

Aim

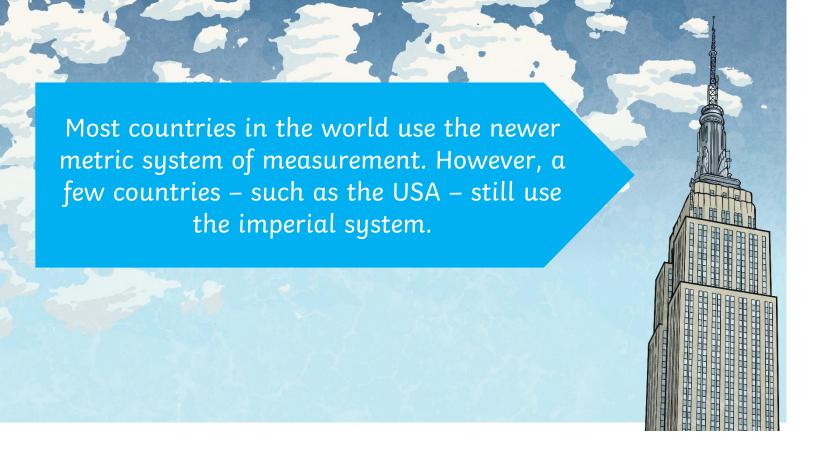
• I can understand and use common imperial units of length, weight and capacity.

Success Criteria

- I can identify common imperial units of length.
- I can convert between metric and imperial measures.
- I can solve problems involving measurements given in imperial and metric units.

Introducing Imperial Measurements

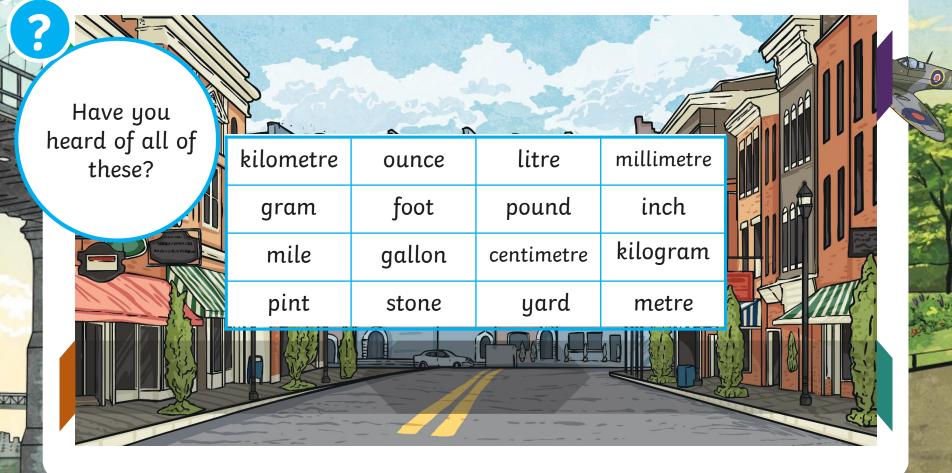
There are two main systems of measurement in use – the metric system and the imperial system.



Metric and Imperial measures

Here are some mixed metric and imperial units of measurement for weight, length and capacity.

Can you sort them into groups?



