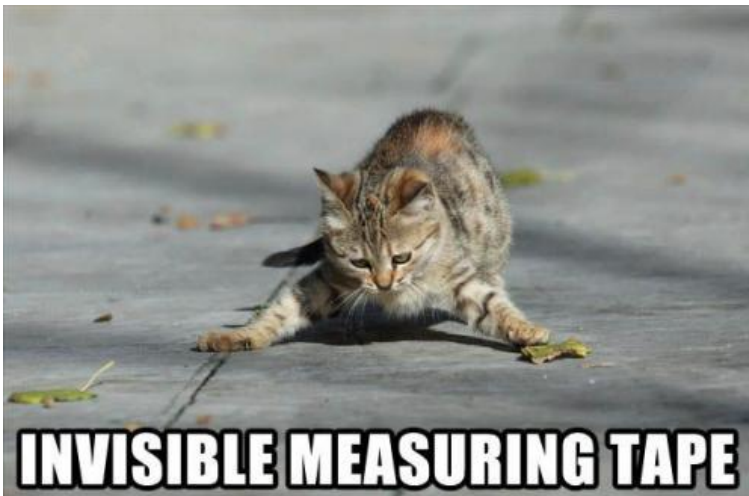
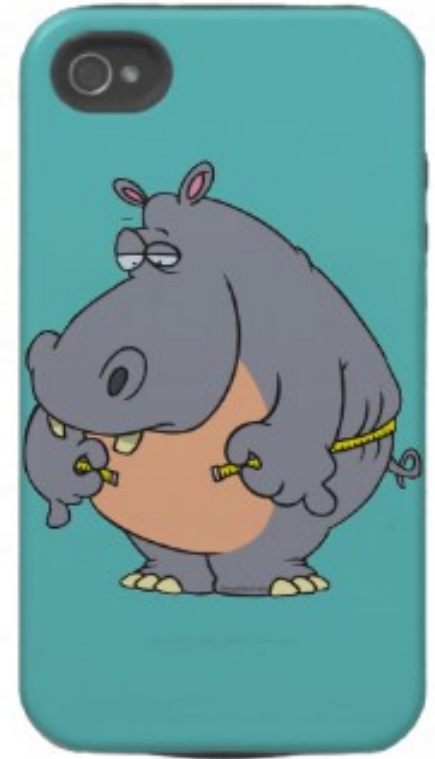


Measurement



Action Movie shooting precision



Every trained
Policeman



Main character, who
never fired a gun before

Precision

- Getting the same result when measuring something.



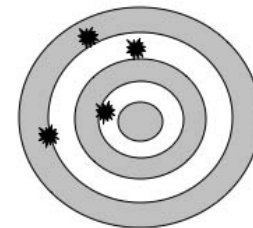
Accuracy

- How close your measurement is to the true measurement.

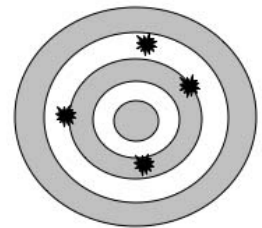


Examples

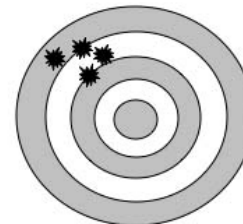
- A scale that measures in milligrams but is off by 1 kilogram is precise but not accurate.
- A scale that measures only in kilograms but is correct is accurate but not very precise.



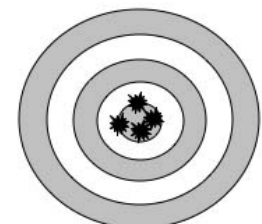
Not Accurate
Not Precise



Accurate
Not Precise



Not Accurate
Precise



Accurate
Precise

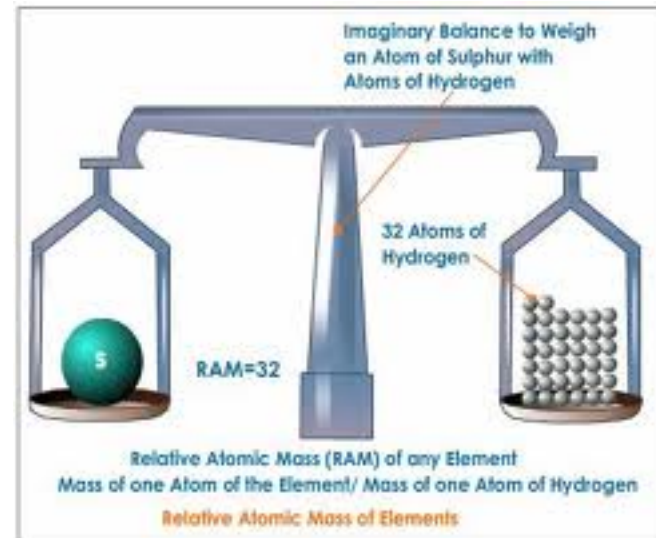
Measuring Matter

- Matter takes up space
- Scientist use the metric system for measuring so they can communicate their ideas without confusion



Mass

- A measurement of how much matter an object contains.
- Measured using a balance or scale.



Weight

- A measurement of the pull of gravity on an object.



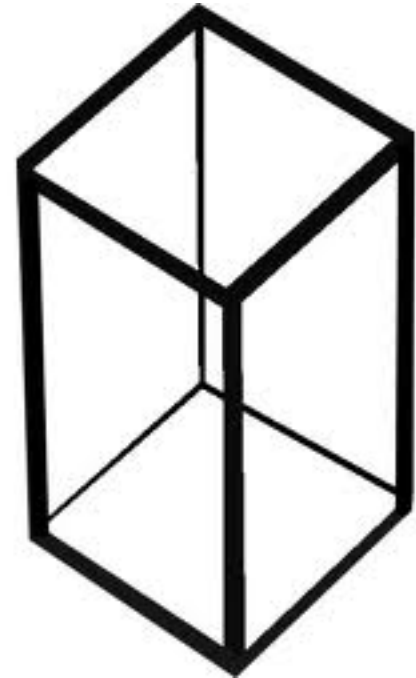
Mass versus Weight

- An object will have the same mass on the Earth and the moon but different weights because the moon has $1/6^{\text{th}}$ the gravity of Earth.



Volume

- A measure of how much space an object occupies.
- 1 milliliter = 1 cm³



Measuring Volume

- The volume of a regular object can be found by measuring the sides and using a formula
- The volume of an irregular object can be found by using displacement

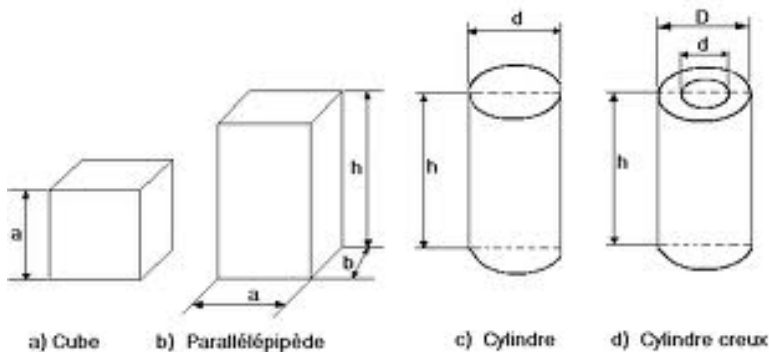


Fig. 5. - Représentation de différents volumes.

