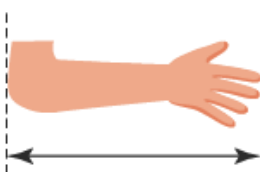


Non Standard Units of measurements



Handspan



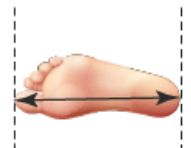
Cubit



Arm span



Pace



Foot span

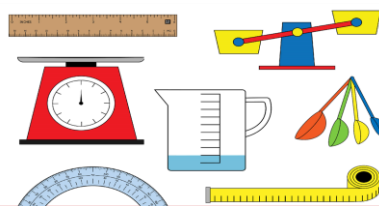
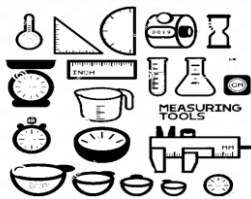
Measurements

Measurement quantifies the characteristics of an object or event, which we can compare with other things or events.

Measurement is a technique in which the properties of an object are determined by comparing them to a standard quantity.

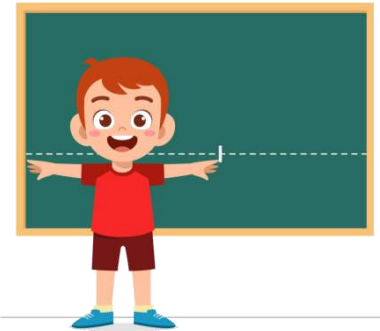
Also, measurement is the essential metric to express any quantity of objects, things and events.

In our daily existence, we often come across different measurement types for length, weight, times, etc.



Length

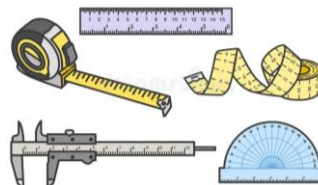
- Length is defined as the measurement or extent of something from end to end.
- Length is the measure of particular objects or distance between two objects.
- This length can be measured by some units.



Unit

- Units of measurement are the standardized quantities we use to express the magnitude of different physical properties.

✓ Standard units



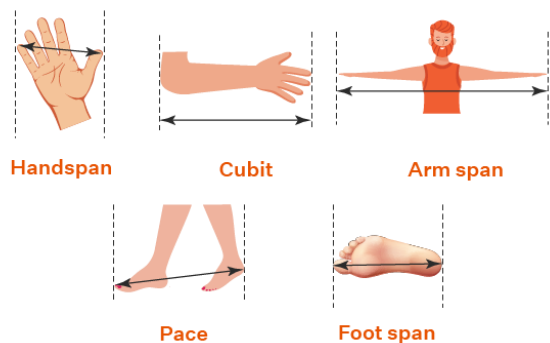
✓ Non Standard units



Non Standard Units

- ❑ Non-standard units are any objects or body parts used to measure something instead of established units like the metric or imperial systems.
- ❑ Non-standard units of measurement are units that are not universally accepted or consistently defined.
- ❑ They can vary from persons to persons and place to place, as opposed to standard units which are widely recognized and have precise definitions.
- ❑ It has two types.

❖ Uniform



❖ Non Uniform



Types

Non standard Units

Uniform

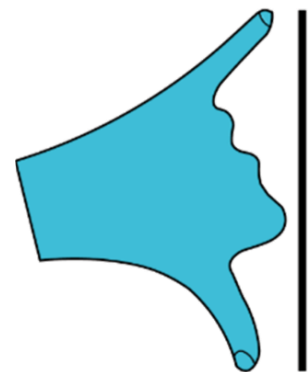
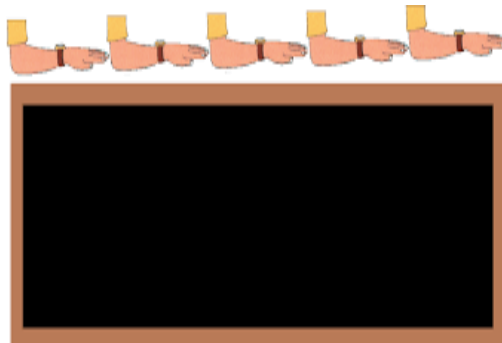
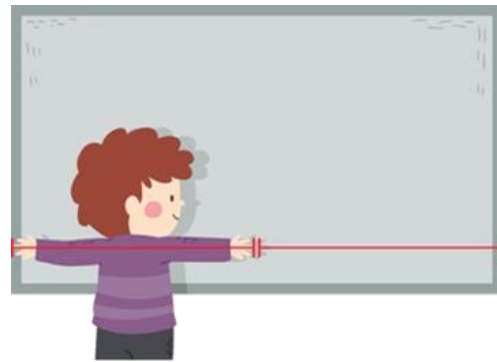
1. Palm
2. Hand span
3. Cubit / forearm
4. Digit
5. Foot
6. Pace
7. Fathom / Arm span

