

NOTES: LESSON 8.1 – VOLUME w/ BASIC PROBLEMS

Learning Goal: I can solve basic problems involving the **volume** of a cylinder, cone, and sphere.

Meta de Aprendizaje: Puedo resolver problemas básicos relacionados con el **volumen** de un cilindro, cono y esfera.

Language Goal: I can discuss with a partner how to calculate the **Area of the Base, B**, and write an explanation.

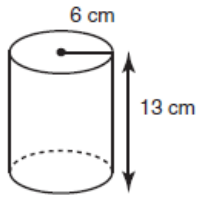
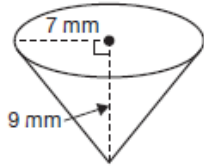
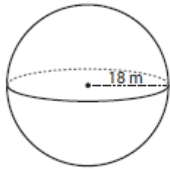
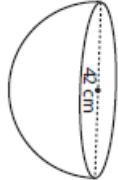
Lenguaje Objetivo: Puedo discutir con un compañero cómo calcular el **Área de la Base, B**, y escribir una explicación.

WHAT IS VOLUME?

- _____ is the _____ a shape.
- _____ is the letter we use to describe _____.
- _____ is the letter we use to describe _____.

KEY WORDS
for
VOLUME

FOR WHAT SHAPES DO WE CALCULATE VOLUME?

 <p>Name of Shape: _____</p> <p>Formula for Base: _____</p> <p>Formula for Volume: _____</p>	 <p>Name of Shape: _____</p> <p>Formula for Base: _____</p> <p>Formula for Volume: _____</p>	 <p>Name of Shape: _____</p> <p>Formula for Base: _____</p> <p>Formula for Volume: _____</p>	 <p>Name of Shape: _____</p> <p>Formula for Base: _____</p> <p>Formula for Volume: _____</p>
--	--	--	--

HOW DO WE CALCULATE **VOLUME**?

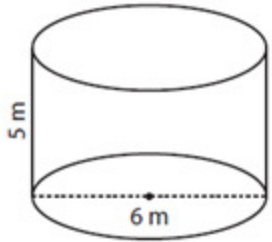
Step 1: Write the **Volume** Formula in a T-Chart

Step 2: Replace "**B**", if needed, w/ the correct **Area** Formula

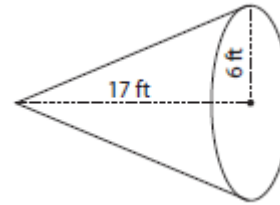
Step 3: Replace the variables with your numbers

(Be sure to use the radius, not the diameter!)

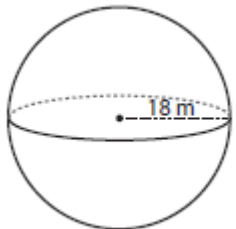
Step 4: Use your calculator to find the **Volume**



CYLINDER



CONE



SPHERE



HEMISPHERE