



UNIT-4









LENGTH



Recall

We measure the length of the objects using non-standard units such as



A hand span



Finger width

A pace





A foot span







Need for standard Measurement.





Tabulate the length of your class table measured by five of your friends with non-standard units.

SI. No	Students name	Finger width	Hand span	Cubit
1	friend 1	25	15	7
2	friend 2			
3	friend 3			
4	friend 4			
5	friend 5			



Activity 2 Measure the length of ribbon by your hand span.





hand span friend 1 friend 2 -_____ hand span ____ hand span friend 3 -



Measurements measured using non standard units change from person to person.



Activity 3

Students are divided into two groups. One group should measure the length of the class room in non standard units and the other group in standard units.

Measure length of objects using simple tools.

friend 4 -



Group of five students measure the length of the black board by given objects.

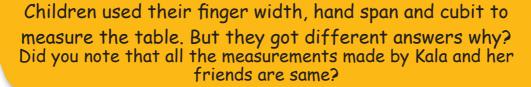


Pencil, Eraser, Measurement Scale & Notebook.

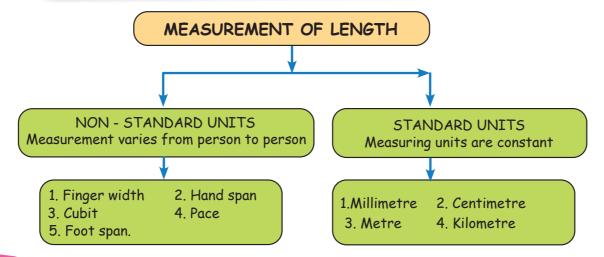
SI. Students		Length of the black board			
SI. No	name	Pencils	Erasers	Scales	Notebooks
1	Kala	10	35	7	14
2					
3					
4					
5					











4.2 Millimetre and Centimetre.

Introduction

This is a centimetre scale/ruler. 1 denotes 1 centimetre, 2 denotes 2 centimetre and so on. The length between 0 and 1 has 10 parts denoted by small lines. Measurement of each part by small lines is millimetre.





From the picture,

1 centimetre equal to 10 parts.

So 10 millimetre = 1 centimetre.

	Short	form	١
Millimetre Centimetre Metre		-	mm cm
Kilometre		-	km

Can you tell me how many millimetres are there between 0 and 1? Now, can you tell me how many millimetres are there between 1 and 2? 1 and 3?

Now, can you tell me how many millimetres are there in 1 centimetre?

Teacher's note: Teacher can help the children to find length of the objects by using non standard units.

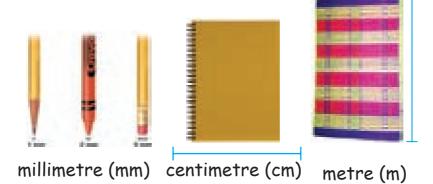




Let us know

100 centimetre = 1 metre 1000 metre = 1 Kilometre Millimetre is the smaller unit of length. Kilometre is the bigger unit of length.

Example:



Activity 5







Measure the length of ribbon by tape roll.

Raj cm Anu cm Ram cm Kavi cm

Measurements measured using standard units do not change from person to person.

Practice

Measure the length of following things by centimetre scale and write it in the table below.













cm





cm

cm

Teacher's note: Teacher can guide the children to measure the things properly.



Objects	d			
Length in centimetre	30 cm	cm	cm	cm

4.4 Centimetre and metre.





a. Write metre or centimetre in the blank space.

i. My pencil is 6 _____ long. ii. My hairpin is ____ long.

iii. This tree is 3 _____ high. iv. Height of coconut tree is 15____.

b. Meena has a ribbon of 50 cm and Reena has a ribbon of 110 cm.

Whose ribbon is the longer? (





Measure the length of following things in your class room using metre tape and fill in the boxes.









metre

metre

metre

metre

Understand the order of magnitude between centimetre, metre and kilometre as units.





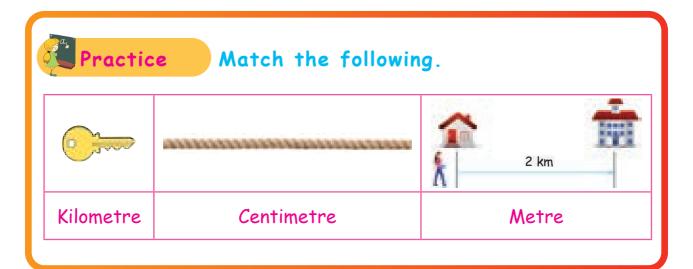
a. Centimetre Metre

b. Metre Silometre

c. Kilometre Centimetre







- 4.5 Comparison of estimation with actual measurement
- Activity 7 Estimate the length of the following objects and verify with actual length.

SI. No	Name of the object	Estimated length	Actual length
1			
2			
4			
6			
7.			
8.			









Circle the odd one.

2. cm 3. m 4. Cubit 1. mm

2. Fill in the blanks.

1 metre = 100 cms 2 metre = ____ cms

3 metre = ____ cms 4 metre = ____ cms

3. Match the following.

10 milimetres	1 kilometre
100 centimetres	1 centimetre
1000 metres	1 metre

Write non standard Units.

1. Finger span

2. _____

3.

5.

Write standard Unit.

1. millimetre

2. _____

4. _____

6. Write in short form.

millimetre : ____ centimetre : ____

metre : ____ kilometre : ____



Write the given units in order.

mm

metre

cm

Ascending order _____, ____, ____, ____

Descending order _____, ____, ____, ____