Non Uniform

1. Pin
2. Straw
3. Eraser
4. Pencil
5. Match stick
6. Paper clip etc...

Uniform

- ❑ A uniform non-standard unit of length is a unit that is not based on the International System of Units (SI) but has a consistent size and shape.
- ❑ Using a uniform non-standard unit of length can help estimate and compare the length of different objects or spaces



Uniform Palm

- ❑ The palm, as a non-standard unit of length, represents the **width of a person's hand, excluding the thumb.**

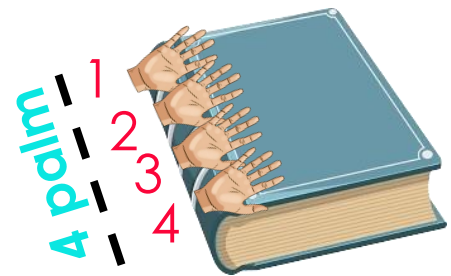


- ❑ The size of a palm **varies from person to person**, depending on their hand size.



Example :

The book is about **4 palms** wide.



The dog's tail is about **2 palms** long.



Hand Span

- A hand span is the **distance** between the **tip of the thumb and the tip of the little finger** when the hand is fully stretched out.



It can change persons to persons.

Example :

The table is about **3 hand spans** wide.

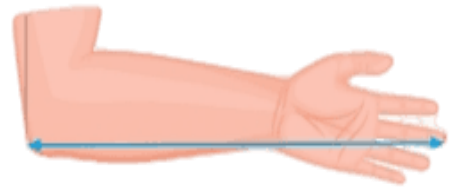
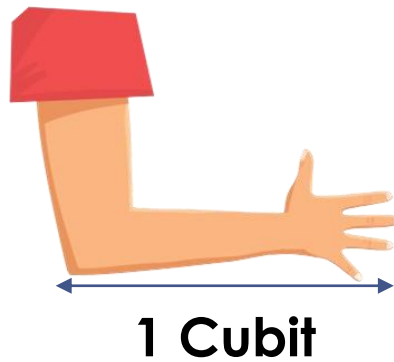


The ribbon is about **1 hand span** long.



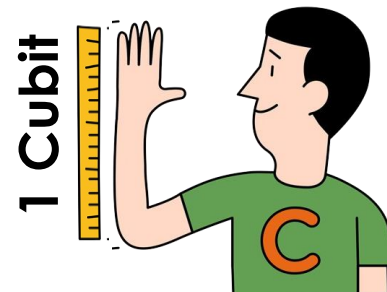
Cubit / Forearm

- A cubit is an ancient unit of **length based on the forearm length**, measured from the **elbow to the tip of the middle finger**.

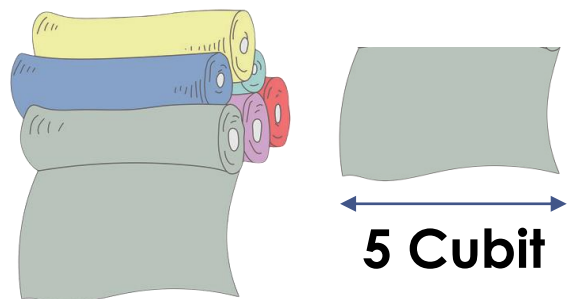


Example :

1 cubit size scale.



Cut **5 cubit** length fabric.



Digit

- A digit is a unit of length based on the **width of a finger**, typically the **index finger**. It's measured across the widest part of the finger.



Example :

The nose was about **3 digits** long.

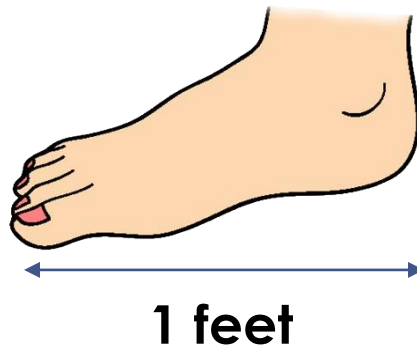


Coins can be measured in **digits**.



