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TENDER HEART HIGH SCHOOL, SEC-33B, THD
class: IV
Subject: Science

Topic: Measurement
Date: 11.11.2024

Good Morning students

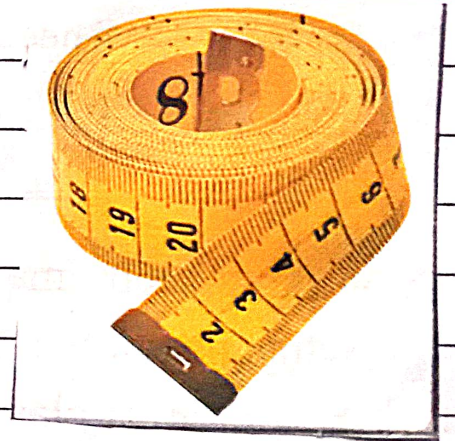
This chapter is for class IV from your book Srijan ICSE Science and is being submitted to you on 11.11.2024.

All the physical quantities like length, time, capacity, weight and temperature are measured using different measuring units. We also use different instruments to measure these quantities.

Measuring length

You must have seen a tailor using an inch tape or measuring tape to measure the cloth.

A ruler, an inch tape and a metre scale are standard objects that are used to measure the length.



Units of length

The standard unit of length is metre. Larger lengths are measured in kilometre.

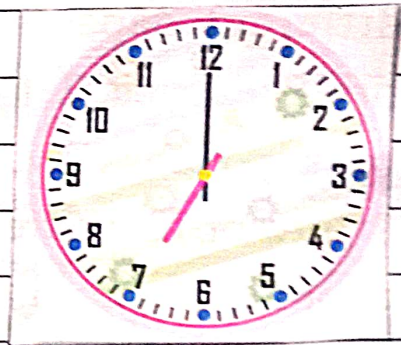
$$10 \text{ mm} = 1 \text{ cm}$$

$$100 \text{ cm} = 1 \text{ m}$$

$$1000 \text{ m} = 1 \text{ km}$$

Measuring time

Watches and clocks tell us the time in hours, minutes and seconds.



A longer duration of time is a day. There are 24 hours in a day. 365 days together make a year.

Units of time

The standard unit of time is second.

$$60 \text{ seconds} = 1 \text{ minute}$$

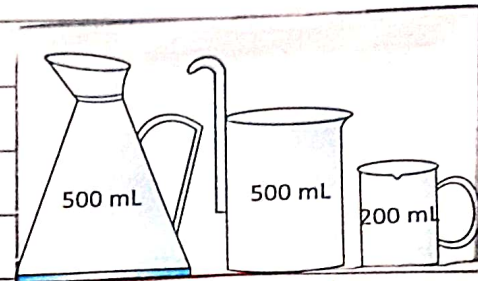
$$60 \text{ minutes} = 1 \text{ hour}$$

Measuring capacity
The amount of a liquid that a container can hold is called its capacity.



Units of capacity

The standard unit of capacity is litre. Smaller quantities of liquids are measured in millilitres and larger quantities are measured in kilolitre.

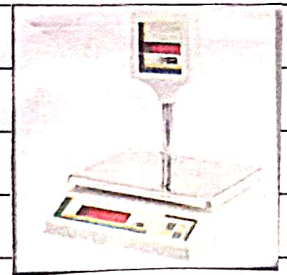


$$1000 \text{ mL} = 1 \text{ L}$$

$$1000 \text{ L} = 1 \text{ KL}$$

Measuring Weight

Weight is measured using a beam balance, pan balance or electronic (digital) balance.



Units of weight

The standard unit of weight is gram. Smaller quantities are measured in milligram and larger in kilogram.

$$1000 \text{ mg} = 1 \text{ g}$$

$$1000 \text{ g} = 1 \text{ kg}$$

Measuring temperature

The measure of hotness or coldness of a body is called its temperature. A clinical thermometer is used to measure body temperature.

The standard unit of temperature is degree Celsius ($^{\circ}\text{C}$). Temperature is also measured in degree Fahrenheit ($^{\circ}\text{F}$).

Home - assignment.

Take a clinical thermometer. With the help of your parents, measure the body temperature of your family members.