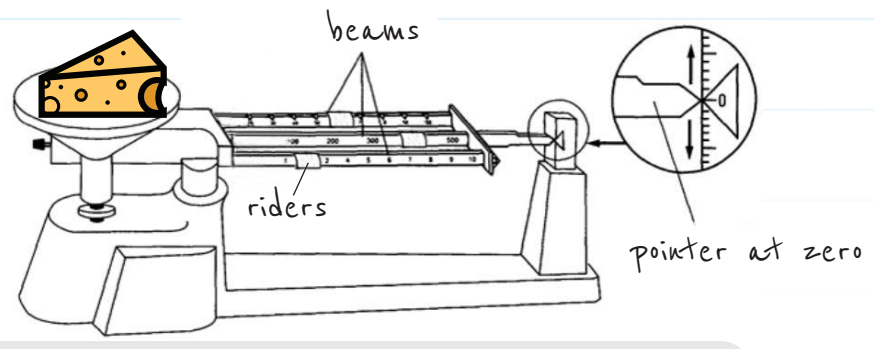


MATH & SCIENCE

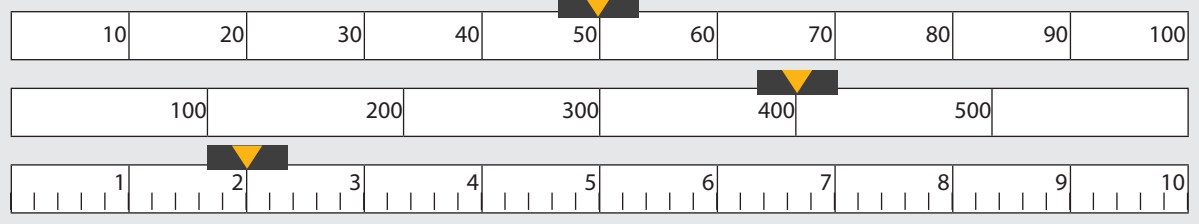
MASS

amount of matter in an object or substance

UNIT gram (g)



HOW DO YOU MEASURE MASS?

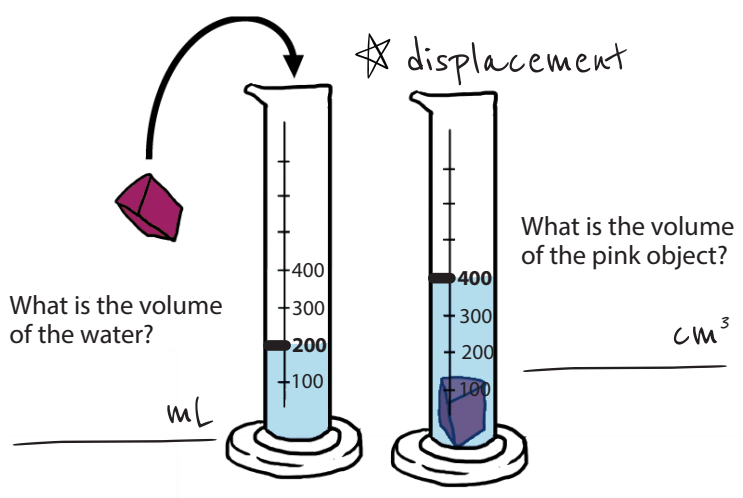


What is the mass of the cheese?

 (Don't forget unit!)

MASS VS. WEIGHT

Mass and weight measure different things. Weight measures the force of gravity acting on an object. This cheese will have the same mass on the moon as it does on Earth. Will its weight be the same on the moon, though?



VOLUME

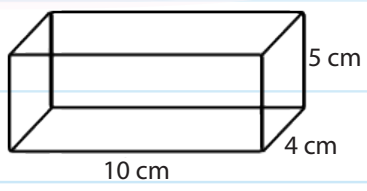
amount of space that an object or substance takes up

UNIT Solid: cubic centimeter (cm³)
 Liquid: milliliter (mL)
 *NOTE 1 cm³ = 1 mL

HOW DO YOU MEASURE VOLUME?

- Liquids: graduated cylinder (mL)
- Irregular shaped solid: displacement
- Regular solid: length x width x height (cm³)

What is the volume of this rectangular object?



DENSITY

how closely packed particles of matter are

UNIT Solid: g/cm³
 Liquid: g/mL

The density of water is 1.0 g/mL

$$\text{DENSITY} = \frac{\text{MASS (g)}}{\text{VOLUME (cm}^3 \text{ or mL)}}$$