Measuring Volume

volume:
3^3 = 27

volume:
5^3 = 125

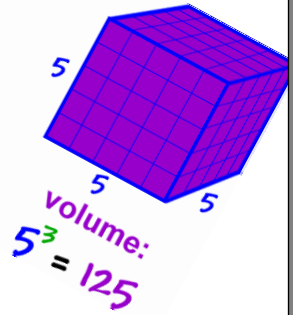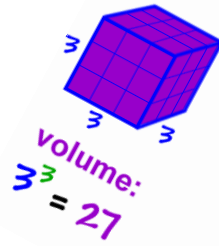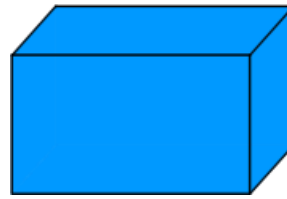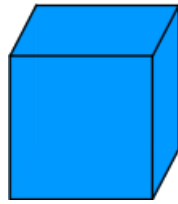
Volume: the amount of space an object takes up

We can measure the volume of
Solids
Liquids
  AND
Gases

Regular Solids: Objects that have straight edges

MEASURE the edges
MULTIPLY length x width x height
UNIT: cubic centimeters (cm^3)
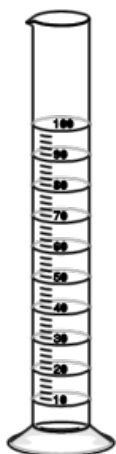
Example:
Length = 1 cm
Width = 2 cm
Height = 5 cm

Volume Formula:
Length x width x height   or   l x w x h

Substitute:
1 cm x 2 cm x 5 cm = ____ cm __

Measuring volume of liquids:

Use a graduated cylinder

Usually marked in **mL** (milliliters)

In a graduated cylinder, liquids have a curved surface called a **meniscus**
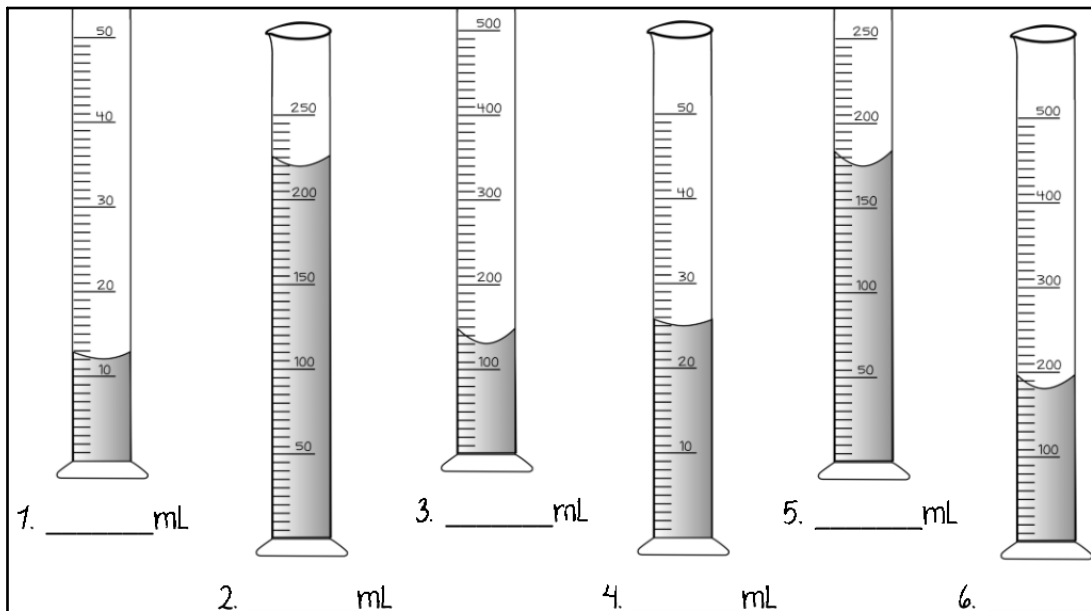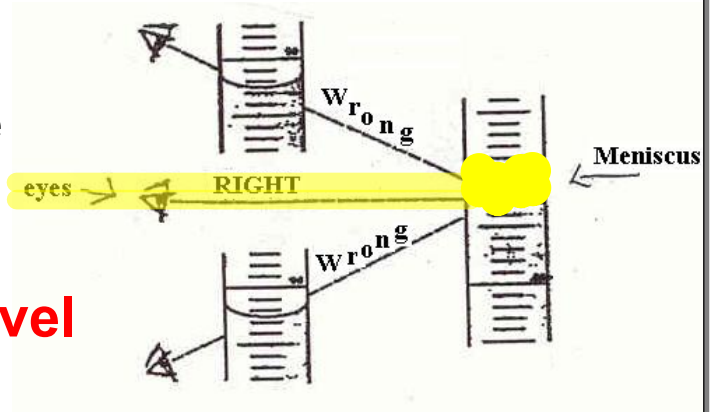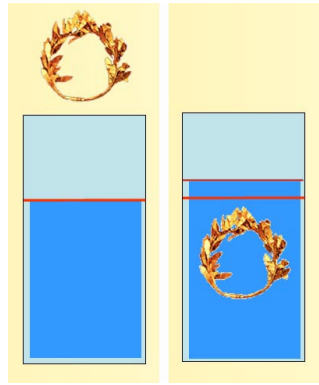
To measure accurately, look at the **bottom** of the meniscus.

To measure accurately, look at the **bottom** of the meniscus.

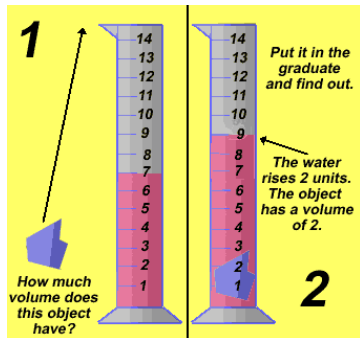Graduated cylinder should be **flat** on the counter
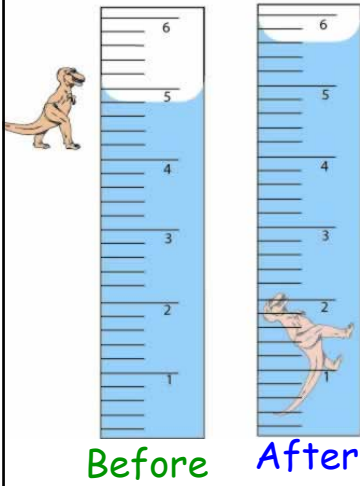
Look at it from the **level** of the meniscus!

1. _____mL

2. _____mL

3. _____mL

4. _____mL

5. _____mL

6. _____

1) Use graduated cylinder!

2) Measure & record level of water

3) Put object in water

4) Measure & record level of water

Subtract !

Water level after
- Water level before
Volume of irregular object

Subtract !

Water level after
- Water level before
Volume of irregular object

Before   After

Measuring Irregular and Regular Objects

- Block
- Eraser
- Marble
- 5 Pennies
- Lego