LENGTH

A DEFINITION

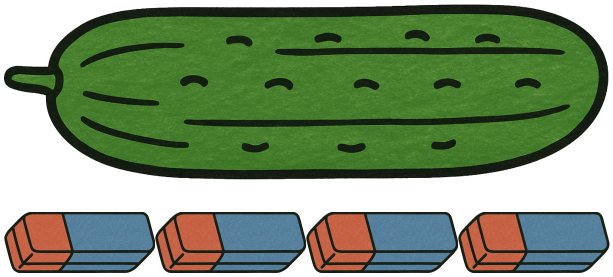
Definition **Length**

Length is the distance from one point to another.

Method **Measure Length with Objects**

To measure the length of an object, use small things like blocks or erasers. Line them up next to the object and count how many fit along its length.

Ex:



The cucumber measures 4 erasers long.

B LENGTH UNITS

Discover: We can measure length using different units like blocks or erasers. But these units are not the same for everyone. Your friend might have a longer eraser than yours, making it hard to compare. To solve this, mathematicians created a universal unit called the meter, so everyone can measure and compare lengths the same way.

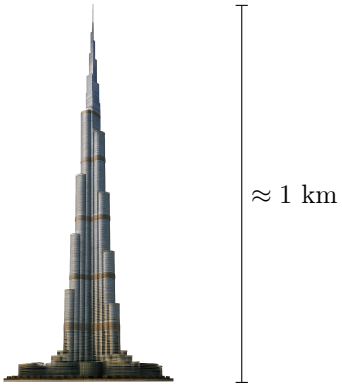
Definition **Units of Length**

- Millimeter (mm): A very small unit of length, about the thickness of a coin.

- Centimeter (cm): A small unit of length, about the width of your finger.

- Meter (m): A longer unit of length, about the height of a 6-year-old girl.

- Kilometer (km): A very long unit of length, about the height of the Burj Khalifa in Dubai, United Arab Emirates.



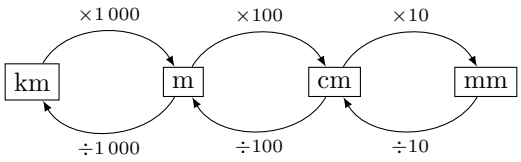
C CONVERSION OF LENGTH UNITS

Definition **Conversion of Length Units**

- 1 km = 1000 m
- 1 m = 100 cm
- 1 cm = 10 mm

Method **Converting using a Multiplication or a Division**

- Use **multiplication** to go from a bigger unit to a smaller one (like meters to centimeters).
- Use **division** to go from a smaller unit to a bigger one (like centimeters to meters).



Method **Converting Using a Table**

To convert between units of length, we can use a conversion table. For example, to convert 4 meters to centimeters:

1. Write the units in the table: km, m, cm, mm.

km			m		cm	mm

2. Place the number in the column of the unit you start with.

km			m		cm	mm
			4			

3. Fill in zeros in the columns to the right until you reach the unit you want to convert to.

km			m		cm	mm
			4	**0**	**0**	

4. Read the number as a whole to get the converted value.

So, 4 m = 400 cm.