



মণিপুরৰ শাসনৰত্ন (মণি)

**DEPARTMENT OF EDUCATION (S)**  
Government of Manipur

**CLASS-III**  
**CHAPTER-4**  
**LONG AND SHORT**

Lali is selling things at her father's shop. A farmer comes to buy rope.



Can you give me 7 arms of rope?

Here is your 7 arms of rope.



But this is only 6 arms long.

Why don't you measure your arm with this rope and take 7 times of that length?

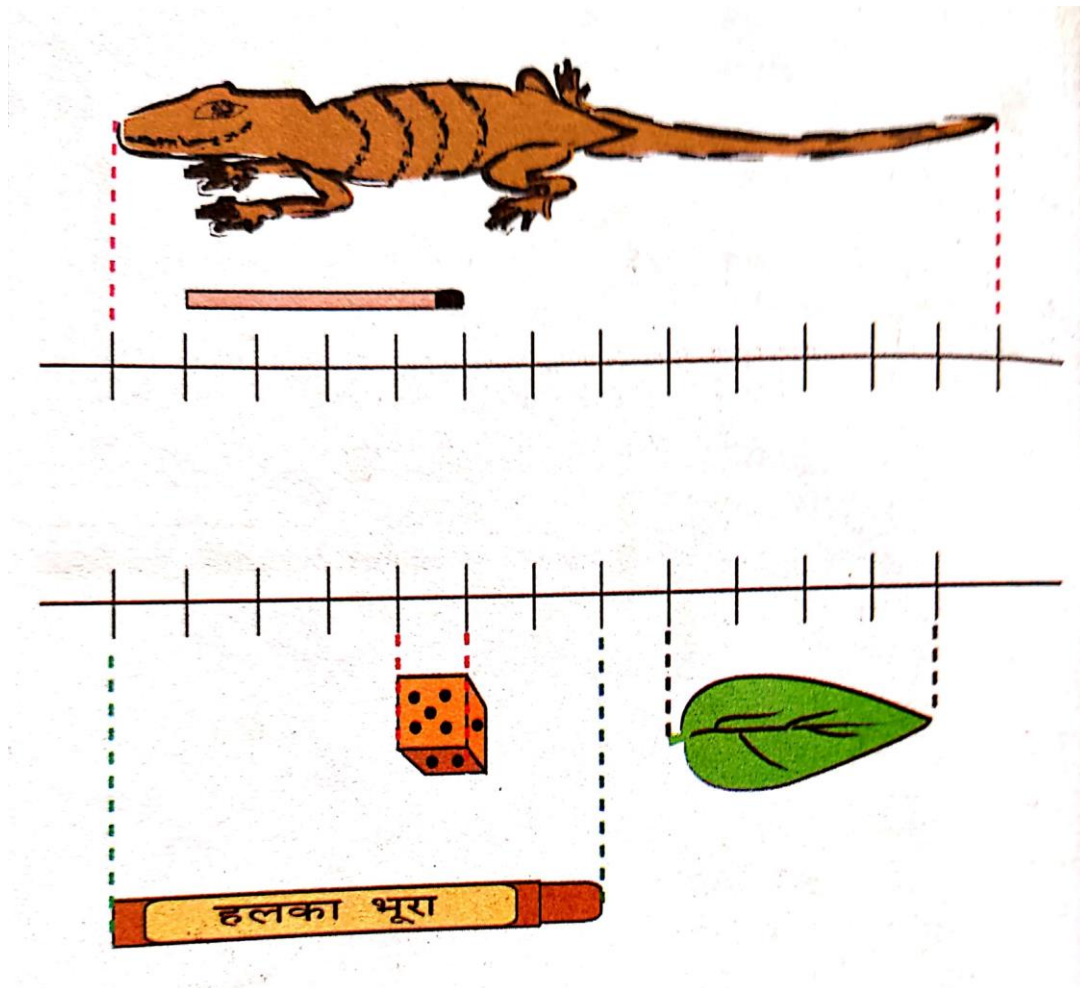


So, the farmer measures his arm with the rope and Lali gives him 7 times that much rope.

Measure your arm and your mother's arm. What is the difference?



Q. How much is a centimetre(cm)?



The matchstick is 4 centimetres long.

The die is 1 centimetre from every side.

