

Volume:

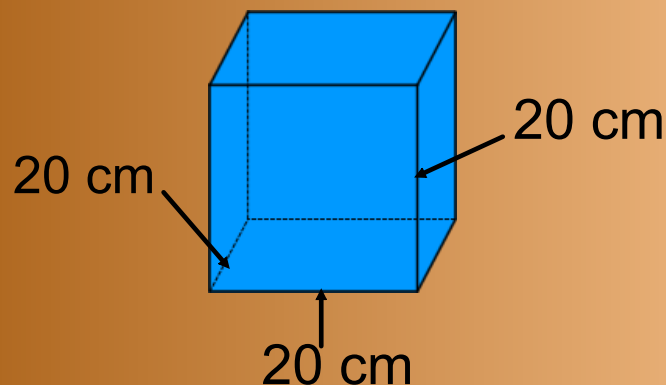
The amount of space occupied by matter or the amount of space inside something that is hollow



To find the volume of an object with a regular shape, use the following formula:

$$L \times W \times H$$

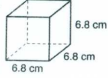
$$20 \text{ cm} \times 20 \text{ cm} \times 20 \text{ cm} = 8000 \text{ cm}^3$$




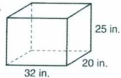
Name _____
Date _____
Period _____

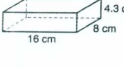
Volume = _____ X _____ X _____

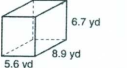
Find the volume of each rectangular prism.

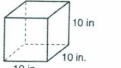
1.  _____

2.  _____


3.  _____

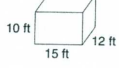
4.  _____


5.  _____

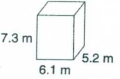
6.  _____


Find the volume of each rectangular prism.


1.  _____

2.  _____

3.  _____

4.  _____

5.  _____

6.  _____

1

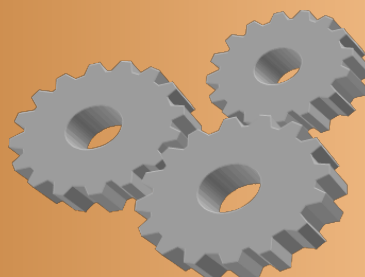
Question



How do you determine the volume of a solid object with an irregular shape?

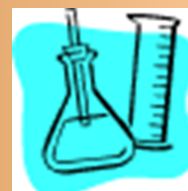
Hypothesis

Describe in your own words how you think we will be finding the volume of objects with irregular shapes.



Meniscus:

The curved surface of the liquid in a graduated cylinder (read the bottom of the curve)



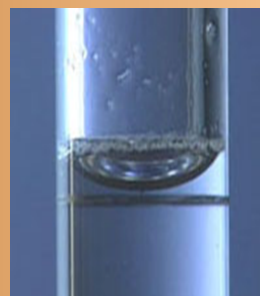
Reading the Meniscus Song - Mr. Edmonds

<http://www.youtube.com/watch?v=5Jbkk6ndivM>

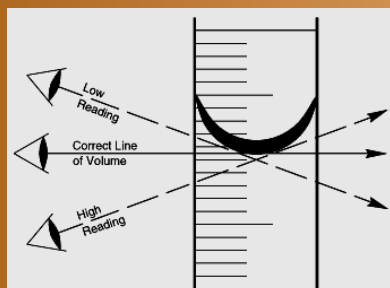


Reading the Graduated Cylinder

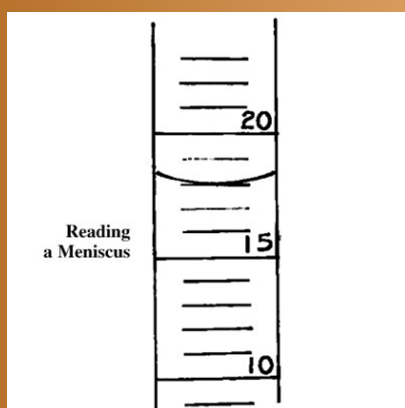
- Liquids in glass containers curve at the edges
- This curve is called the **MENISCUS**



- Your eye should be level with the top of the liquid
- You should read to the bottom of the **MENISCUS**



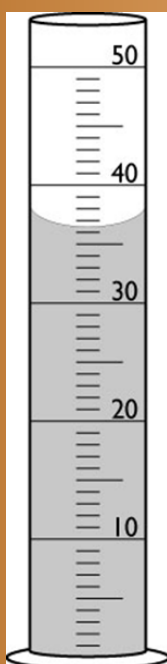
- What is this reading?



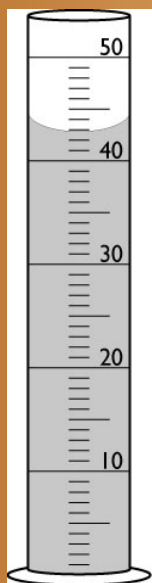
- **What is this reading?**



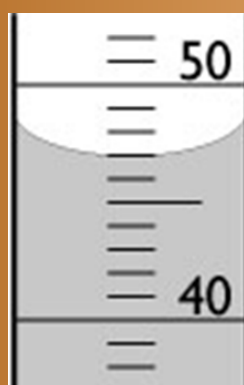
What is this reading?



What is this reading?



What is this reading?



Measuring Liquid Volume

Name _____
Date _____
Period _____
Due Date _____

Read the volume of liquid present in each of the graduated cylinders below.

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

_____ mL

Read the following 10 mL graduated cylinders. Notice, there is a new scale. Each line is now worth 0.1 milliliters.

19 mL

94 mL

71 mL

8 mL

66 mL

85 mL

Color in the correct amount of water written below each 10 mL graduated cylinder.

2.0 mL

9.1 mL

7.7 mL

3.8 mL

0.3 mL

0.9 mL

Water Displacement Method:



A method that measures the volume of an object by measuring the liquid it displaces in a container

Controls

- **Put water in the graduated cylinder**
- **Read meniscus at eye level (bottom of the curve to the nearest .5 mL)**
- **Set the object in the water carefully**
- **Read the meniscus again**



Objects

- Silver Ball 
- Sinker 
- Gold Mass 
- Quarter 
- Nail 
- Blue Tile 
- Magnet 
- Dice 