UCIWAI SANGAM SCHOOL

YEAR 8

MATHEMATICS WORKSHEET NO. 1

Strand 3	Measurement
Sub Strand	Length / Area
Achievement Indicator	➢ Express length and area using appropriate units and language of comparison. ➢ Calculate any length and area using basic mathematical formulas ➢ Calculate perimeter, circumference, height and distances

Non-standard Units of Length
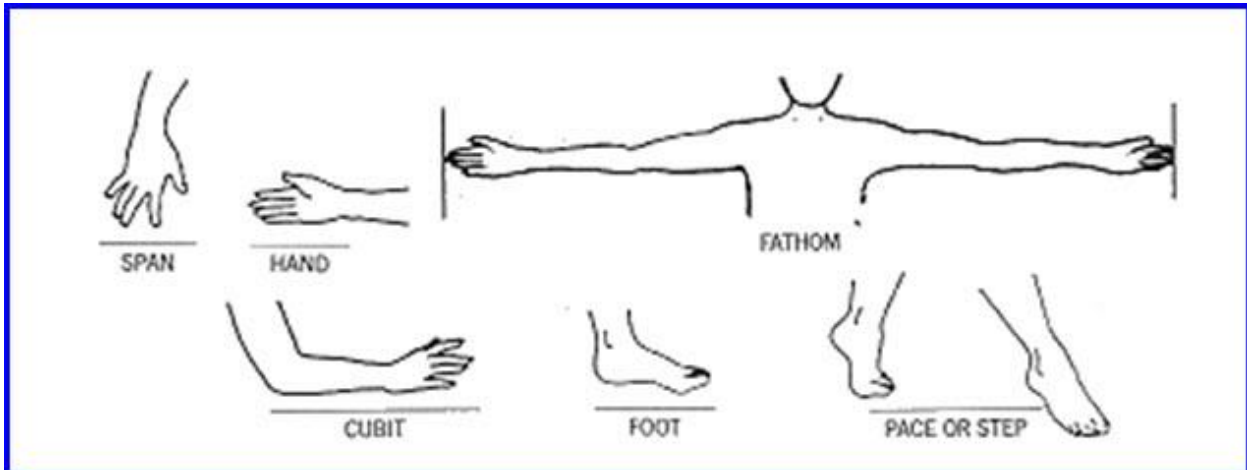
Standard Units

Measuring Length – the basic unit for measuring length is the **metre (m)**, hence the name '*metric system*'.

Two units which are fractions of metre and are commonly used are *centimeter (cm)* and *millimeter (mm)*.

Another longer unit which is in common use is *kilometer (km).*

You need to learn that:

> 1 kilometer (km) = 1000 meters (m)
>
> 1 meter = 100 centimeters (cm)
>
> 1 centimeter = 10 millimeters (mm)

Exercise

1. Which non-standard units could be most appropriate to measure the following:
   a) length of your house _____
   b) distance between your room to your washroom _____
   c) thickness of Maths 4C Exercise Book _____
   d) length from your home to the main highway _____

2. Convert these measures into the units required:
   a) 150 cm = _____m
   b) 1564m = _____ km
   c) 1.8km = _____m
   d) 15.29m= _____cm
   e) 2.8cm = _____mm

3. Use a meter tape or ruler and measure the length and widths of things in the table below and write their appropriate units
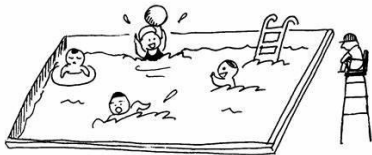
Item	Length	Width
Table		
Television		
Door		
Window		
Your room		

4. The distance from Silio's home to school is 12.5km. If he goes to school and returns home daily, how far did he travel in a week?

5. The area of a football field is 5000m^2. What is the length of the field if the width is 50m?

50m
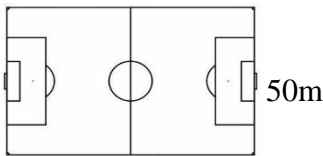
6. The area of a swimming pool is 72m^2. If the width is 6m, what is the length of the pool in cm?

7. The road from Uciwai to Sigatoka town is 46.6km. Write this distance in meters.