

## Motion and Measurement of Distance

### Distance and measurement

The length between two points is called "Distance". The length is measured to determine the distance between two points.

### Standard Units of Measurements

Measurement is actually a comparison between known and unknown quantity. Non standard units of measurements are hand span, foot span, finger width and palm length. Unknown quantity is the object to be measured and the known quantity is called as "UNIT". Nowadays, world has accepted a set of units to be the Standard unit of Measurements. This set or system of Standard units is known as SI System. As per SI system, METER is the standard unit of Measurement.

Table of metric conversion	
1 centimeter =	10 millimeter
1 decimeter =	10 centimeter
1 meter =	10 decimeter
1 dekameter=	10 meter
1 hectometer=	10 dekameter
1 kilometer =	1000 m = 10 ha

### Correct measurement of length

For correctly measuring the length, the scale by which the object is to be measured should be placed along its length.

Measure the object from the zero point of the scale, if using any other full mark of the scale, then the reading of this mark must be subtracted from the reading at the other end.

The eye must be exactly in front of the point where the measurement is to be taken.

### Measuring a curved line

A curved line can be measured with the help of a thread which can then be measured on meter scale.