Metric and Imperial measures

<u>Metric</u> <u>measurements for</u> <u>length</u>

kilometre

metre

centimetre

millimetre

<u>Metric</u> <u>measurements for</u> <u>capacity</u>

litre

millilitre

Metric measurements for weight

kilogram

gram

Metric and Imperial measures

<u>Imperial</u> <u>measurements for</u> <u>length</u>

<u>Imperial</u> <u>measurements for</u> <u>weight</u>

stone

ounce

pound

mile

foot

yard

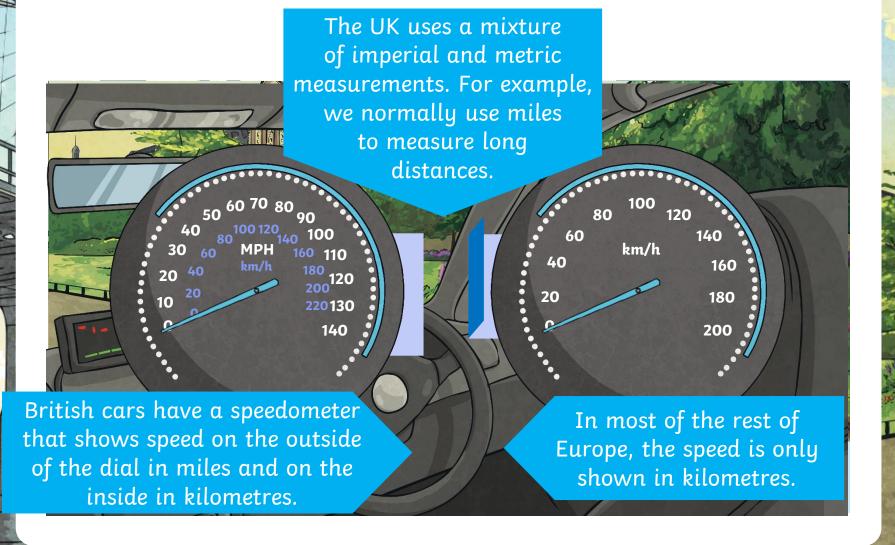
inch

Imperial measurements for capacity

gallon

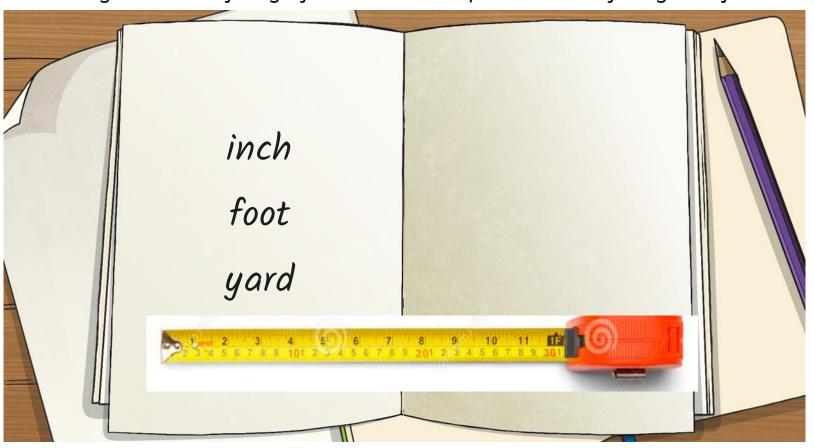
pint

Introducing Imperial Measurements for Length



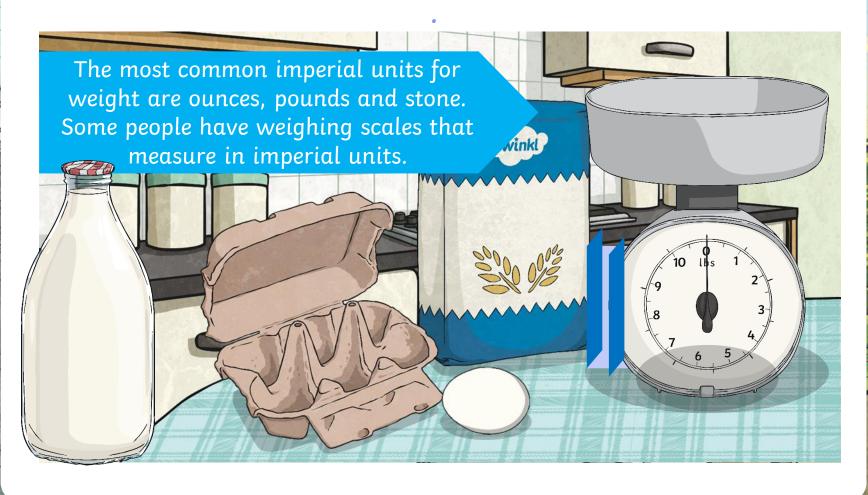
Introducing Imperial Measurements for Length

Have you heard of any of these other imperial units of length before?



Introducing Imperial Measurements for Weight

The most common **metric** units of mass are grams and kilograms.



Introducing Imperial Measurements for Weight

Sometimes we still use pounds, ounces and stones, which are imperial measurements, for weight.



Often the weight of a new born baby is recorded in pounds and ounces.

The word 'pounds' (in weight) is shortened to *lb*.

The word 'ounces' is shortened to oz.

