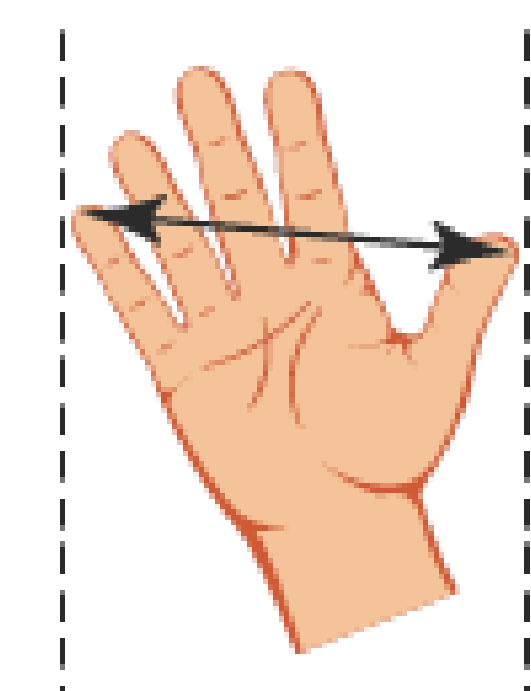
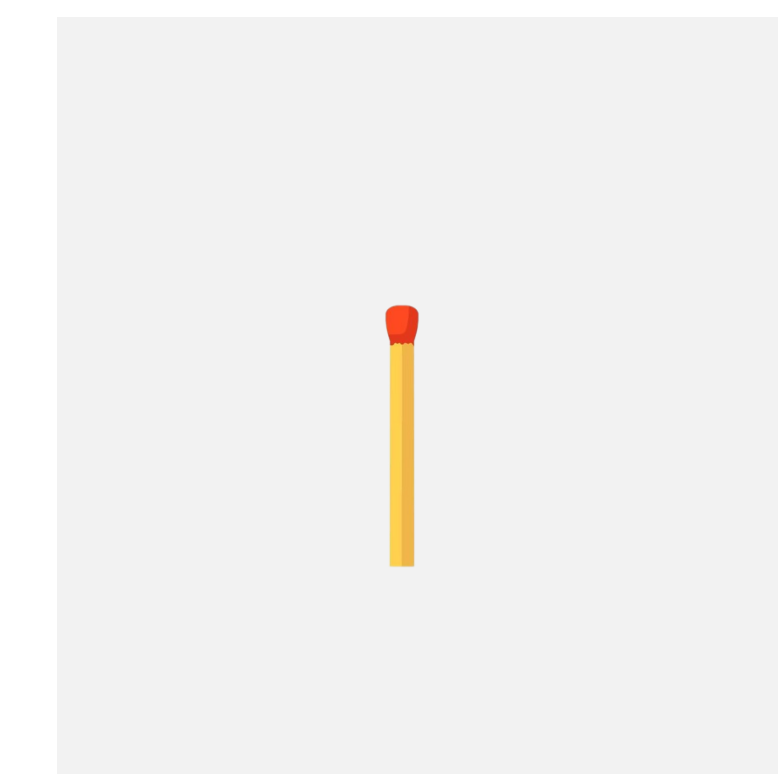
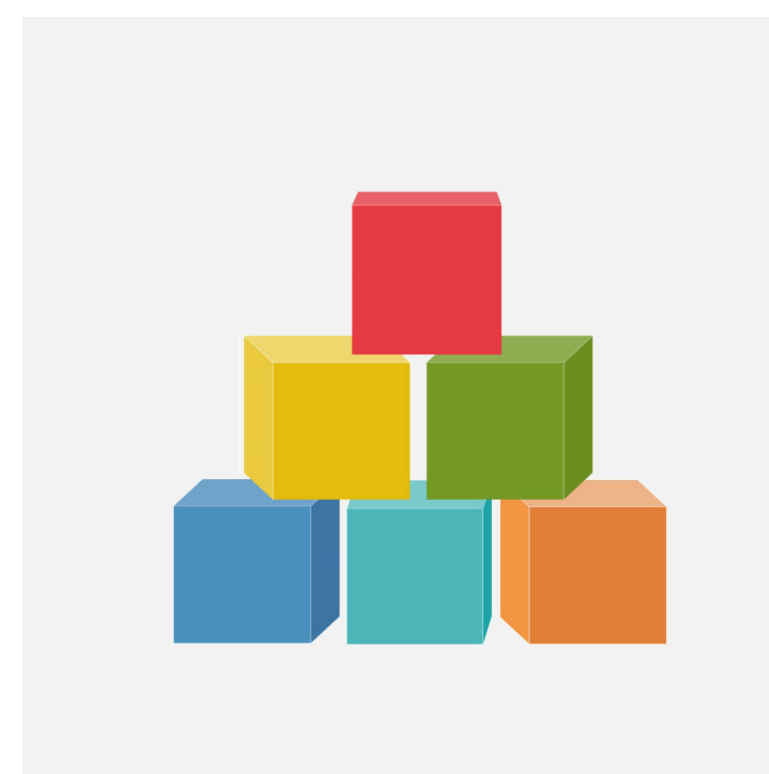
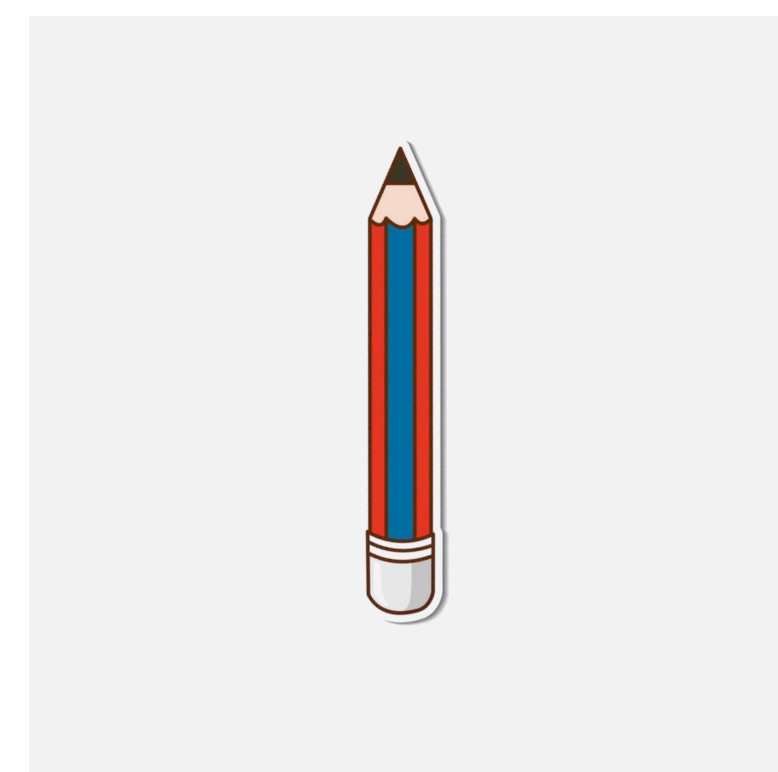
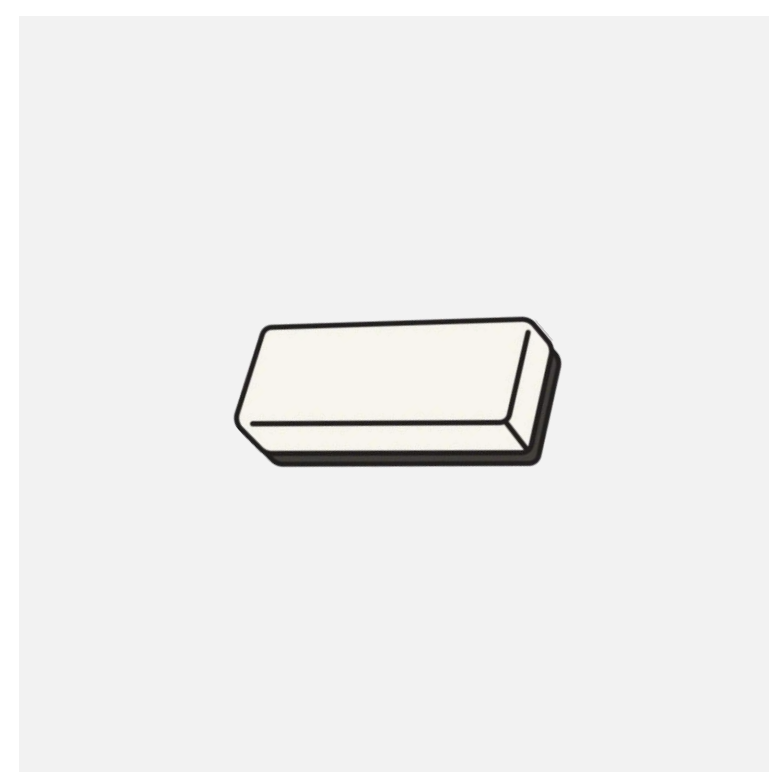
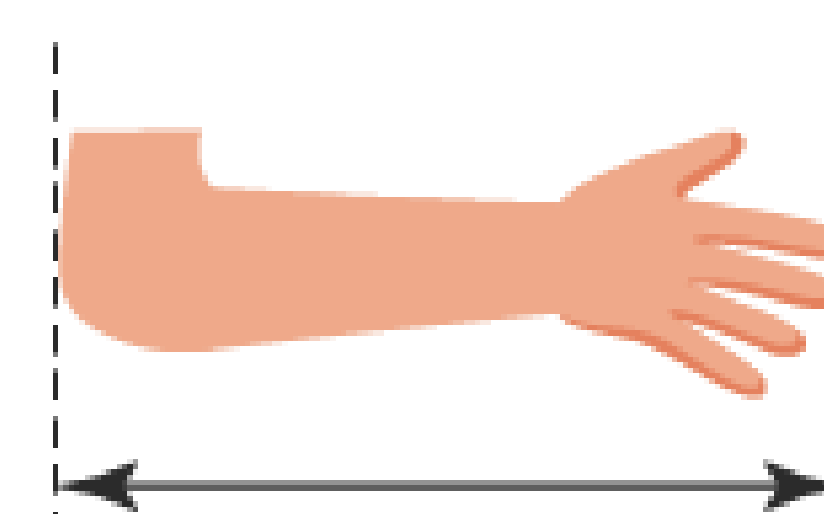