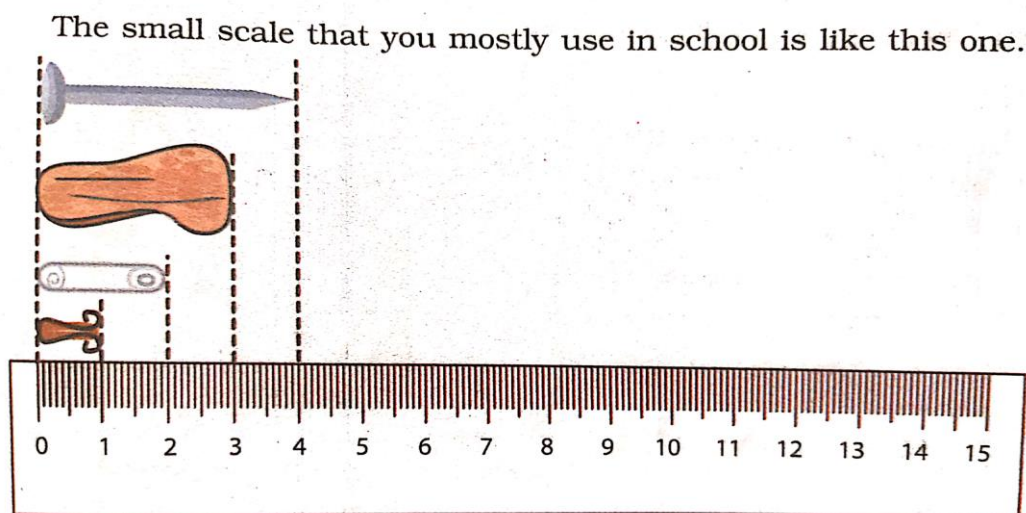
The lizard is 13 centimetres long.

The leaf is 4 centimetres long.

The wax colour is 7centimetres long.

Now look at the scale that you find in a geometry box. How many centimetres does it have? 15

The small scale that you mostly use in school is this one.



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

***Solution:*** Yes, it is easier to start measuring things from the zero mark.

The length of the nail is 4cm.

The length of the pebble is --- 3cm.

The length of the safety pin is--- 2cm

The length of the paper clip is--- 1cm.

**\* *what are the little lines on the scale used for?***

Ans: The little lines on the scale is used to measure 0.1cm

**\* Look for the things:**

1. That are about 10 centimeters long:

Ans: Colour pencils are about 10cm long.

2. Between 10 and 20 centimeter long:

Ans: note books are 10 to 20 centimeter long

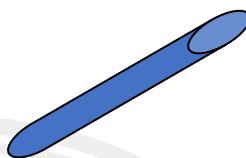
3. Less than 1 centimeter long:

Ans: Ants are less than 10 cm long.


Draw some of them here:



Notebook



pencil

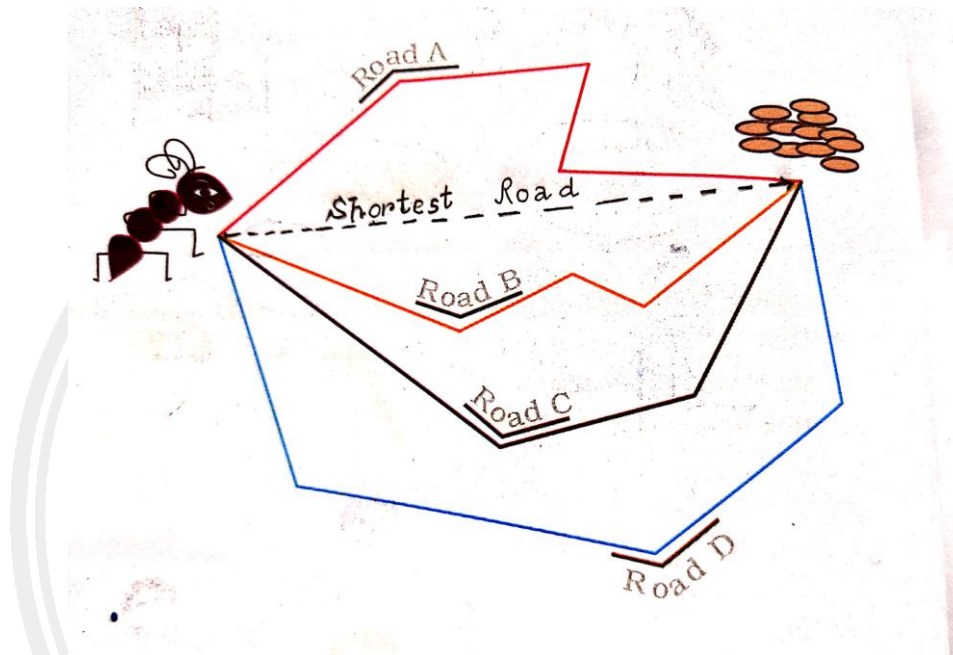
	My measurement	My friend measurement
nose	<u>4</u> centimetres	<u>5</u> centimetres
Around the wrist	<u>63</u> centimetres	<u>64</u> centimetres
Around the head	<u>51</u> centimetres	<u>50</u> centimetres
ear	<u>7</u> centimetres	<u>7</u> centimetres
Hand (tip to middle finger to wrist)	<u>15</u> centimetres	<u>16</u> centimetres