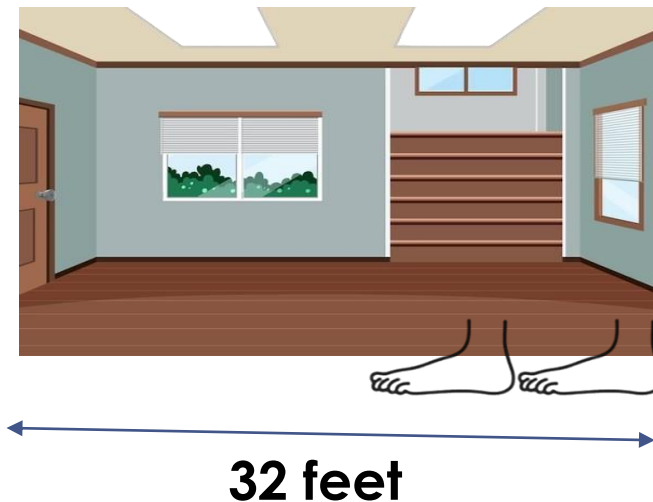
Feet

- ❑ “Feet” refers to the **length of a person's actual foot**, which varies significantly depending on the individual.

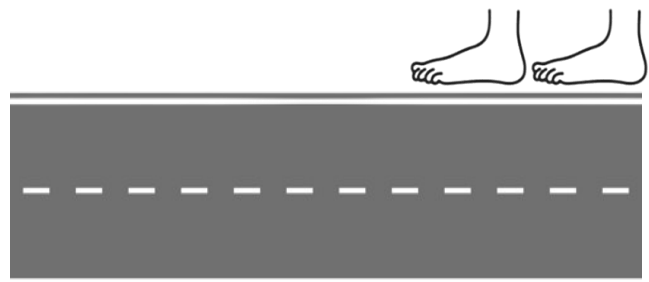


Example :

It is a **32 feet** room.



Length of the roads can
measured by **feet**.



Pace

- A pace is the length of 2 steps, measured from the heel of one foot to the heel of the other foot when walking.



1 pace

Example :

The park is about 100 paces from here.



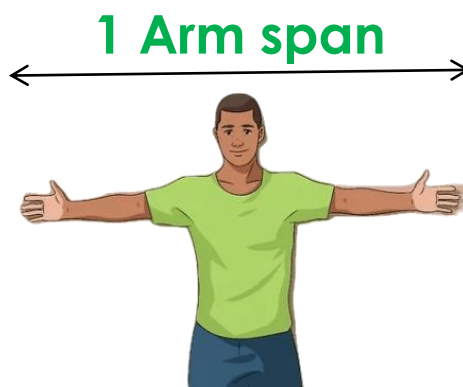
Park

The staircase is about 12 paces long.



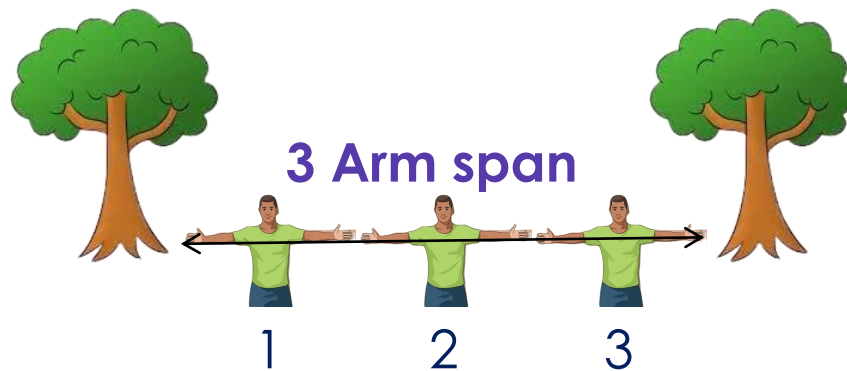
Fathom / Arm span

- It refers to the distance between the **fingertips of your two middle fingers** when your **arms are outstretched horizontally at shoulder height**.

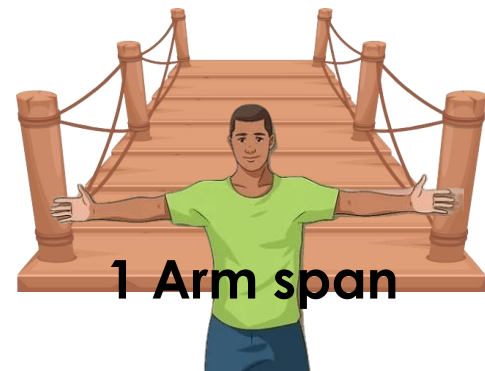


Example :

The distance between 2 trees is **3 arm** spans wide.



The bridge is **1 arm** span wide.