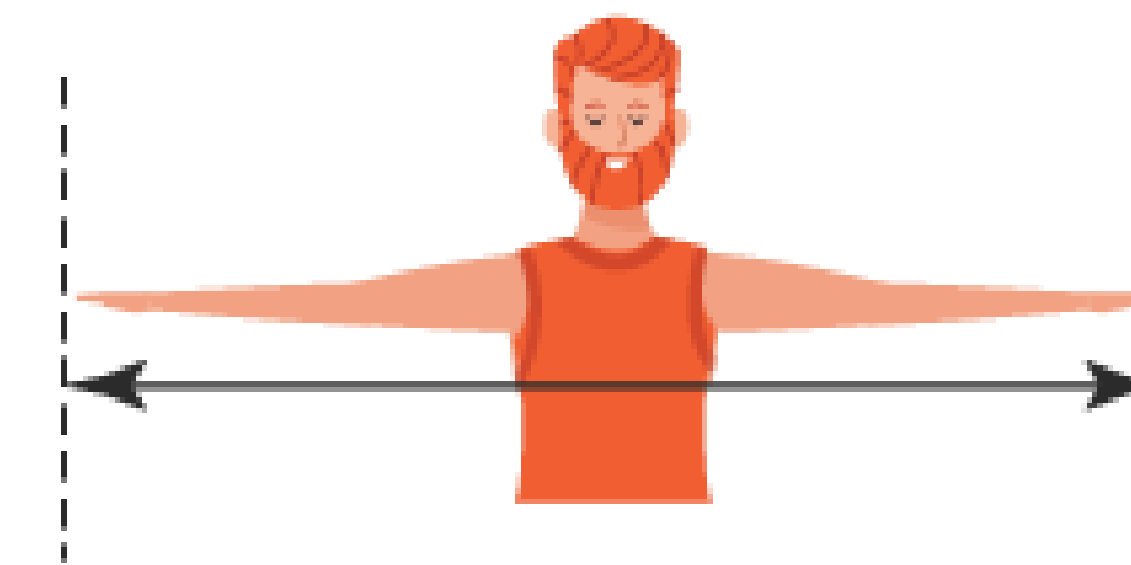
Non Standard Units of measurements



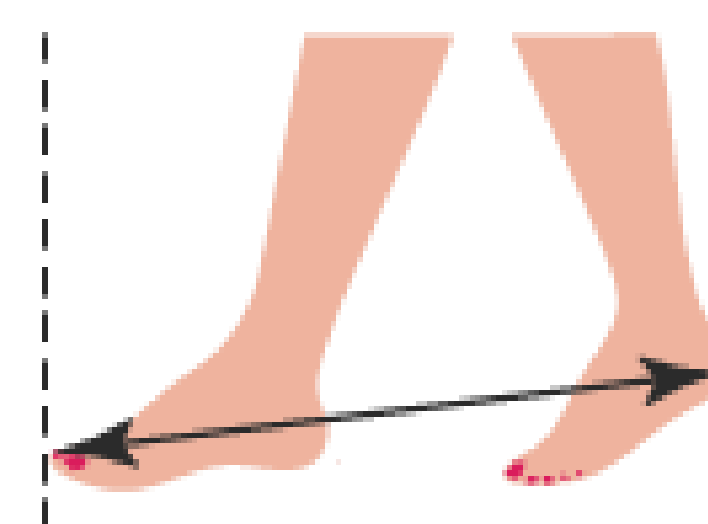
Handspan



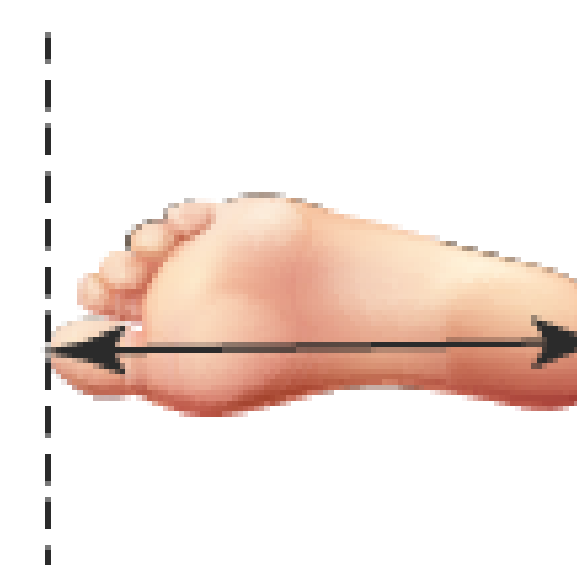
Cubit



Arm span

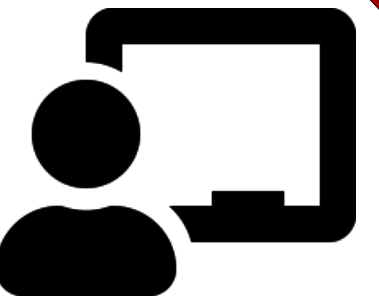


Pace

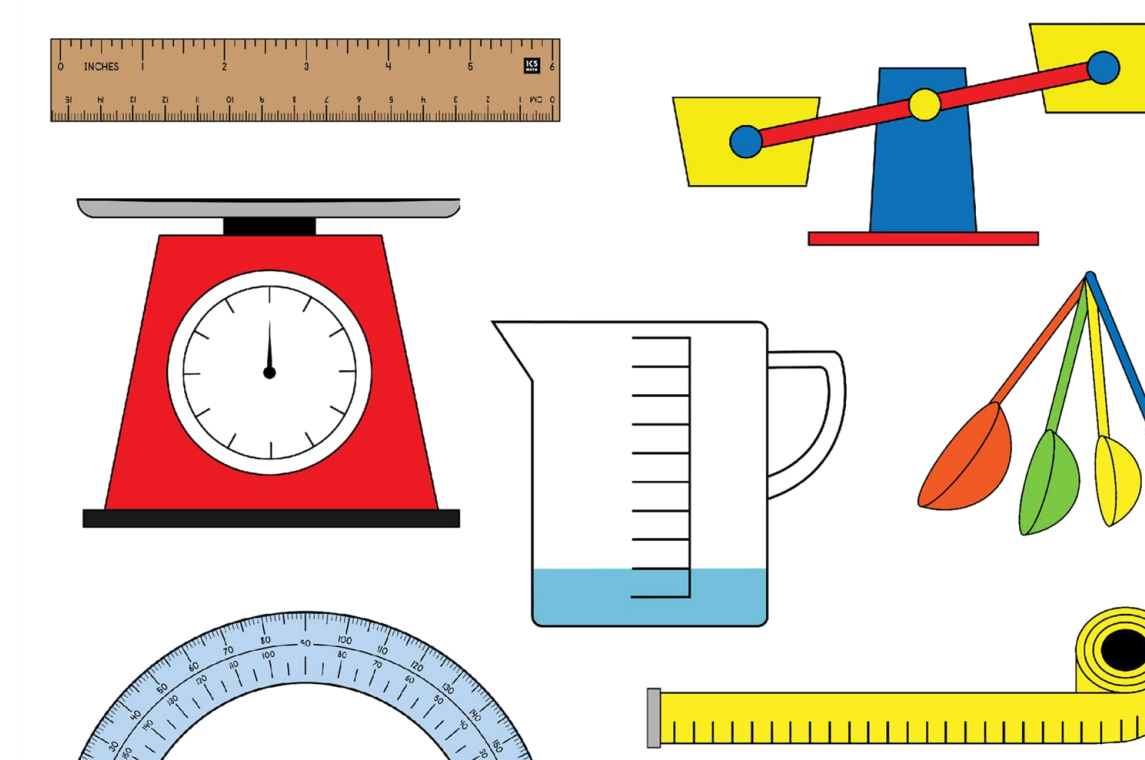
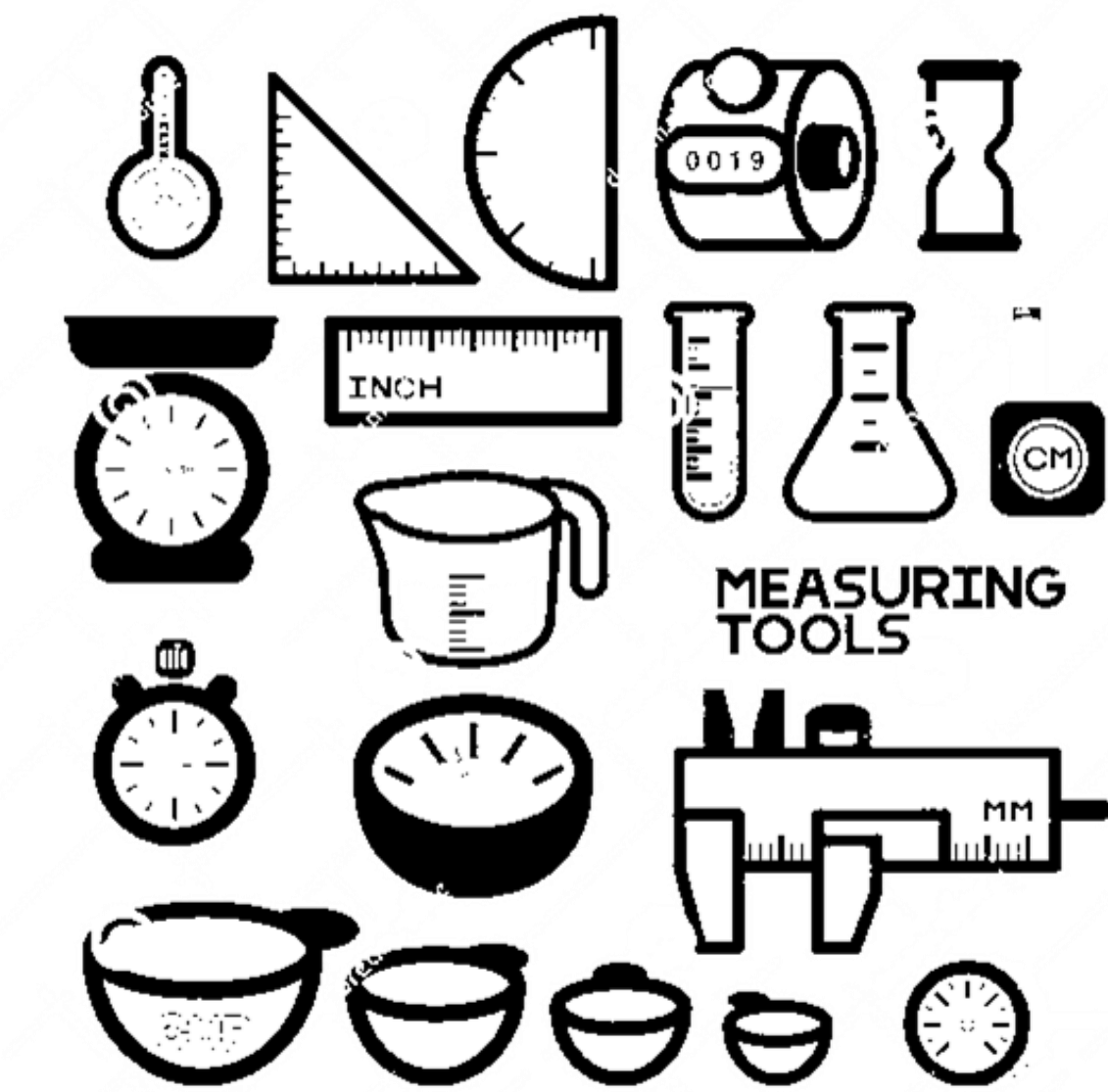


