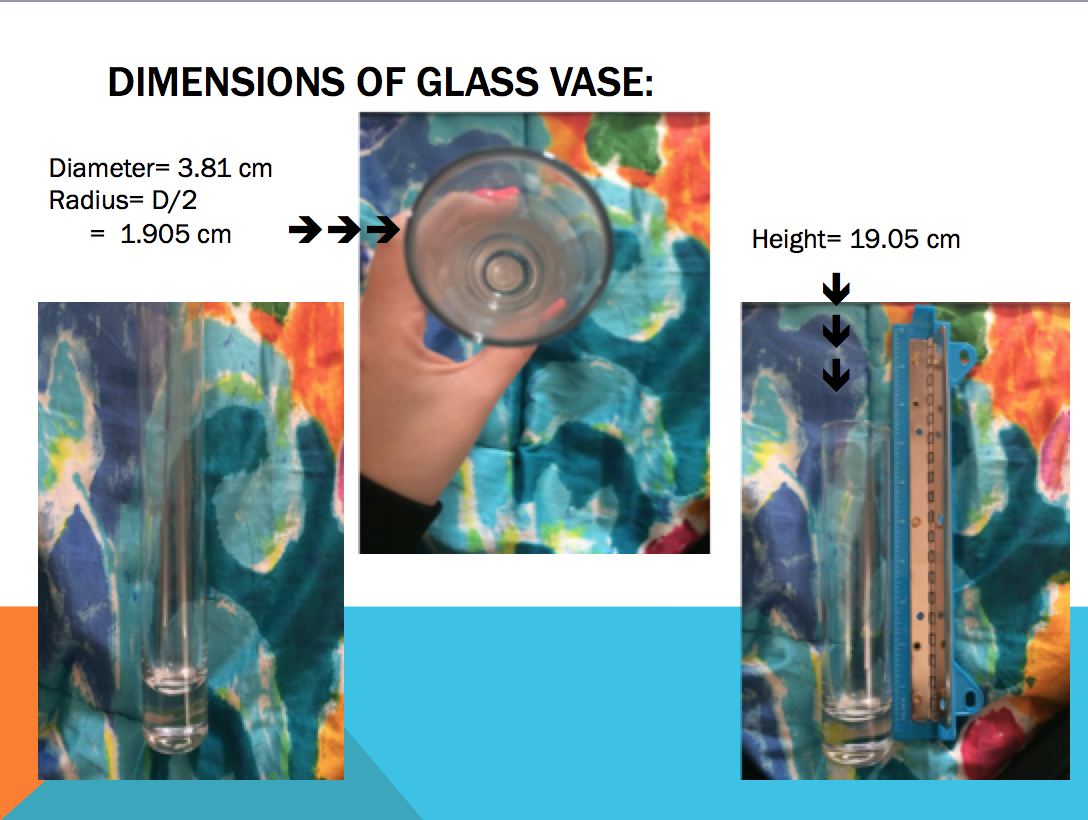
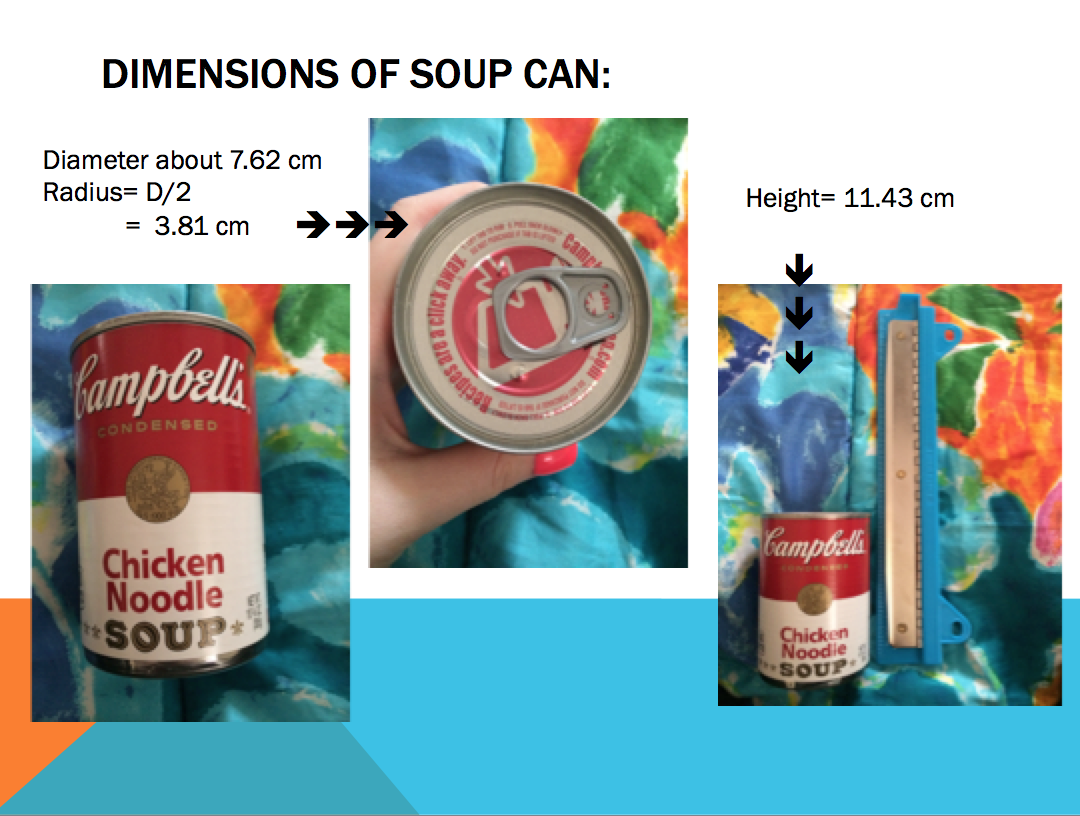
**Questions:**

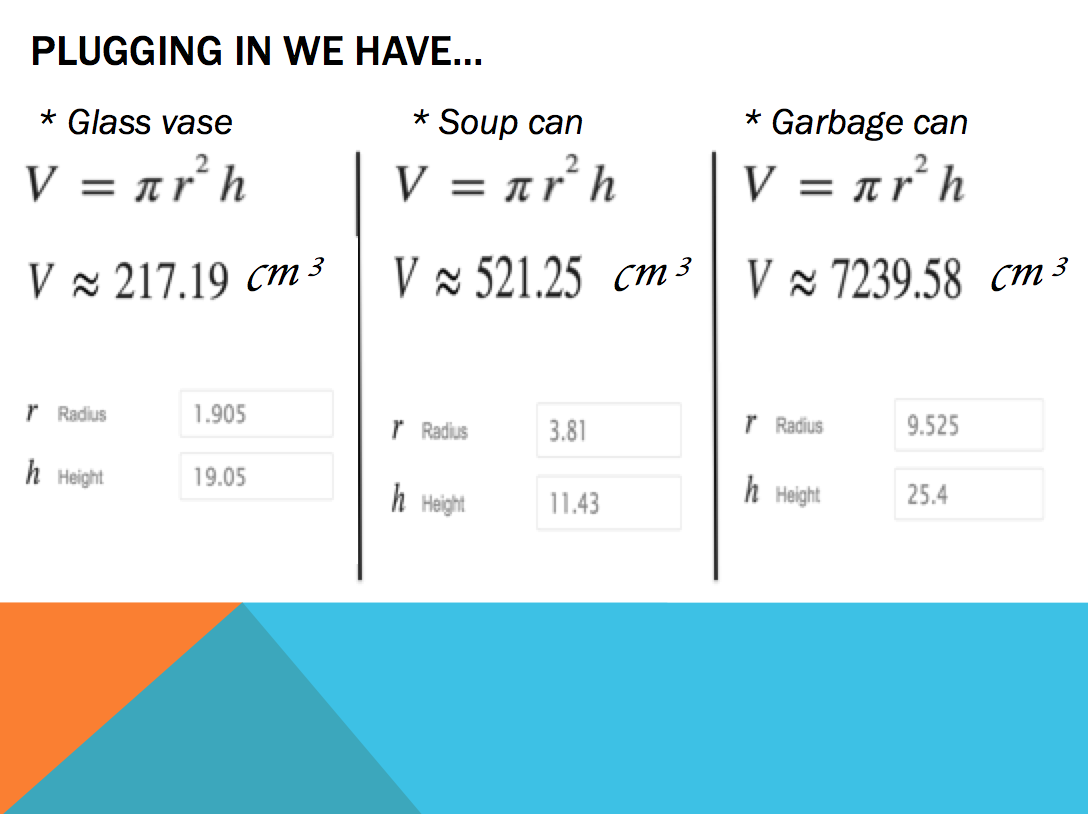
1) Find the volume below:

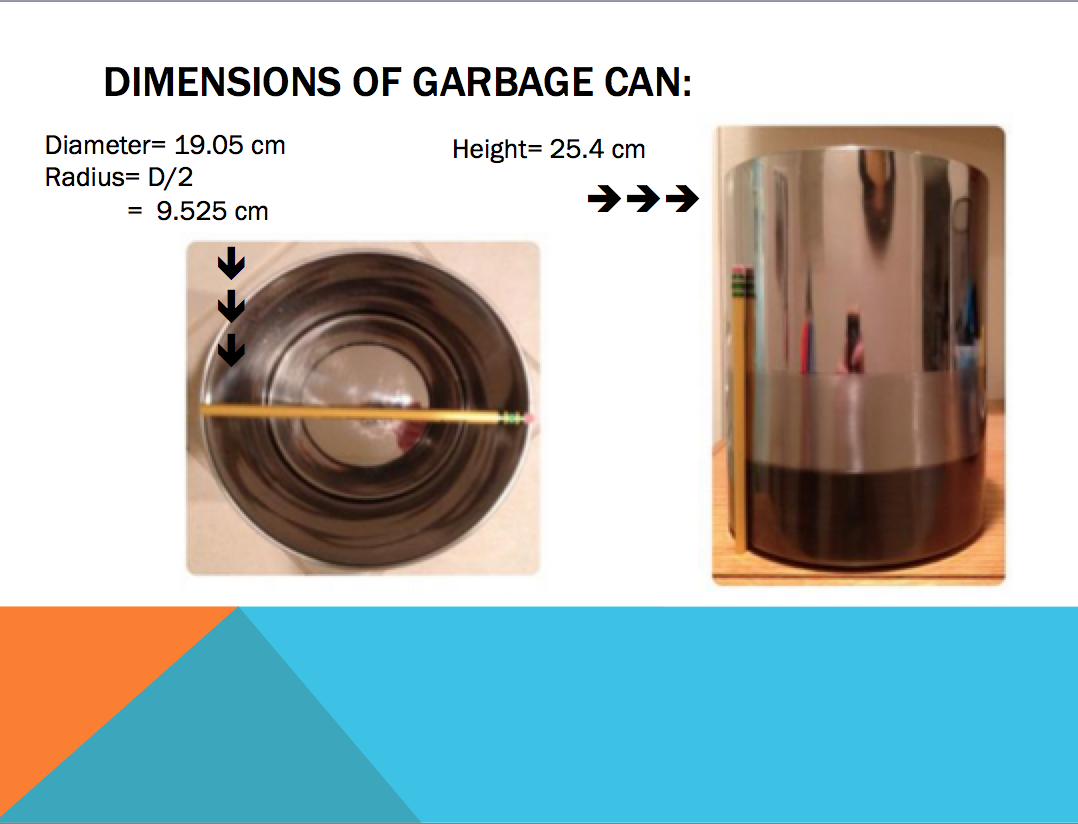
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**Steps:**

1. FIND THE DIMENSIONS OF YOUR CYLINDER
2. PLUG IN DIMENSIONS INTO THE VOLUME OF A CYLINDER FORMULA
3. FIND THE VOLUME AND LABEL APPROPRIATELY
4. FILL THE CYLINDER WITH M&M’S
5. COUNT THE M&M’S AND GRAPH!
6. THINK ABOUT THE RELATIONSHIP BETWEEN THE VOLUME AND NUMBER OF M&MS

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