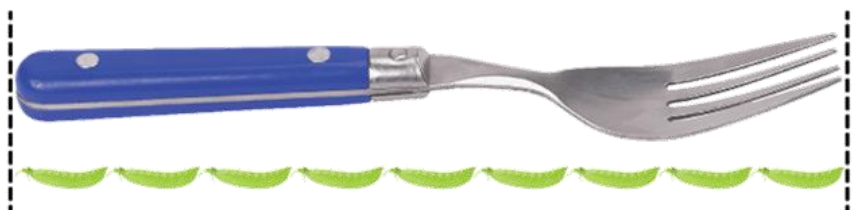
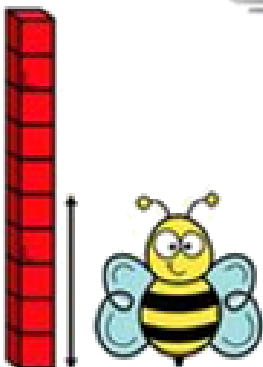
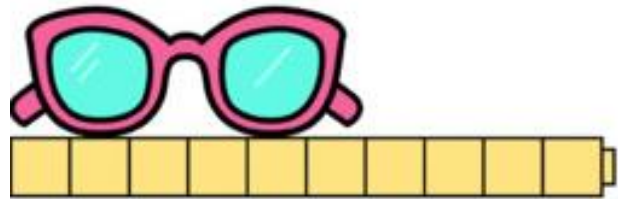
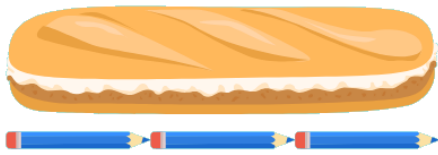
Non Uniform

- The quality of not being consistent or the same in size or quantity.
- Any item that can be used to measure something.

Example :

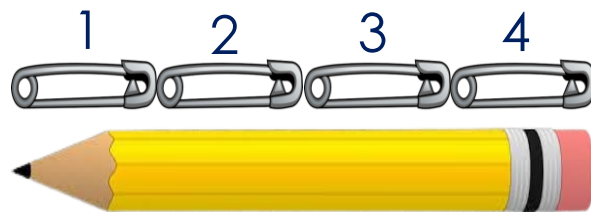
Paperclips, blocks, straws etc.

- It can be any object that we use in our daily life.



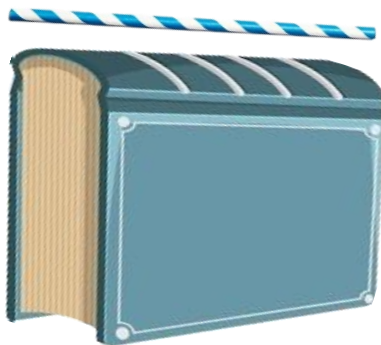
Non Uniform

1. Pin



The length of
the pencil is **4**
pins long.

2. Straws



The length of
the book is **1**
straw.

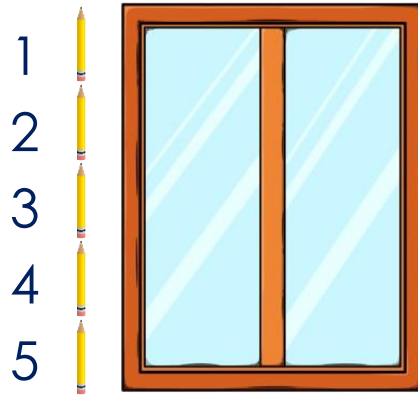
3. Eraser



The box is **4**
erasers long.

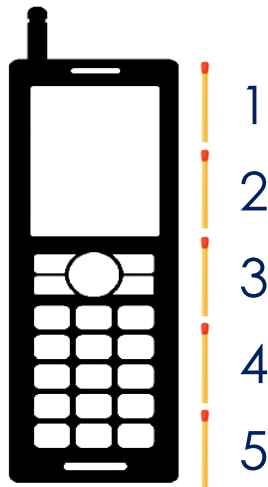
Non Uniform

4. Pencil



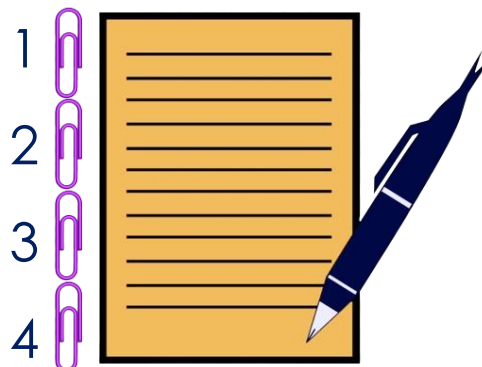
The length of
the window is **5**
pencils.

5. Match stick



The length of
the cell phone is
5 match sticks.

6. Paper clip



The paper is **4**
paper clips long.