Foot span

Measurements

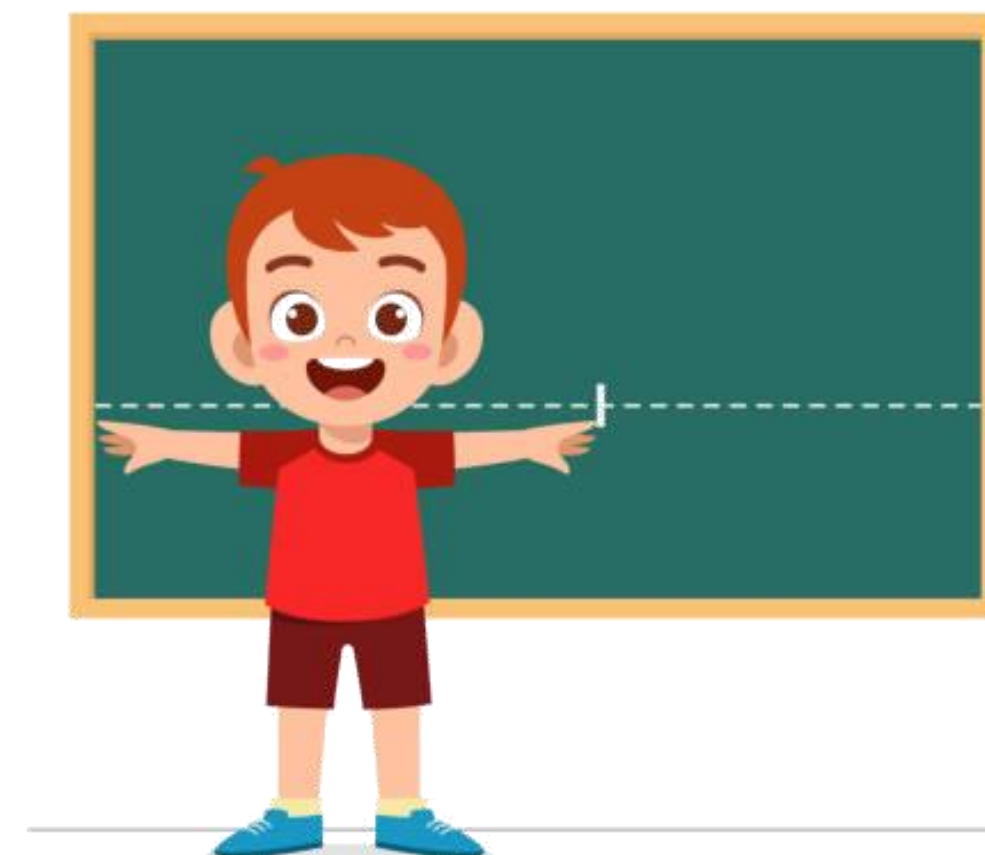


- Measurement quantifies the **characteristics of an object** or event, which we can compare with other things or events.
- Measurement is a technique in which the **properties of an object** are determined by **comparing** them to a **standard quantity**.
- Also, measurement is the essential **metric** 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

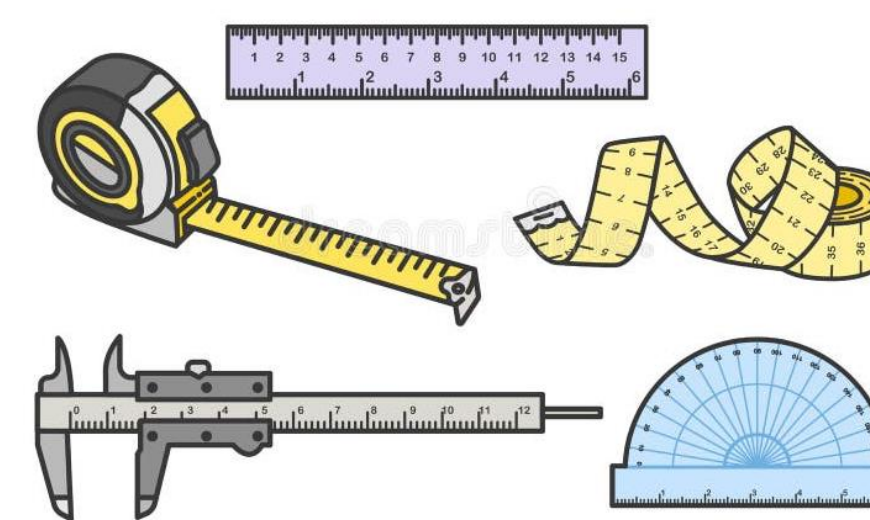
- Length is defined as the **measurement** or extent of something from **end to end**.
- Length is the **measure** of particular **objects** or **distance between two objects**.
- This length can be measured by some **units**.