**Compare your measurement with your friends:**

- ✧ Who has the biggest head and who has the smallest head? My friend, my head.
- ✧ Who has the longest hand (from middle finger to wrist)? My friend.
- ✧ Which is longer? Your ear or your nose? Ear.
- ✧ Is any of your nails more than 1 centimetre long? No.

## *Gibli and the grains*

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 this? What is the length of the road?

Ans: Yes, the length of the road is 11 centimetres.



## **GUESS AND CHECK:**

### **Activity:**

**# 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 the table		
Width of the table		
Width of the door		
Length of the bed		
Width of the bed		
Length of window		
Length of the door		

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 small scale.

Name	Taller/shorter/equal to 1 metre	How many centimetres more or less than a metre
Shambhu	Taller	4 centimetres
Lemba	Taller	2 centimetres
Linthoi	Equal	
Boicha	Shorter	2 centimetres
Raju	Taller	5 centimetres

### Centimetres or Meters?

*Q. Which of these will be in centimetres and which will be in meters?*

Solution:

*Things that are measured in centimetres-----*

1. Width of a computer screen.
2. Height of 1year old child
3. Length of a banana.
4. Height of your mother.
5. Height of sugarcane.
6. Length of your father's arm.

*Things that are measured in metres -----*

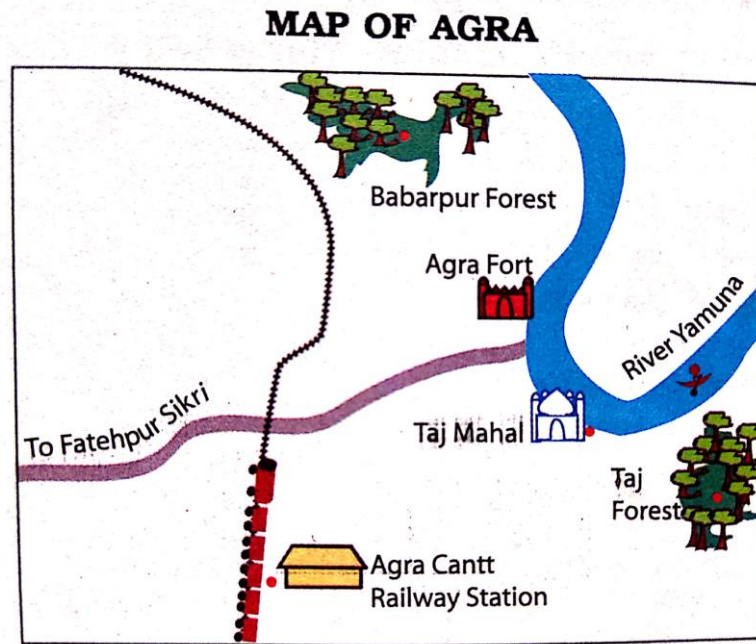
1. Length of Pagdi worn by Sikhs.
2. Waist of an elephant.
3. Depth of well.
4. Distance from school to home.

### **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 rickshaw. In the afternoon they take a bus to go to Fatehpur Sikri.



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Distance between places:

- Agra Cantt. Railway station to Taj Mahal: **5km**
- Taj Mahal to Agra Fort: **2km**

- Agra Fort to Fatehpur Sikri: **40km**

Now find from the map:

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

**Solution:** Fatehpur Sikri is farther from Agra Cantt railway station.

Which of these is nearer to the railway line-

- \* Babarpur Forest or Taj Forest.