Pounds and Kilograms

A new born baby weighed 8.5lb. How much was this in kg to the nearest whole number?



$$1 lb = 0.45 kg$$

$$1 \text{ kg} = 2.2 \text{ lb}$$

Pounds and Kilograms

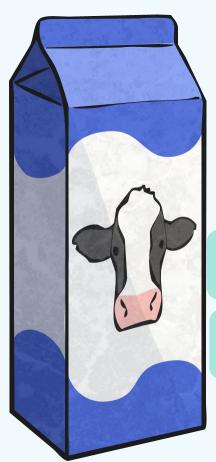
A new born baby weighed 8.5lb. How much was this in kg to the nearest whole number?



4kg

Introducing Imperial Measurements for Capacity

Metric measurements for capacity include litres and millilitres.



Imperial measurements for capacity include pints and gallons. In the past, milk would be delivered to your door in pint sized bottles by the milkman. Beer is also often served in pint glasses! Maybe you have a pint glass at home you can look at to see how much water it holds?

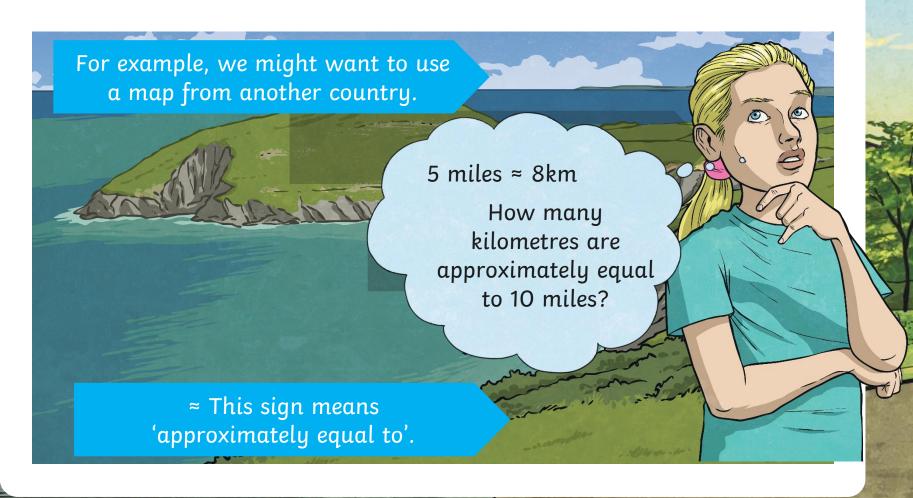
1 pint = 0.57 litres

1 litre = 1.75 pints

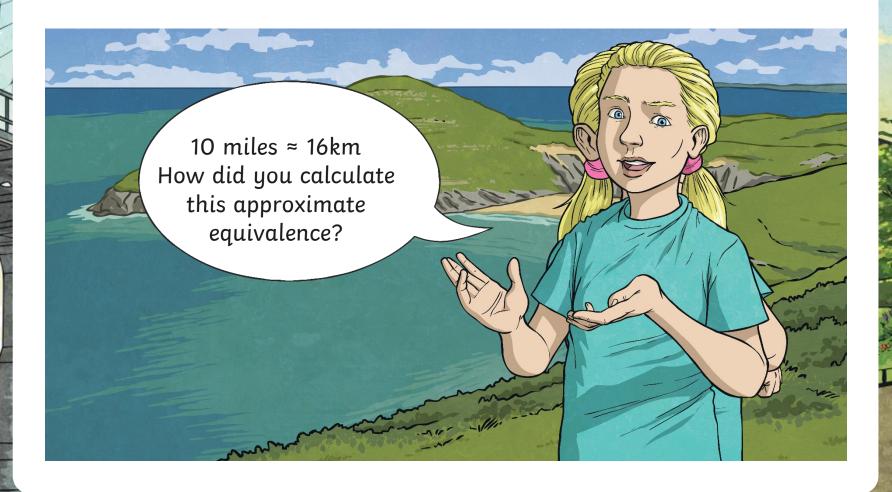


Converting Miles to Kilometres

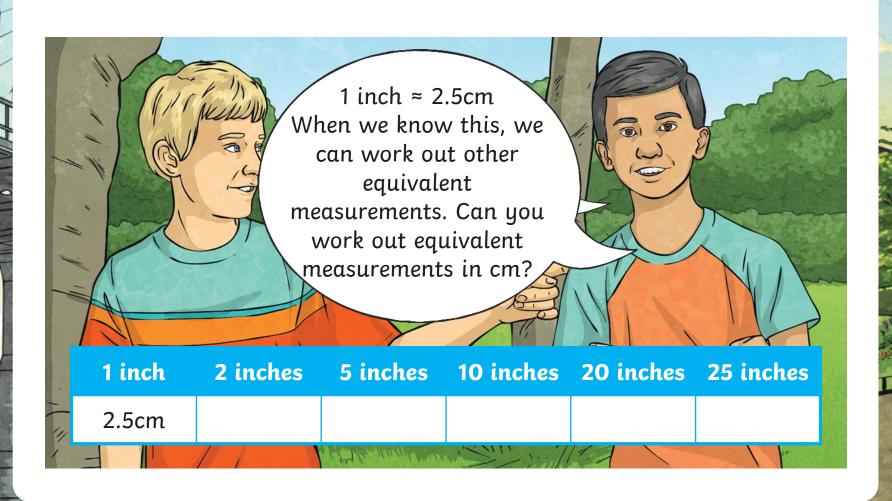
Sometimes we need to convert between imperial and metric units.



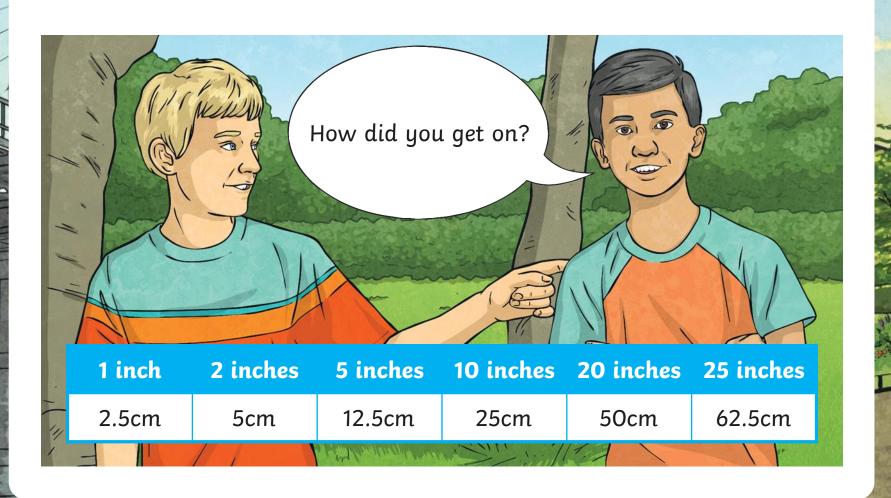
Miles and Kilometres



Converting between Inches and Centimetres

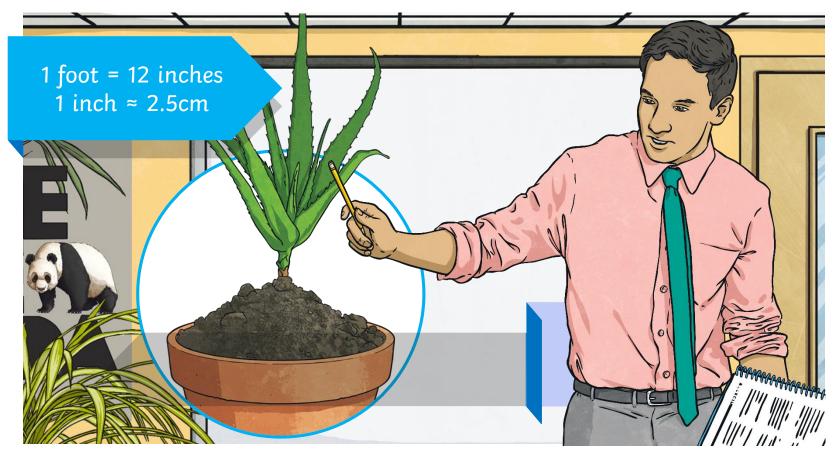


Converting between Inches and Centimetres



Converting between Centimetres, Feet and Inches

Mr Kitcatt plants a seedling that grows to be 1 foot tall. How tall is this in cm?



Converting between Centimetres, Feet and Inches

Answer- Mr Kitcatt's seedling is 30cm tall.