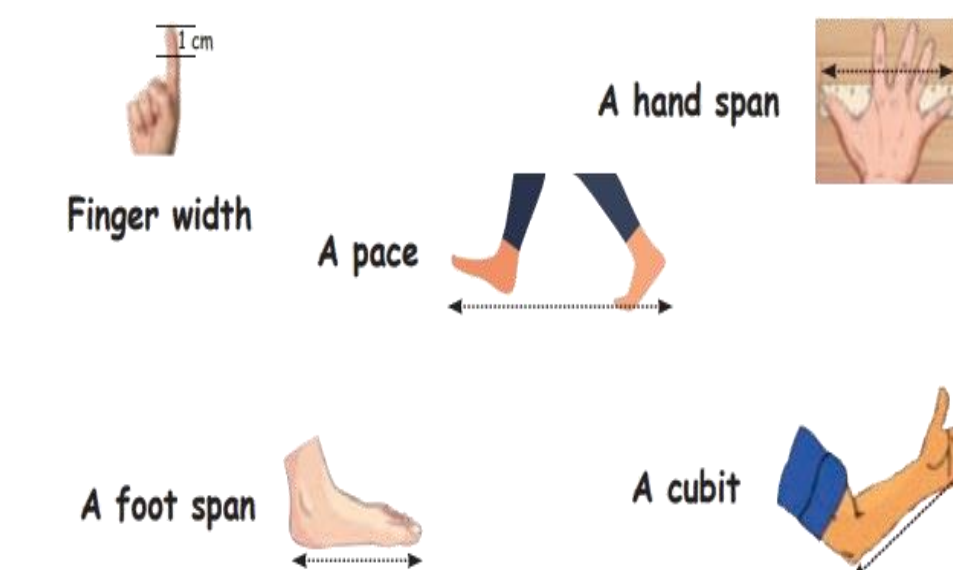
Units

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

❖ Standard units

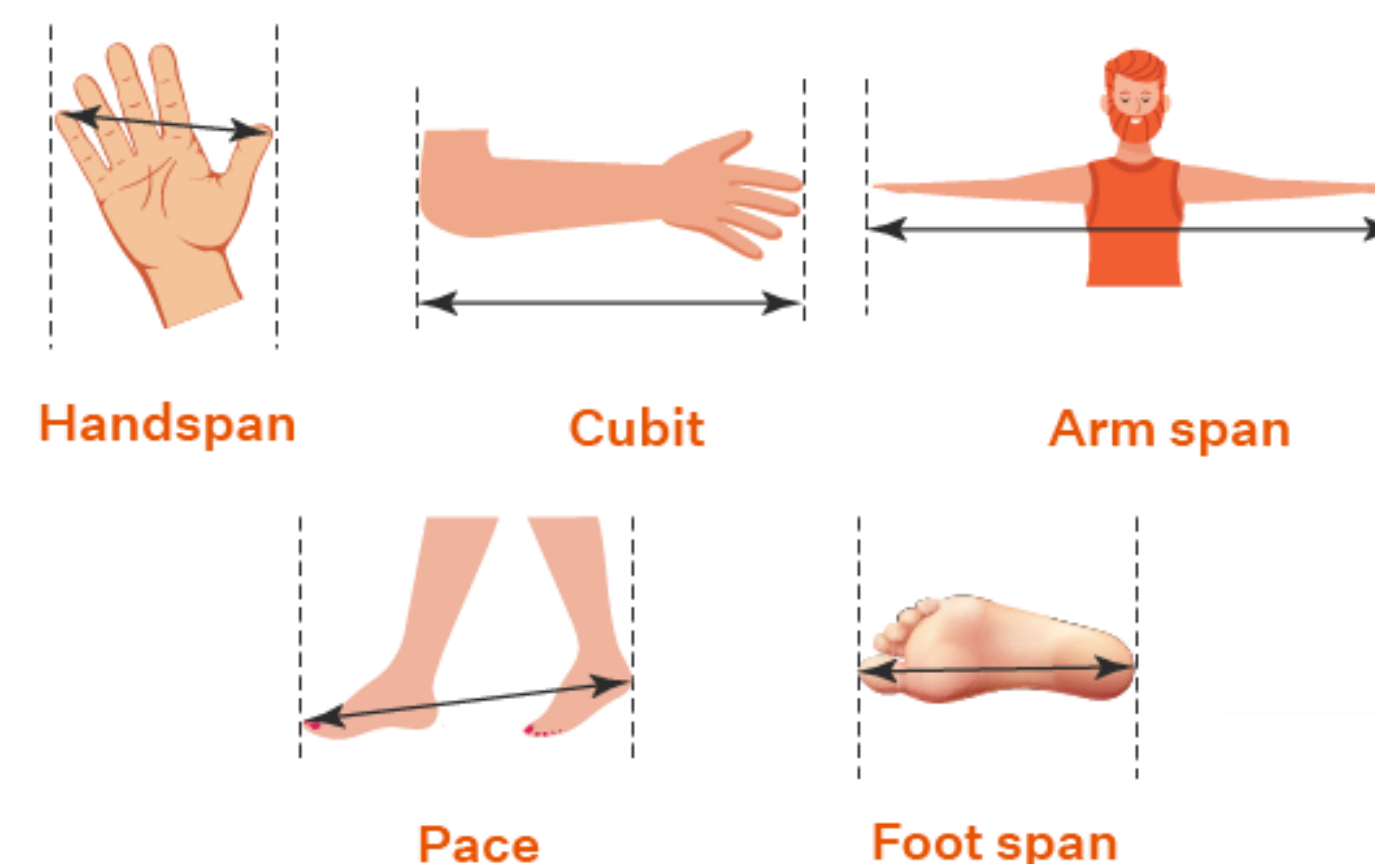


❖ Non Standard units



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

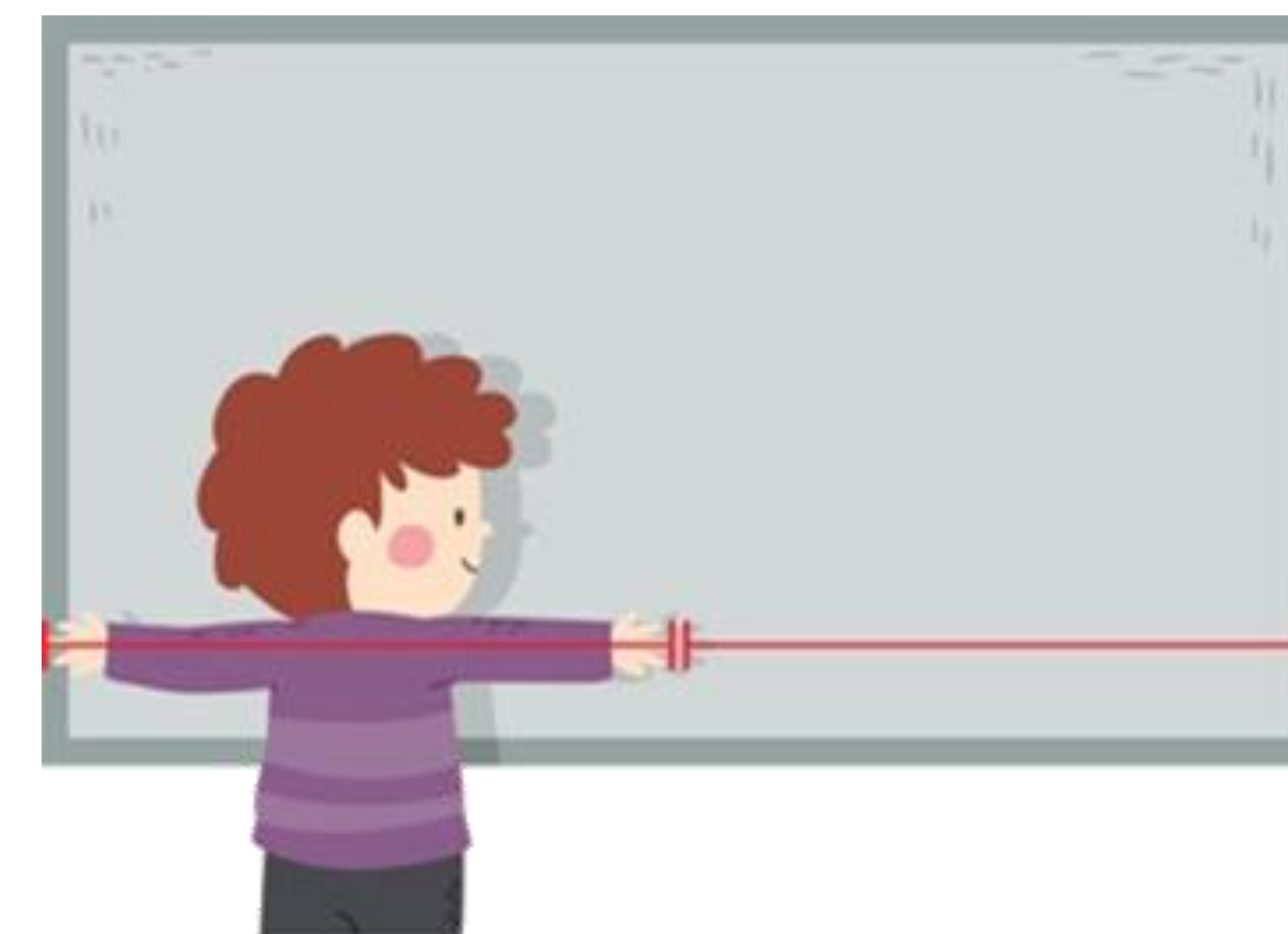
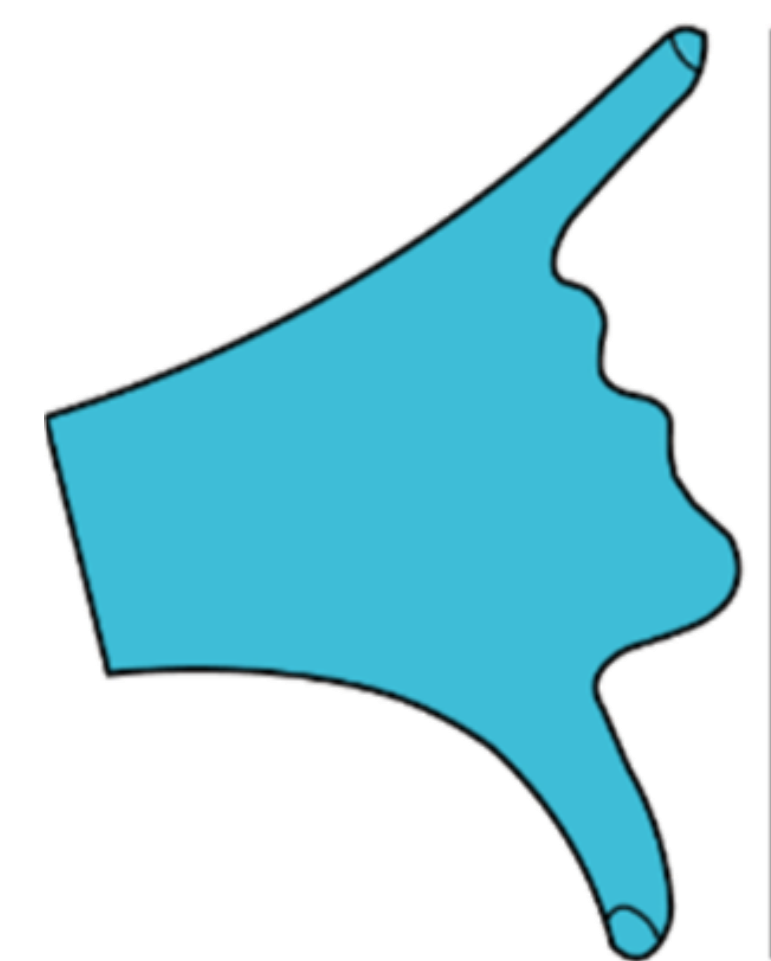
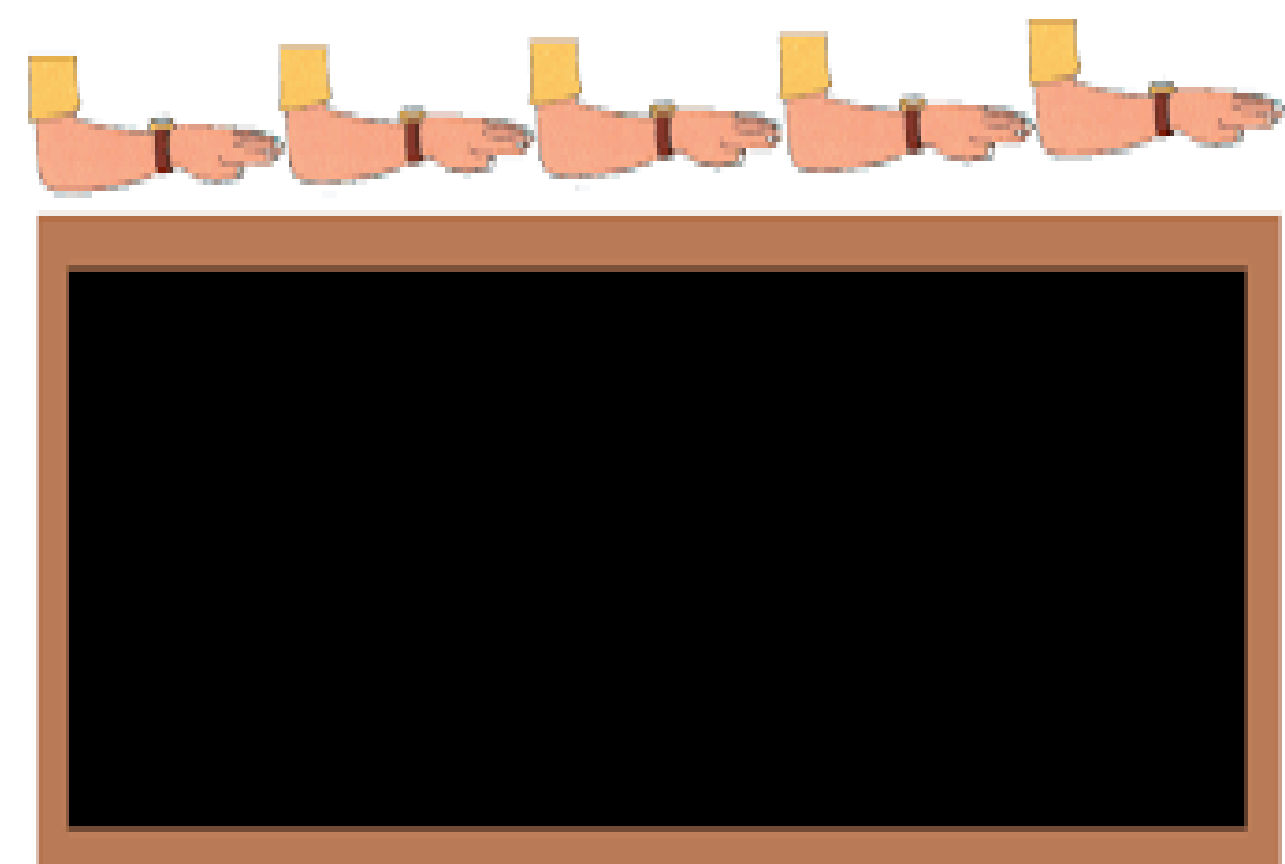
1. Palm
2. Hand span
3. Cubit / forearm
4. Digit
5. Foot
6. Pace
7. Fathom / Arm span

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

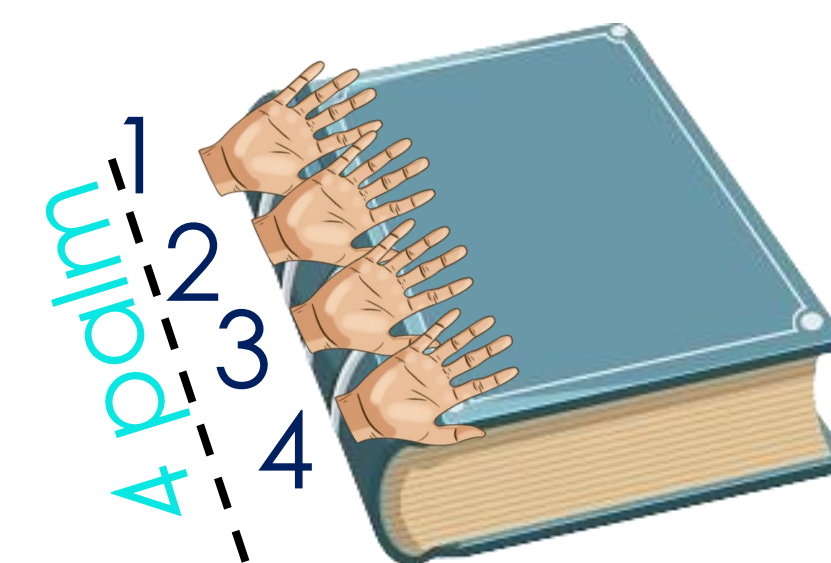
Palm

- 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.

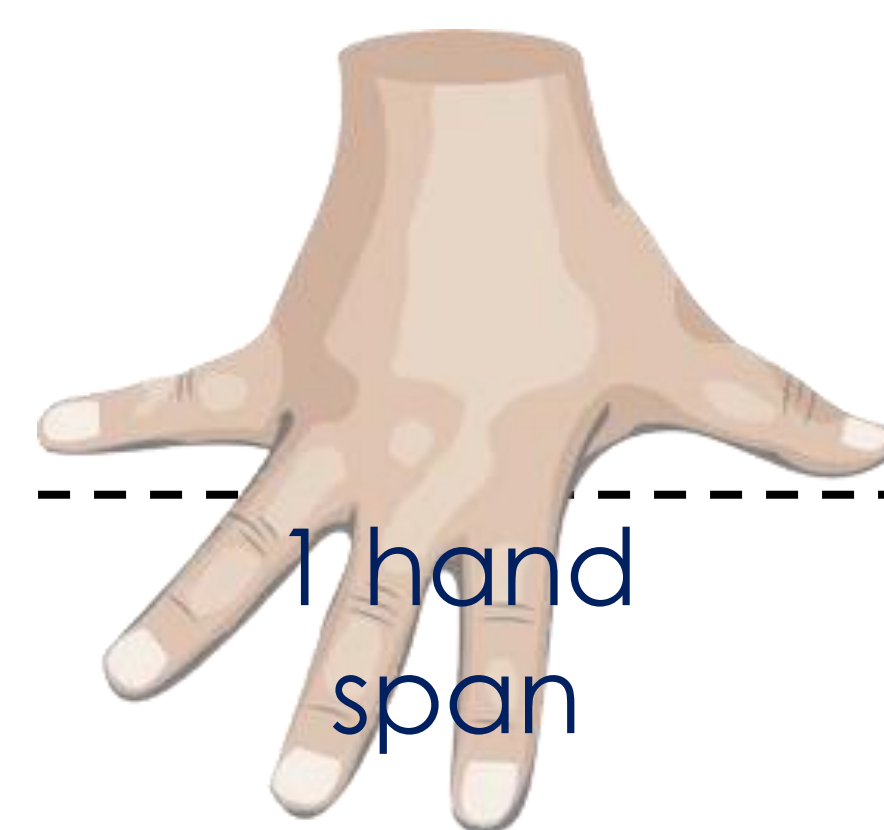


The dog's tail is about 2 palms long.



