L.O. To understand the difference between imperial and metric units and how we can convert between these two units of measure.







• In the olden days, we used to weigh things differently.



Imperial Units of Measure

https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zwbndxs

- Miles, feet and inches are old units of length.
 These are known as imperial units of length but are not now commonly used in maths.
- •There are 12 inches in a foot.
- •An inch is roughly equal to 2.5 centimetres.
- •A foot is roughly equal to 30 centimetres.
- •A mile is roughly equal to 1.6 kilometres,

but for ease of conversion it is easier to think of a mile being roughly 1.5 kilometres.

These are the "imperial" measurements for weight.

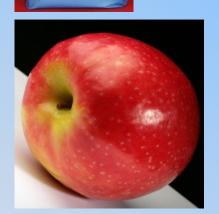
- Stones
- A sack of grain weighs about 12 stones.
- Pounds
- A bag of sugar weighs 2 pounds.
- Ounces
- An apple weighs about 4 ounces.





= 12 stones

= 2 pounds



= 4 ounces

1 stone = 14 pounds. 1 pound = 16 ounces.



But I don't know my 14 and 16 times tables! Working with imperial units makes my brain hurt... (thought everyone)

So we invented easier units.

Metric Units of Measure

- <u>https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zqf4cwx</u>
- The metric system is used to measure the length, weight or volume of an object. Length is measured in **millimetres** (mm), **centimetres** (cm), **metres** (m) or **kilometres** (km).
- 1 cm = 10 mm
- 1 m = 100 cm
- 1 km = 1000 m
- 1 cm is about the width of a staple
- 1 m is about the width of a single bed
- Weight is measured in grams (g) and kilograms (kg). Volume is measured in millilitres (ml) and litres (l).
- 1 kg = 1000 g
- 1 l = 1000 ml
- 1 kg is the weight of seven apples
- 1 I is the volume of a carton of orange juice

Useful facts to help you estimate weight.

 Grams. 1 gram is about the weight of one Skittle sweet.

 Kilograms. 1 kilogram
 is about the weight of a large dictionary.



