

Key Vocabulary

metre (m)
centimetre (cm)
millimetre
height
length
width
equivalent
perimeter
further / furthest
higher / highest
longer / longest
shorter / shortest
taller / tallest
compare

Measure length

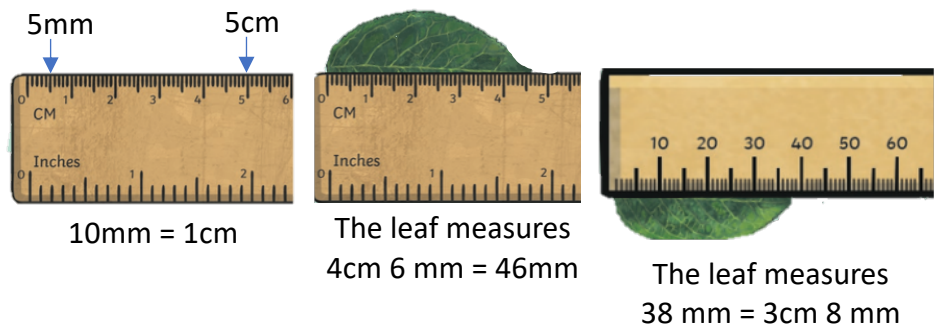
We can measure the length of objects using **metres**, **centimetres** and **millimetres**.

**Metres** are used for large objects or areas e.g. the length of a playground.

**Centimetres** are used for objects you can hold in your hand e.g. the length of a pencil.

**Millimetres** are used for smaller objects e.g. length of a fingernail.

We can also get precise measurements by using two units of measurement e.g. 2cm 4mm



Equivalent lengths

Metres and centimetres	Millimetres and Centimetres
100cm = 1m	10mm = 1cm
120cm	45mm
100cm    20cm	40mm    5mm
1m        20cm	4cm       5mm
1m 20 cm	4cm 5 mm

Compare lengths

Child	Height	Equivalent
Rosie	109cm	1m 9cm
Amir	1m 5cm	1m 5cm
Jack	135cm	1m 35cm
Dora	1m 45cm	1m 45cm

By converting lengths so they are in the same unit of measurement, it is much easier to **compare** them.

**Tallest** – Dora  
**Smallest** = Amir

## Add lengths

$$14\text{cm} + 19\text{cm} = 33\text{cm}$$

?	
8cm 2mm	16mm
82mm	16mm

$$8\text{cm } 2\text{mm} + 16\text{mm} = 82\text{mm} + 16\text{mm} = 98\text{mm} \text{ or } 9\text{cm } 8\text{ mm}$$

**Too add more efficiently, we can convert measurements into the same unit of length.**

## Subtract lengths

$$6\text{m} - 2\text{m } 28\text{cm}$$

$$6\text{m} - 2\text{m} = 4\text{m}$$

$$4\text{m} - 28\text{cm} = 3\text{m } 72\text{cm}$$

6m	
2m 28cm	?

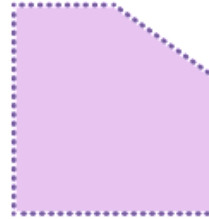
$$5\text{m} - 1\text{m } 54\text{cm}$$

$$5\text{m} - 1\text{m} = 4\text{m}$$

$$4\text{m} - 54\text{cm} = 3\text{m } 46\text{cm}$$

5m	
1m 54cm	?

## Measure and calculate perimeter



The **perimeter** is the distance all the way around the outside of a 2D shape. To work out the **perimeter**, add up the lengths of all the sides.

..... = perimeter