Hand Span

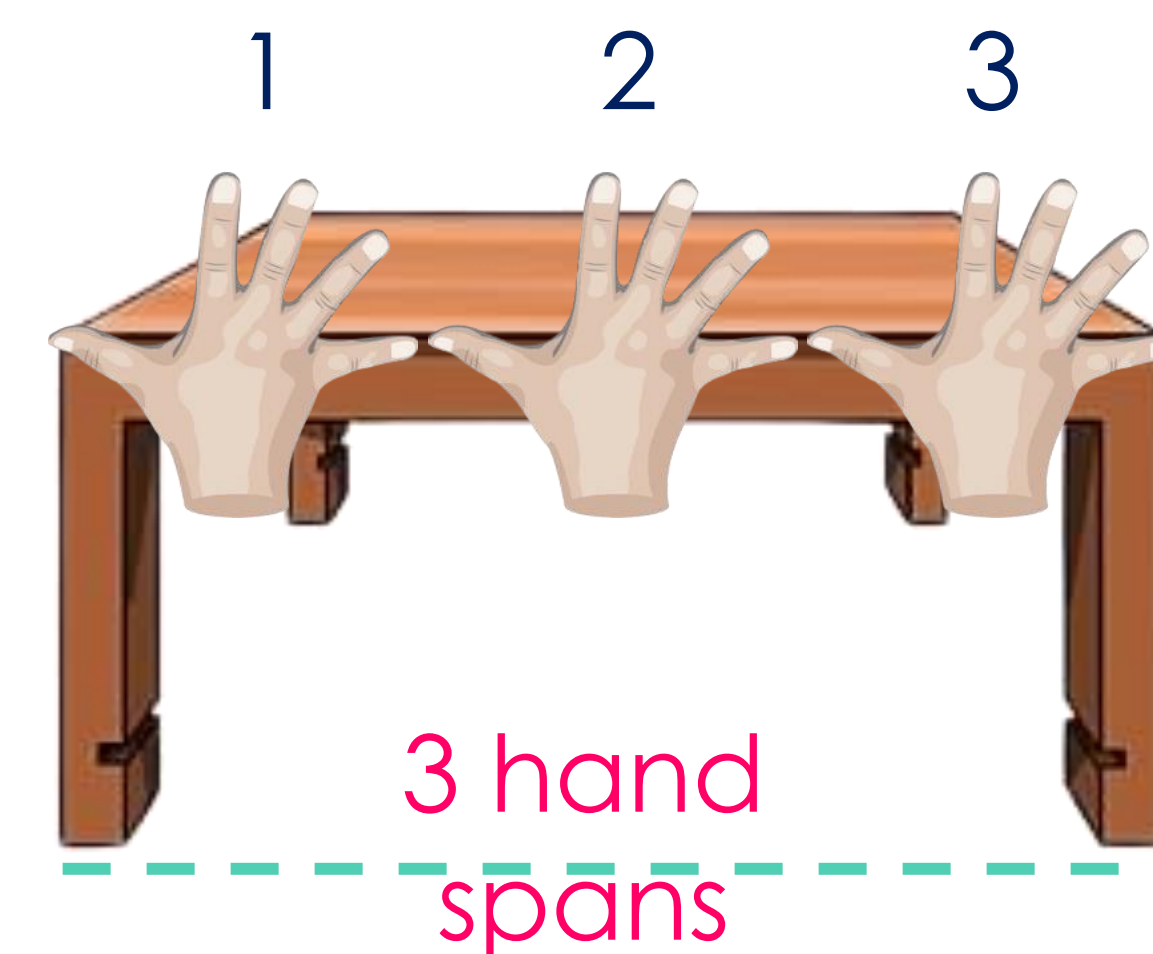
A hand span is the **distance** between the **tip of the thumb** and the **tip of the little finger** when the hand is fully stretched out.



It can change persons to persons.

Example :

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

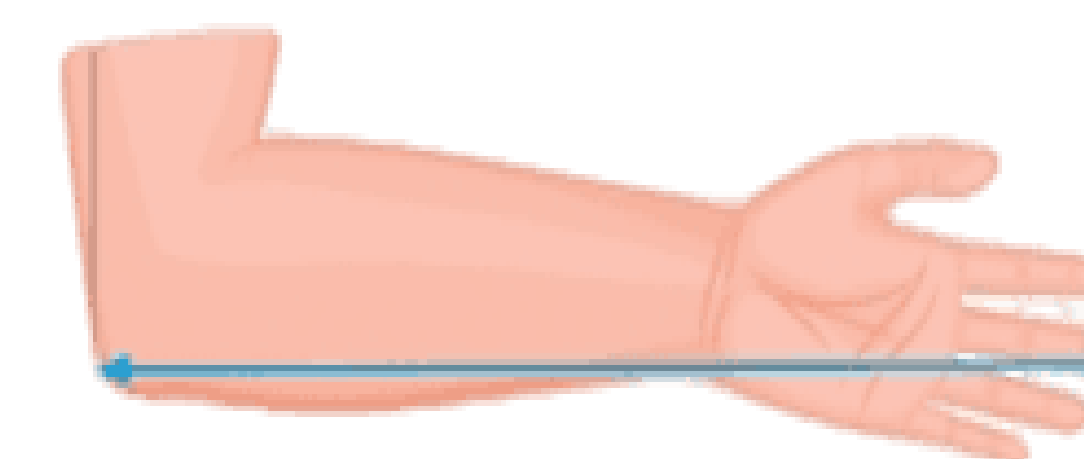
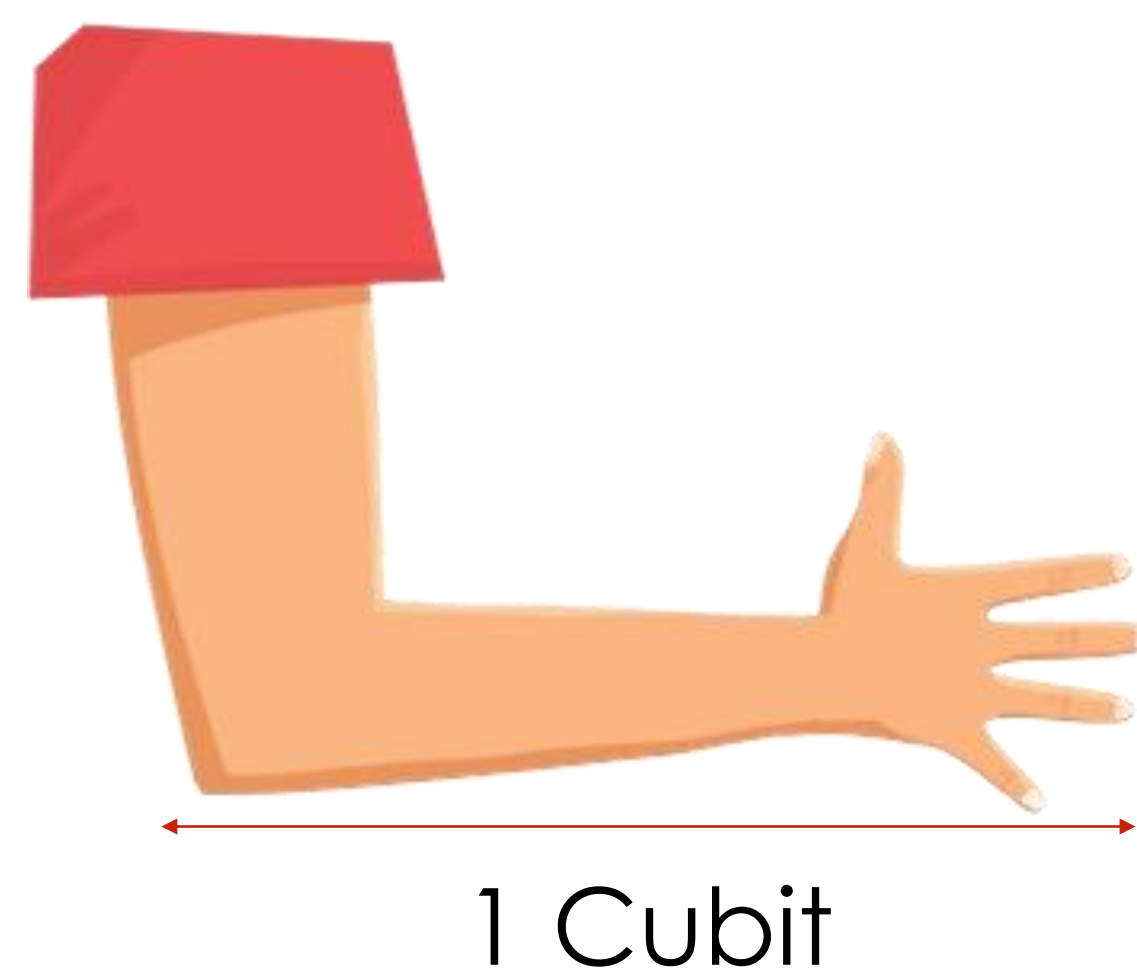


The ribbon is about **1 hand span** long.



