A Good Science Question:

1. Must be answerable with Observable Data

2. Leads to explanations about how the world works

3. Helps us predict the future and understand the Past.

Measurement: A statement of the amount of something

Desk	Classroom
5 Sketchbooks	37 frappachinos
7 Pencil holders	54 skeleton Hands
11½ iphone 5c	37 sketchbooks
9 Iphone 5c	1035 cm
25 Pink Erasers	30.5 boards
3½ white boards	83 Peanut butter bar thing
12 Sketch Hands	30.5 boards
2.5 boards	40 phone charms
41 pencils	47 pencil holders
3 boards	72 pencils
3.5 Phone charm	59 pencils
47	56 $
10 pencils	34 binders
6 pencils	73 iPhone
11 $'s	
3.75 binder	
9 iPhone	

Length: A measure of distance

Units:

Imperical
.English
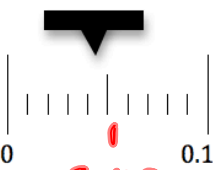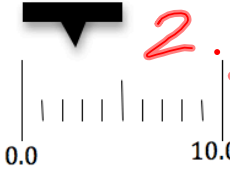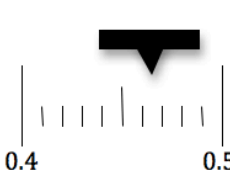inches (in)
feet (ft)
yards
miles

Legues
Nautical Mile

Metric
Picometer
milimeters (mm)
Centimeters (cm)
Decimeter (dm)
meters (m)
Kilometers (Km)
Astronomical Unit (AU)
Light years

Length of writing implement:

18.1cm
— 15 cm
21.5 cm
— 15 cm
14.5 cm
18.5 cm

16.5 cm
— 18 cm
14.9cm
13.5 cm
— 14 cm
14.8 cm

15.00 ± 0.05

Reading Instruments Practice

Triple Beam Balances – Read the scale and put all answers in grams!

4.65 g
4.66 g
± 0.05

4   5   Answer _____

0.014   0.43
0.46   0.04
0.45   0.043
0.040   0.045

0.0   0.1   Answer 0.040
0.05

0.045 ± 0.005

2.8 ± 0.5

0.0   10.0   Answer _____

90.   90①
90.0 X

90   100   Answer _____

0.465
0.45
0.467

0.4   0.5   Answer _____

8.82   8.85
8.81 ✓ ± 0.05

7   9   Answer _____

Length

Weight: depends on gravity   *metric*

Pounds (lbs)   *Newton (N)* .

Mass: The amount of matter in something

Units: Grams, kilograms

Use a Triple Beam Balance

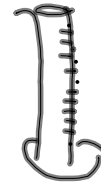Volume: The amount of 3D space an object takes up

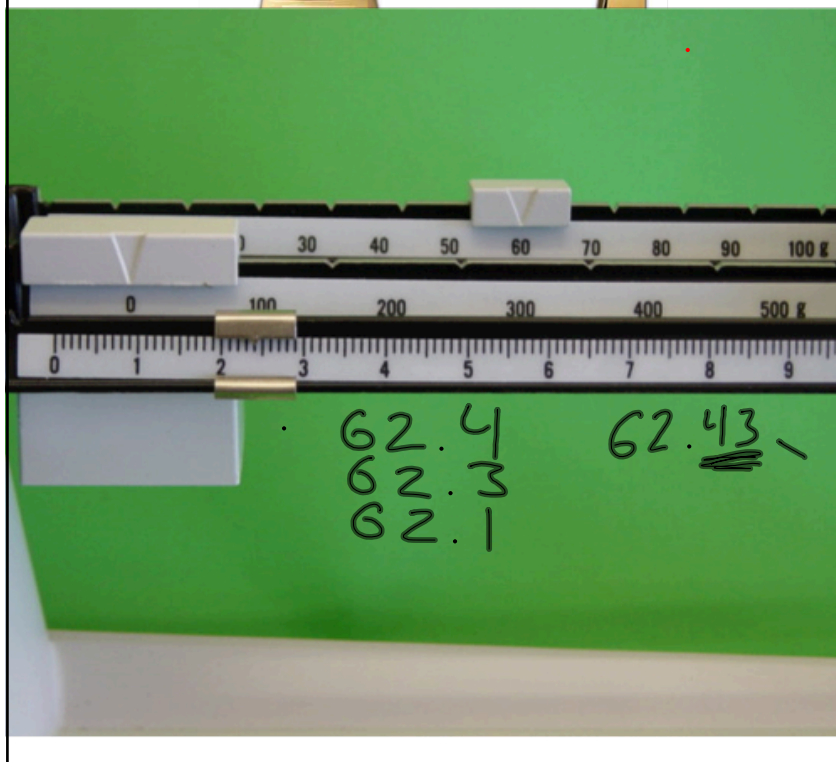2 ways to measure

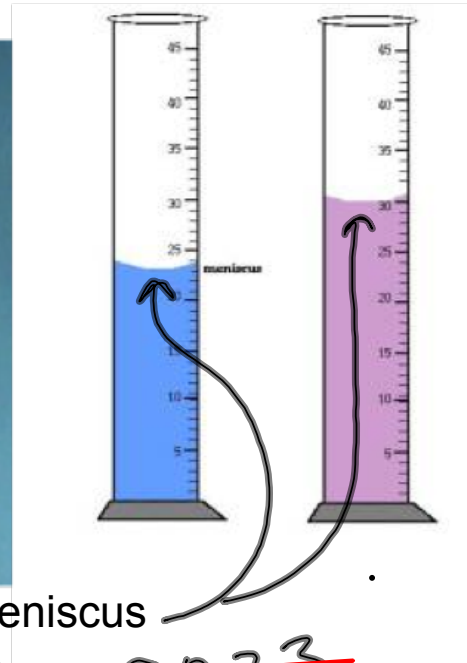1. Length x width x height

cm • cm • cm

. *Units: cm³, m³*

2. Liquid Volume: Use a graduated Cylinder

units: Liter, mililiter,

Mass

| 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 g |
| 0 | 100 | 200 | 300 | 400 | 500 g |

0 1 2 3 4 5 6 7 8 9

. *62.4   62.43*

62.3

62.1
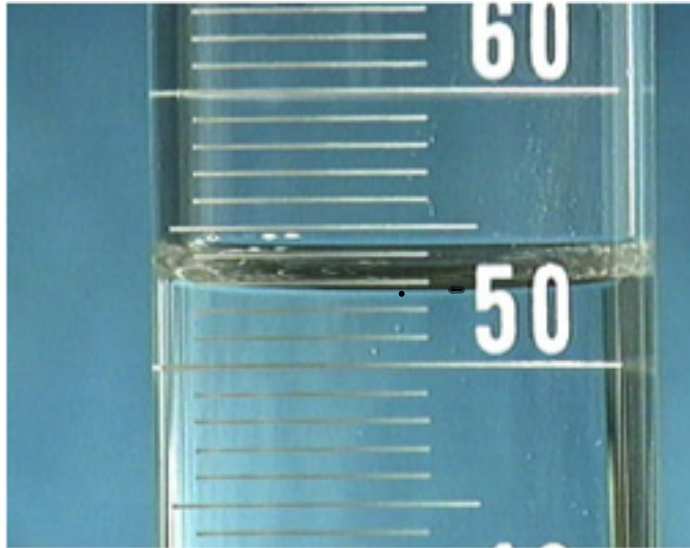
Read from the bottom of the Meniscus

52.8   52.8   ~~50.23~~
52.7   ~~50.3~~   53