**Solution:** Babarpur forest is nearer to railway line.

- \* Agra Fort or Taj Mahal?

**Solution:** Agra fort is nearer to the railway line.



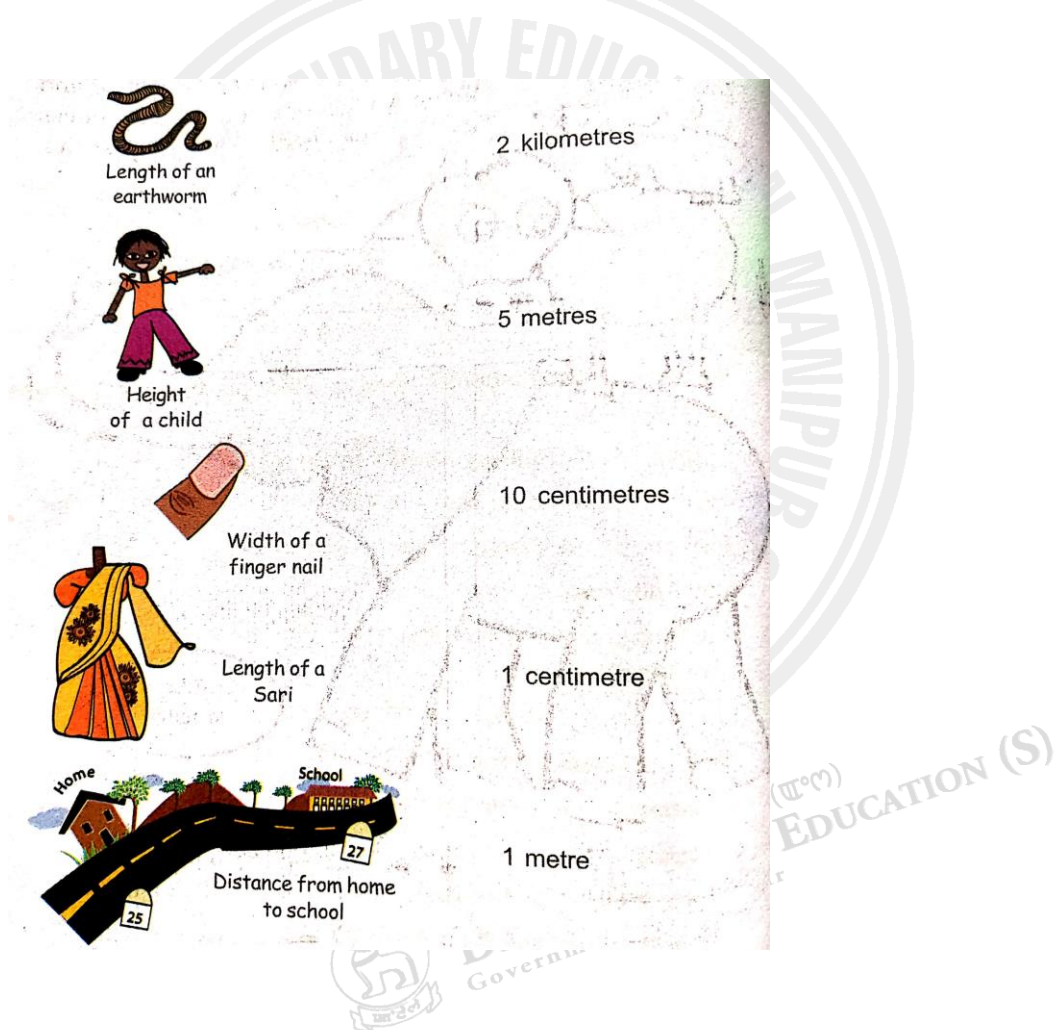
**Which is closer to the river Yamuna:**

**\*Taj mahal or the railway station.**

Solution: Taj mahal is closer to the river Yamuna.

**Match the correct length.**

Draw lines to match each picture with how long it can be.



Ans:

- i) Length of an earthworm ----- 10 cm
- ii) Height of a child ----- 1 metre
- iii) Width of a finger nail ----- 1 centimetre
- iv) Length of a Sari ----- 5 metres
- v) Distance from Home to School ----- 2 kilometres