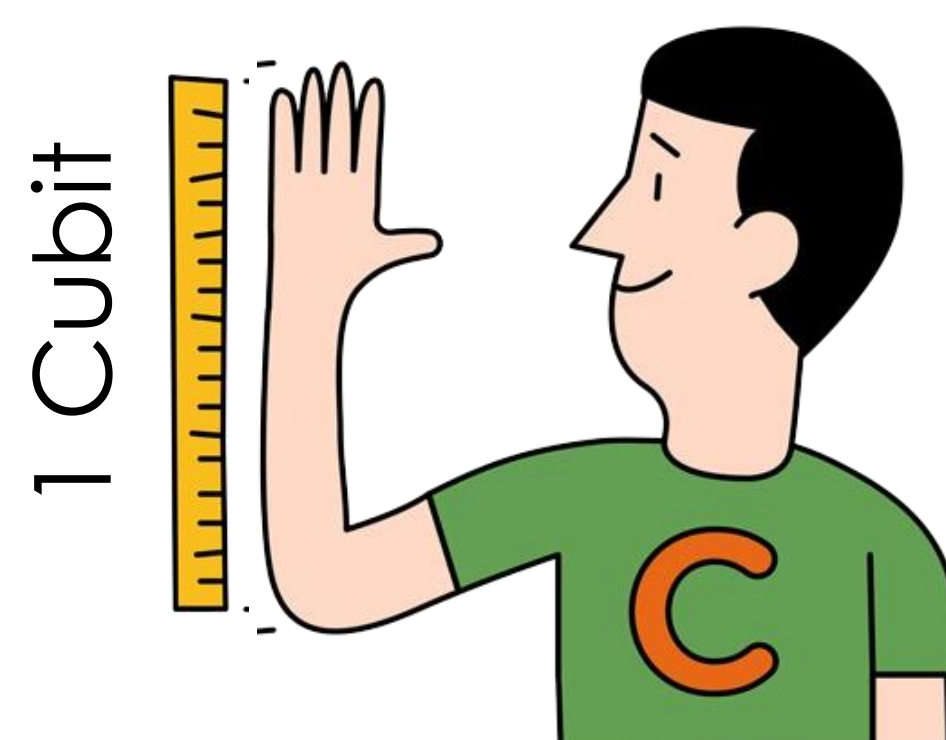
Cubit / Forearm

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

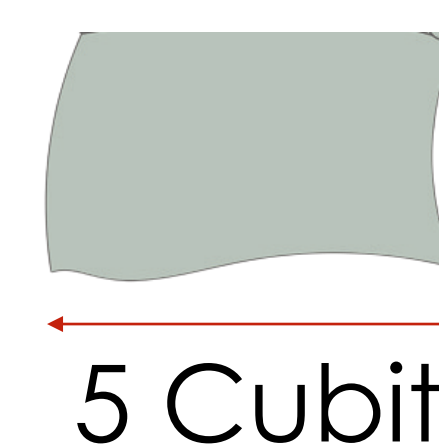
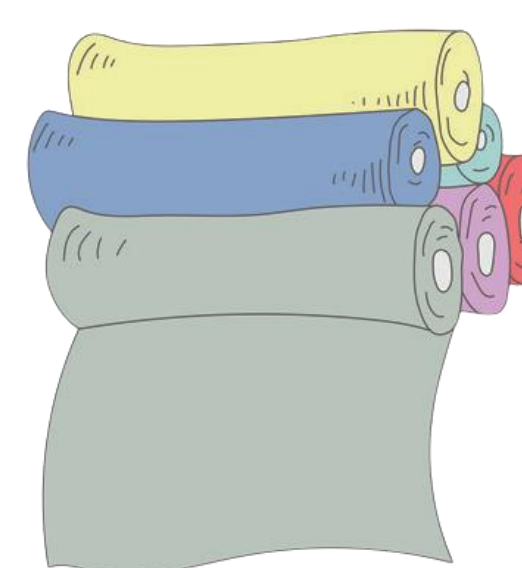


Example :

1 cubit size scale.



Cut 5 cubit length fabric.



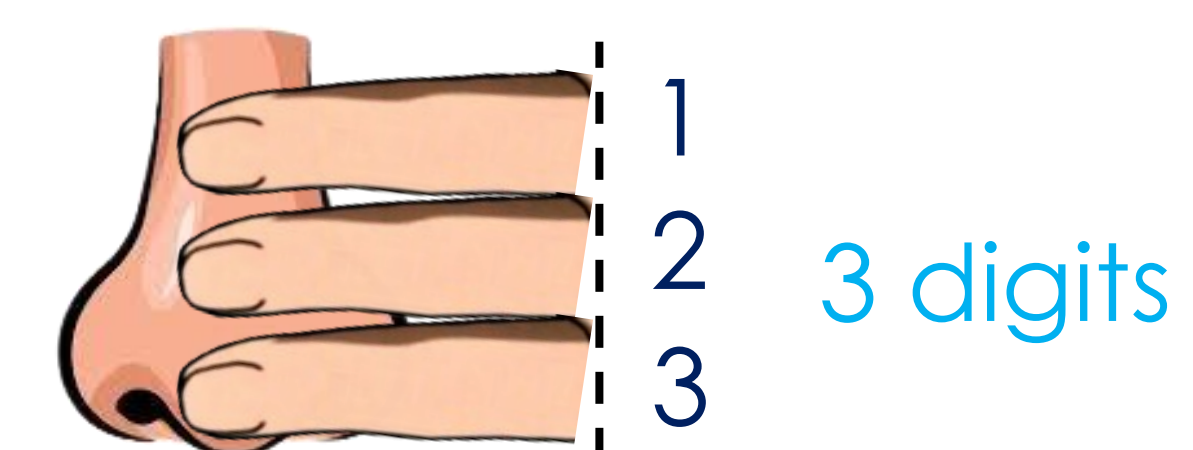
Digit

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.

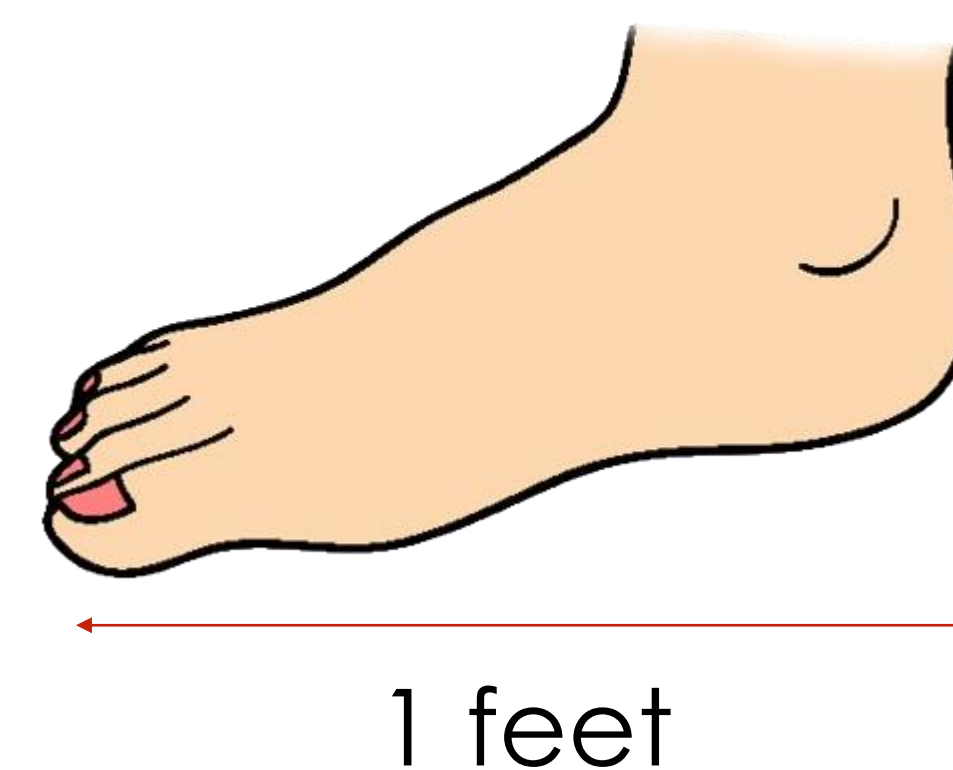


Coins can be measured in digits.



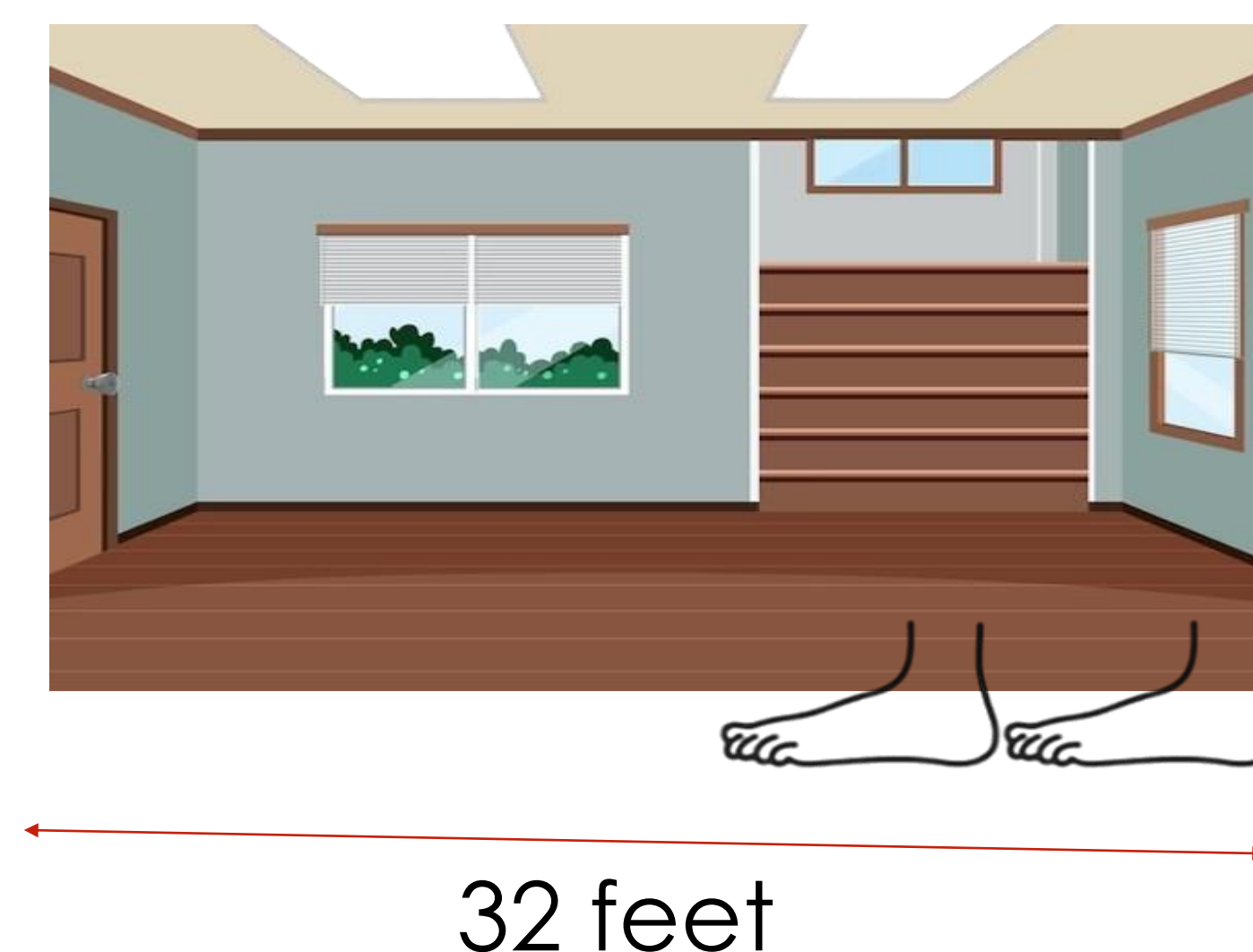
Feet

“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.



