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- \* In how many steps will Dorji cross the road?
- \* How many cups can be placed in a line on this table?

- \* How many pots can be placed to reach the tree branch?
- \* How many shirts can be hung on this wire?





Is it easier to start measuring from the 0 mark? Look at the things drawn near the scale and find out their lengths.

Mouse! Where

are you?

I am

here

- \* What are the little lines on the scale used for?
- \* Look for things that are
  - \* About 10 centimetres long
  - \* Between 10 and 20 centimetres long
  - \* Less than 1 cm long.
- \* Draw some of them here.



# How Big is My Hand?

Measure the length of your thumb and your little finger. Use the scale on this page.

Which is longer? Thumb or little finger?

Bring a measuring-tape to your class.



Guess the length of different parts of your body and check if your guess is correct. You can use a scale, string, measuringtape etc.



Think

- How will you know the number of centimetres if you measure with a rope, shoe-string, thread etc.?





Compare your measurement with your friends'.

- ➡ Who has the biggest head and who has the smallest head? \_\_\_\_\_, \_\_\_\_\_
- Who has the longest hand (from middle finger to wrist)?
- Which is longer? Your ear or your nose? \_\_\_\_\_
- Is any of your nails more than 1 centimetre long?







2021-22

#### Gibli and the Grains

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Ant Gibli has to reach the grains. She is looking for the shortest road. Can you tell her which is the shortest?



Can you draw a road shorter than these? What is the length of that road?

It is more important for children to be able to get an estimate of a metre as related to known things, such as, their own heights, rather than do tedious exercises of converting metres to centimetres, etc. Children at this stage may not be able to perceive of bigger units such as a kilometre. They must be encouraged to speak of a kilometre in the context of a story or narrative. The Map of Agra is an exercise with a narrative involving children, with familiar images (icons) to help the initial understanding of mapping in 2 dimensions.



Let Us Make a Metre-rope

You must have seen shopkeepers measuring cloth with a metre rod.

- ➡ Use a metre rod and a rope.
- ➡ Make a knot at one end of the rope.
- ◆ Keep the metre rod with the rope.
- Mark 1 metre on the rope and make a knot there.
- Now the length between the two knots is 1 metre. This is your metre-rope.

If you don't get a metre rod use a measuring-tape and mark 100 centimetres on the rope. 100 centimetres are equal to a metre, so you get the metre-rope.



Guess and Check



## Activity 1

- \* Find some things that look 1 metre long.
- \* Use your metre-rope to find which of these things are more or less than 1 metre.

Name of the thing	More than 1 metre	Less than 1 metre
Length of table	-	
Width of table		
Width of door	_	
Length of door	-	<u> </u>
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# Activity 2

Some Class III children have marked a 1 metre height on the wall of their class.

You can also mark 1 metre on your class wall.





Now make a chart of the heights of your friends.

To measure the centimetres, you can use your small scale.



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### Centimetres or Metres?

Which of these will be in centimetres and which will be in metres?

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- ✤ Width of a computer screen
- \* Length of a Pagdi worn by Sikhs
- ✤ Height of a 1-year old child
- \* Length of a banana
- 🔆 Waist of an elephant
  - ✤ Height of a sugarcane
  - ✤ Depth of a well
- ✤ Height of your mother
- \* Distance from classroom to school gate
- \* Length of your father's arm.

## Trip to Agra

Marie and Baichung are going with their family to Agra. They get down at Agra Cantt. Railway Station and take a rickshaw to Taj Mahal. After 3 hours, they start for Agra Fort, again in a rickshaw. In the afternoon they take a bus to go to Fatehpur Sikri.





Now look at the distances between these places (for kilometres we write km).

- ♦ Agra Cantt. Railway Station to Taj Mahal 5 km
- ✤ Taj Mahal to Agra Fort 2 km
- ✤ Agra Fort to Fatehpur Sikri 40 km

Now find from the map

Which is farther from Agra Cantt. Railway Station — Taj Mahal or Fatehpur Sikri?

HIIIIIIIIII shows the railway line.

Which of these is nearer to the railway line:

- Babarpur forest or Taj forest?
- Agra Fort or Taj Mahal?

Which is closer to the river Yamuna:

Taj Mahal or the Railway Station?





#### The Long Tail Competition

Do I have

a tail?

The animals in this picture had a competition. The animal who had the longest tail won a prize. Now who do you think won the first prize and who won the second....? Just guess the length of the longest tail.