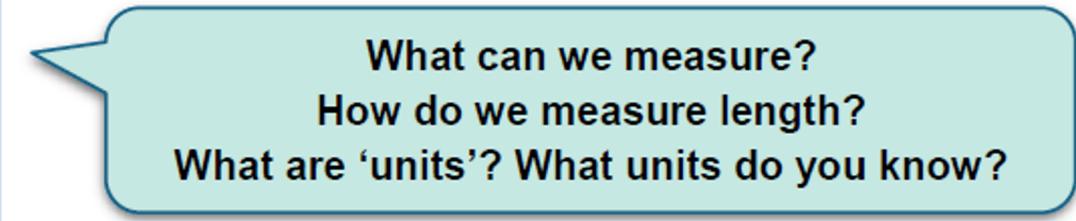


WALT: convert units of length using calculations

We are moving on to the topic of units of measure. To get started I want you to have a think about the following questions. What do you know about measurements?



**What can we measure?
How do we measure length?
What are 'units'? What units do you know?**

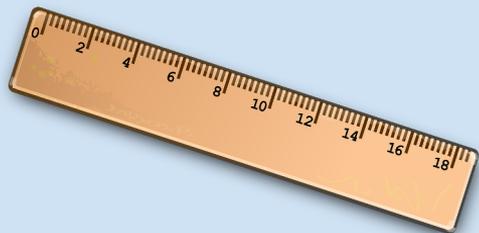
WALT: convert units of length using calculations

What is length? Do you know any units of measurement that we use when talking about length?

Length is.....

WALT: convert units of length using calculations

The units of length measurement that we will focus on are:



Millimetres (mm)

Centimetres (cm)

Metre (m)

Kilometre (km)

Which of these units of measurement do you think you would use to measure the length of a book? What about the length of a tree?

Length of a book-

Length of a tree-

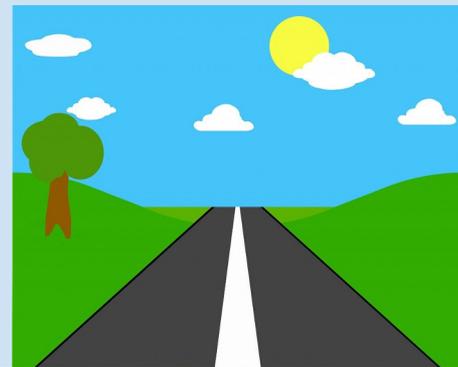
WALT: convert units of length using calculations

Millimetre is the smallest unit of measurement. We would use this for very small objects, such as the tip of a pencil.

Centimetres are longer than millimetres. We could use cm to measure our toys, pens and books.

Metres are longer than centimetres. We would use these for longer items such as trees or houses.

Kilometres are used to measure very long distances, such as the distance between Watford and London!



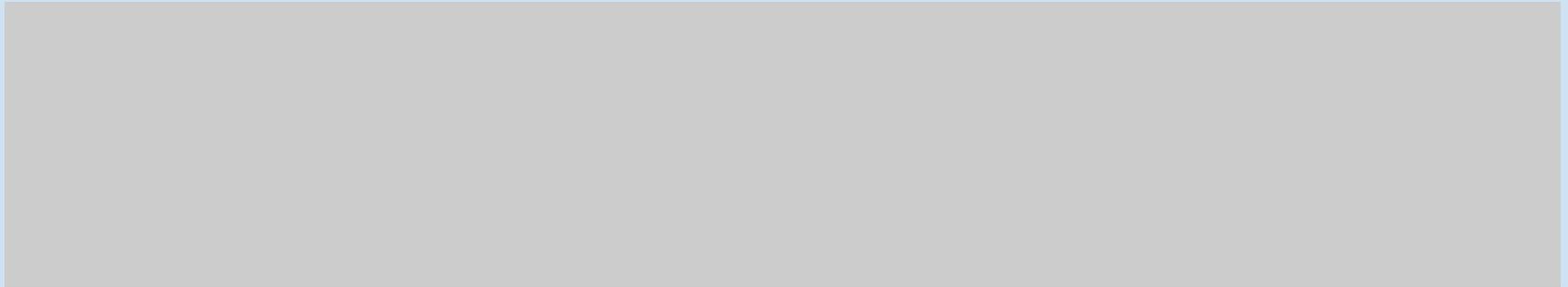
WALT: convert units of length using calculations

It's time to go on a scavenger hunt!! I want you to have a look around your house or flat for items that match the description. You could also use your daily walk to find some items! Let me know what you find:

- Something measured in cm-
- Something measured in m-
- Something measured in km-
- Something measured in mm-
- Something longer than 5cm-
- Something longer than 2m-

WALT: convert units of length using calculations

Sometimes we may need to convert units of measurement for certain reasons. We touched on this when we were adding and subtracting units of measurement. Do you remember how we can convert units of measurement? Type your answer below.



WALT: convert units of length using calculations

Unit of Measurement Equivalent measurements:

$$10\text{mm} = 1\text{cm}$$

$$100\text{cm} = 1\text{m}$$

$$1000\text{m} = 1\text{km}$$

What do you notice about these equivalent units of measurement? What has to be done to get the equivalent?

I notice.....

WALT: convert units of length using calculations

If 10mm is the same as 1cm, to convert from mm to cm you must **divide** by 10 because lots of small units become **fewer large units**.

If 1cm is the same as 10mm, to convert from cm to mm you must **multiply** by 10 because fewer large units become **more smaller units**.

If 100cm is the same as 1m, to convert from cm to m you must **divide** by 100 because lots of small units become **fewer large units**.

If 1m is the same as 100cm, to convert from m to cm you must **multiply** by 100 because fewer large units become **more smaller units**.

If 1000m=1km, to convert from m to km you must divide by 1000.

If 1km=1000m, to convert from km to metre you must multiply by 1000.

WALT: convert units of length using calculations

10mm=	cm
90mm=	cm
7cm=	mm
2cm=	mm
4.5cm=	mm
9.1cm=	mm
100cm=	m
500cm=	m
7m=	cm
3m=	cm
240cm=	m
3.8m=	cm