Example :

The park is about 100 paces from here

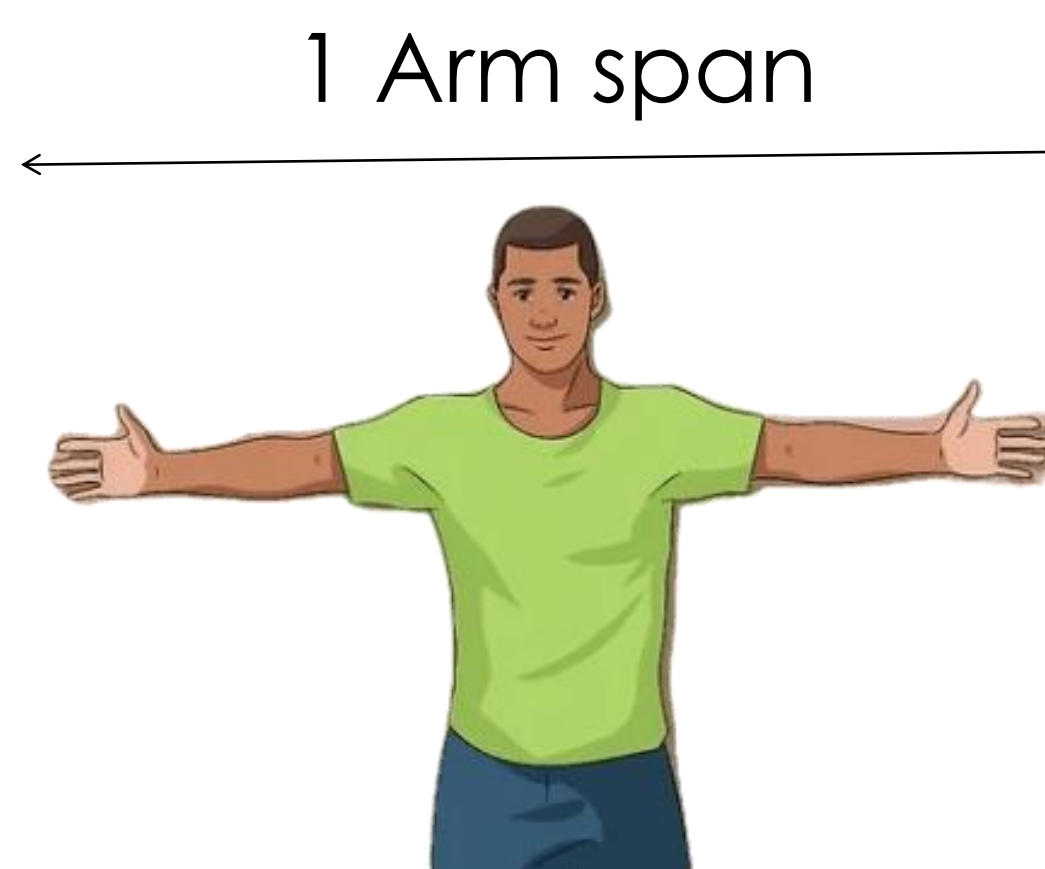


The staircase is about 12 paces long



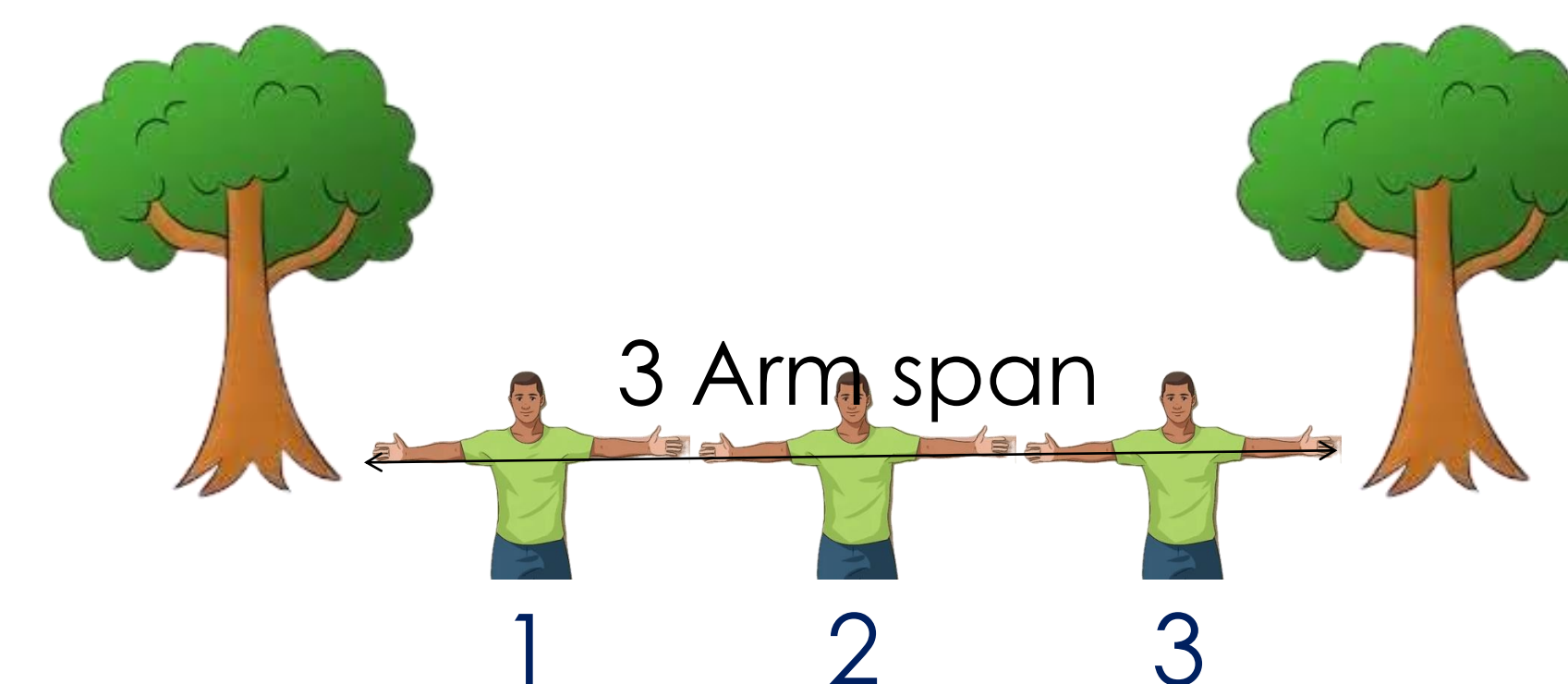
Fathom / Arm span

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

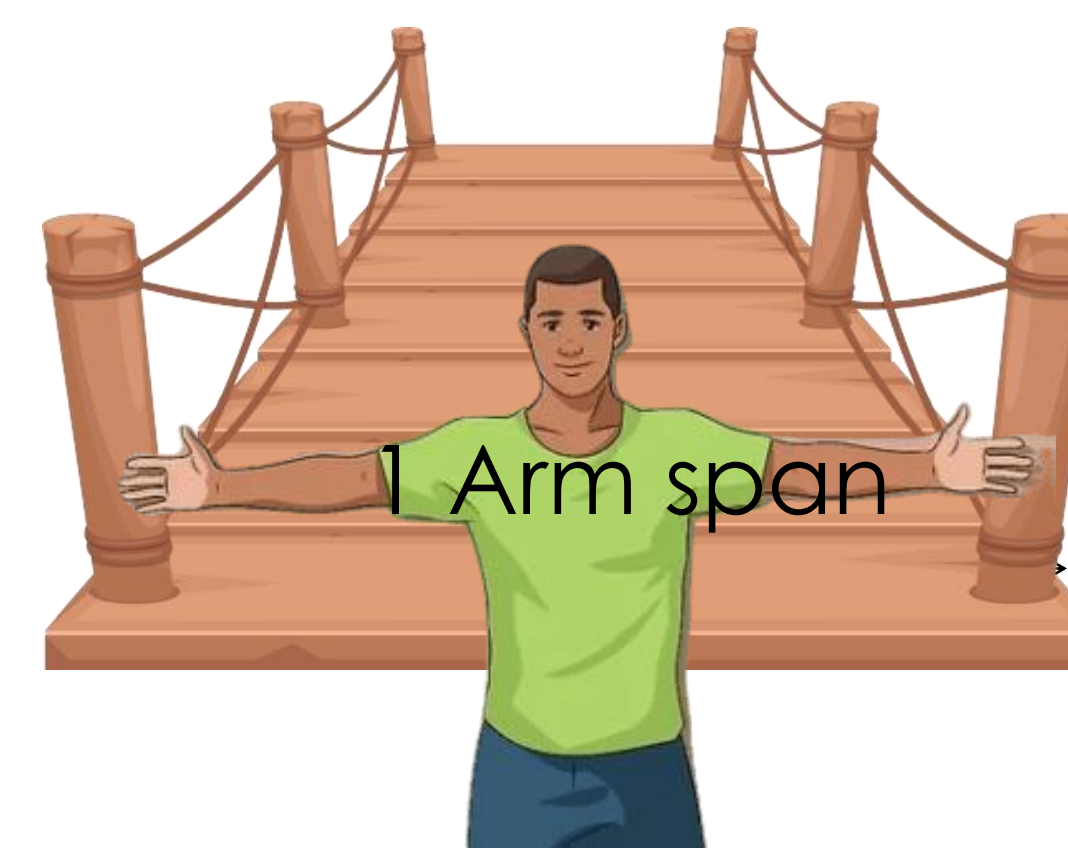


Example :

The distance between 2 trees is 3 arm spans wide.



The bridge is 1 arm span wide.



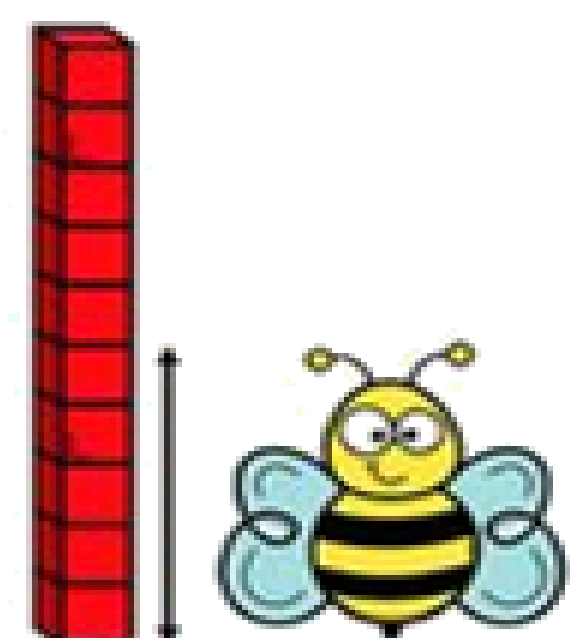
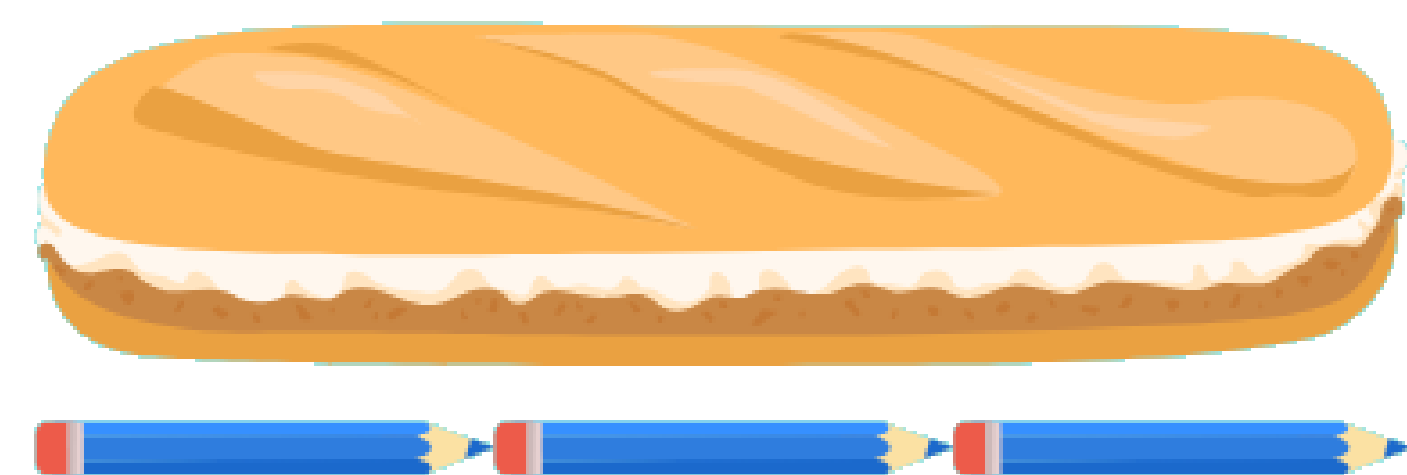
Non Uniform

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

Example :

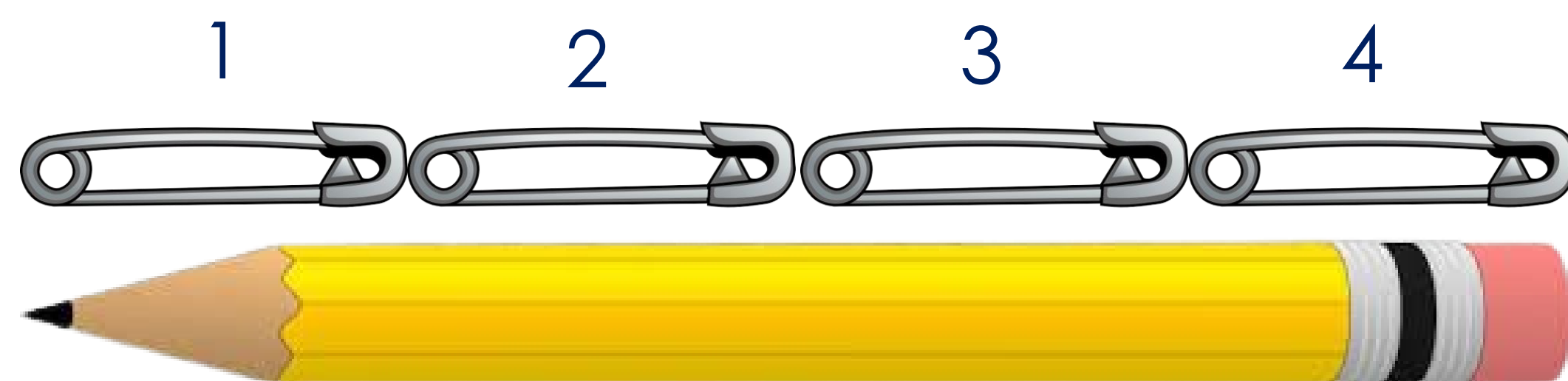
Paperclips, blocks, straws etc.

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



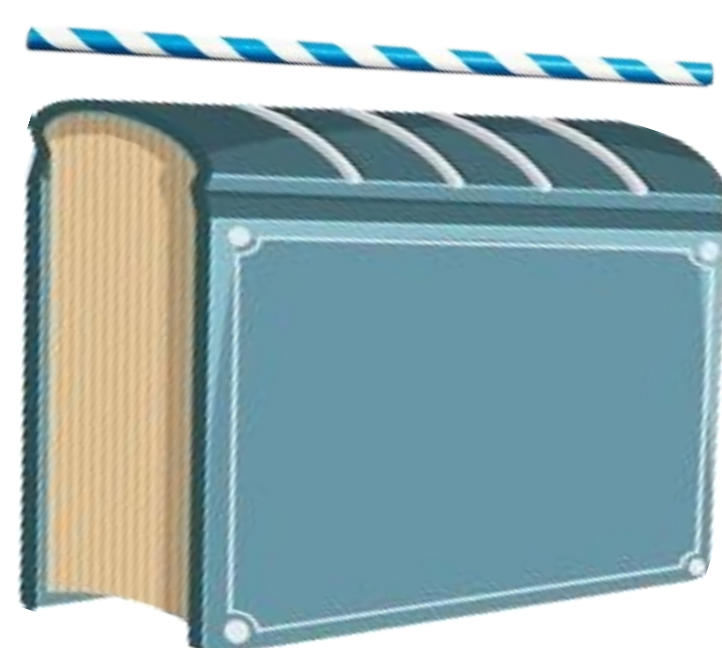
Non Uniform

Pin



The length of the pencil is 4 pins long.

Straws



The length of the book is 1 straw.

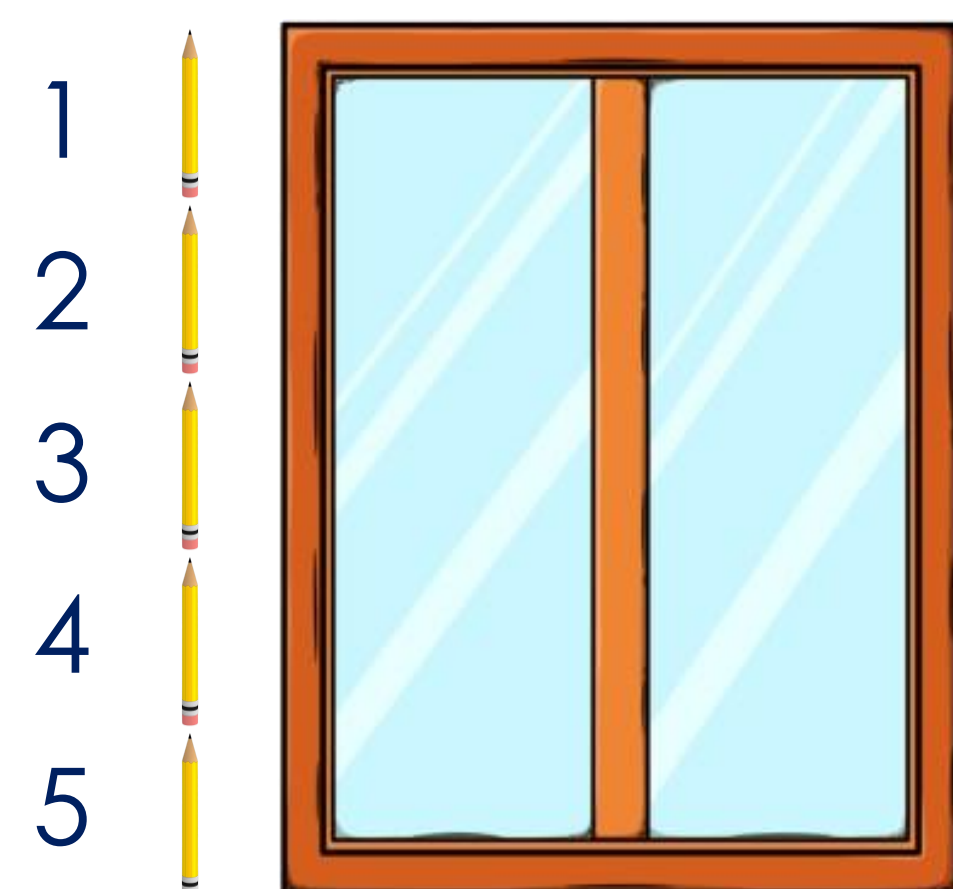
Eraser



The box is 4 erasers long.

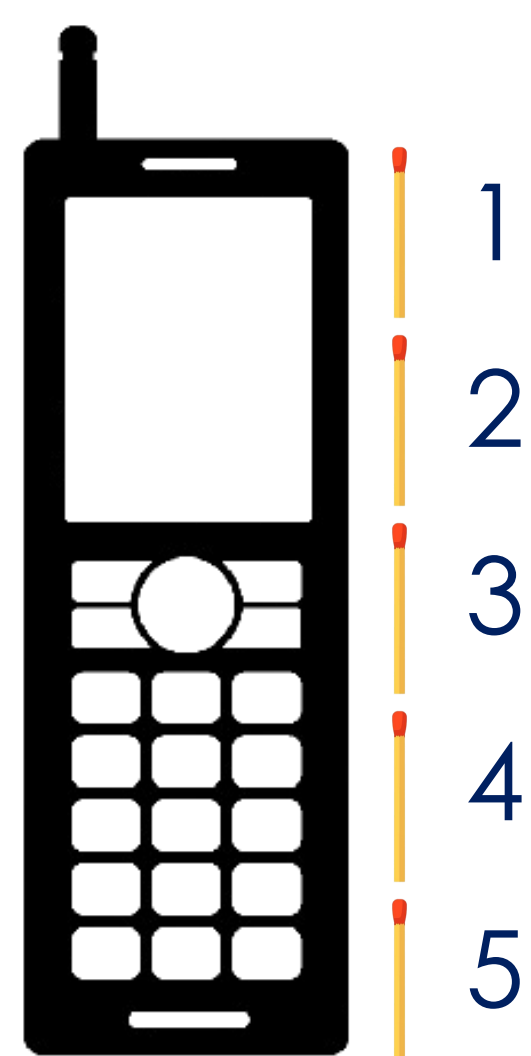
Non Uniform

Pencil



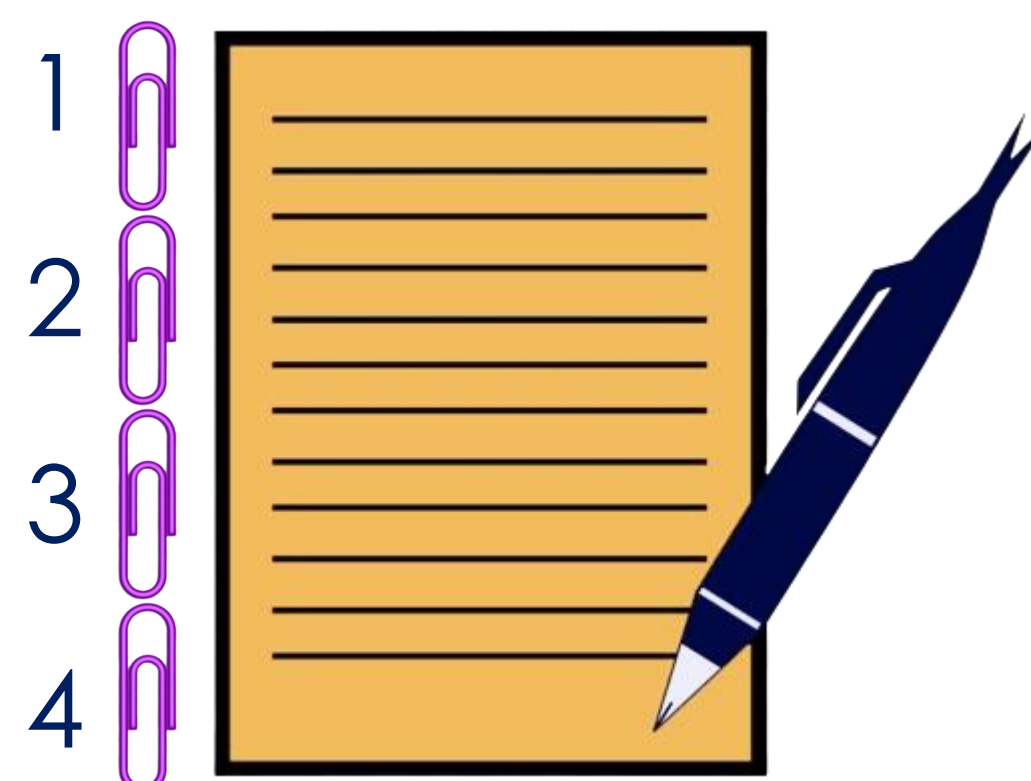
The length of the window is **5 pencils.**

Match Stick



The length of the cell phone is **5 match sticks.**

Paper Clip



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