

# KENDRIYA VIDYALAYA GANDHIGRAM, DINDIGUL

## NOTES

CLASS: III

TOPIC: LONG AND SHORT

SUB: MATHEMATICS

MONTH: AUGUST

### IMPORTANT POINTS:

1. Non standard units

i.e Handspan, cubit, fingerspan, Footspan

2. The most common units of length used are the kilometre (km), the **metre** (m), the centimetre (**cm**) and the millimetre (mm)

3. The standard unit of length is metre

4.  $1\text{m} = 100\text{ cm}$

5.  $1\text{m} = 1000\text{ mm}$

6. Half metre = 50 cm

7. Small objects like ruler pencil books are measured in (cm).

8. Medium size objects like table door refrigerator etc are measured in (m).

9. Long distance is measured in (km).

### I. FILL IN THE BLANKS:

1. Length of the table = 5 handspans and 20 little fingers

2. Length of the book = 2 handspans and 6 little fingers

3. Length of the box = 2 handspans and 4 little fingers

4. Length of your bag = 3 handspans and 7 little fingers

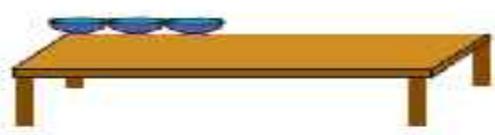
### II. HOW MANY?



How Many?



In how many steps will Dori 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?



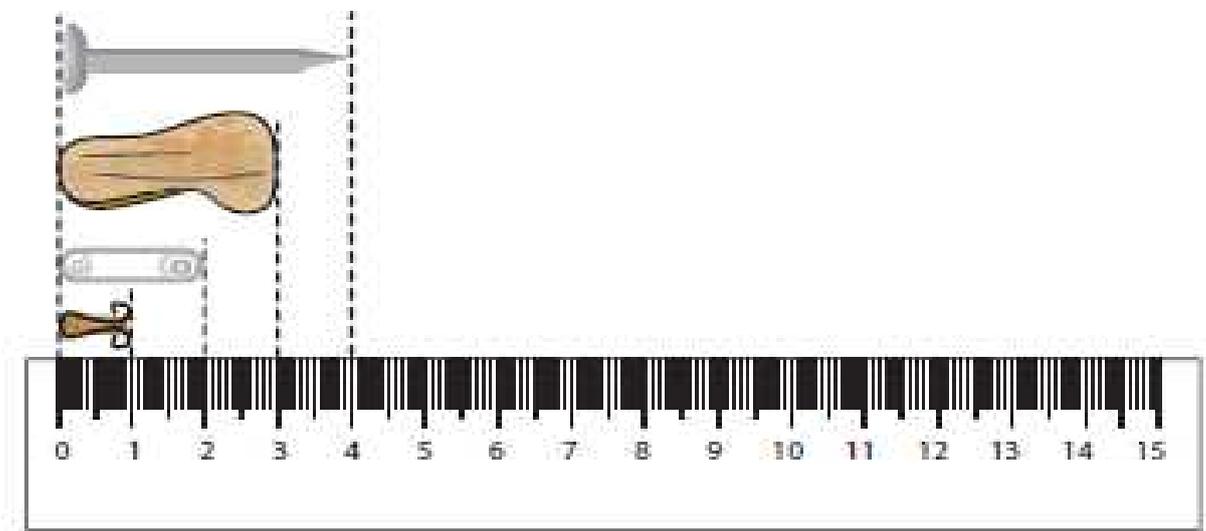
ANS:

1. 5 STEPS
2. 7 CUPS
3. 6 POTS
4. 4 SHIRTS

### III. HOW MUCH IA CENTIMETRE (CM) ?

How Much is a Centimetre (cm)?

1. The length of the Lizard is 13 cm
2. The length of the match stick is 4 cm
3. The length of the dice is 1 cm
4. The length of the leaf is 4 cm
5. The length of the crayon is 7 cm



6. The length of the nail is 4 cm
7. The length of the stone is 3 cm
8. The length of the safety pin is 2 cm
9. The length of the hook is 1 cm

IV. Tick the correct length

- ❖ Width of a computer screen (cm ✓ /m/mm)
- ❖ Length of a saree (cm/m ✓ /mm)
- ❖ Height of a 1-year old child (cm ✓ /m/mm)
- ❖ Length of a banana (cm ✓ /m/mm)
- ❖ Waist of an elephant (cm/m ✓ /mm)
- ❖ Height of a sugarcane (cm/m/mm ✓ )
- ❖ Depth of a well (cm/m ✓ /mm)
- ❖ Height of your mother (cm/m ✓ /mm)

V. FIND SOME THINGS THAT LOOK 1M LONG:

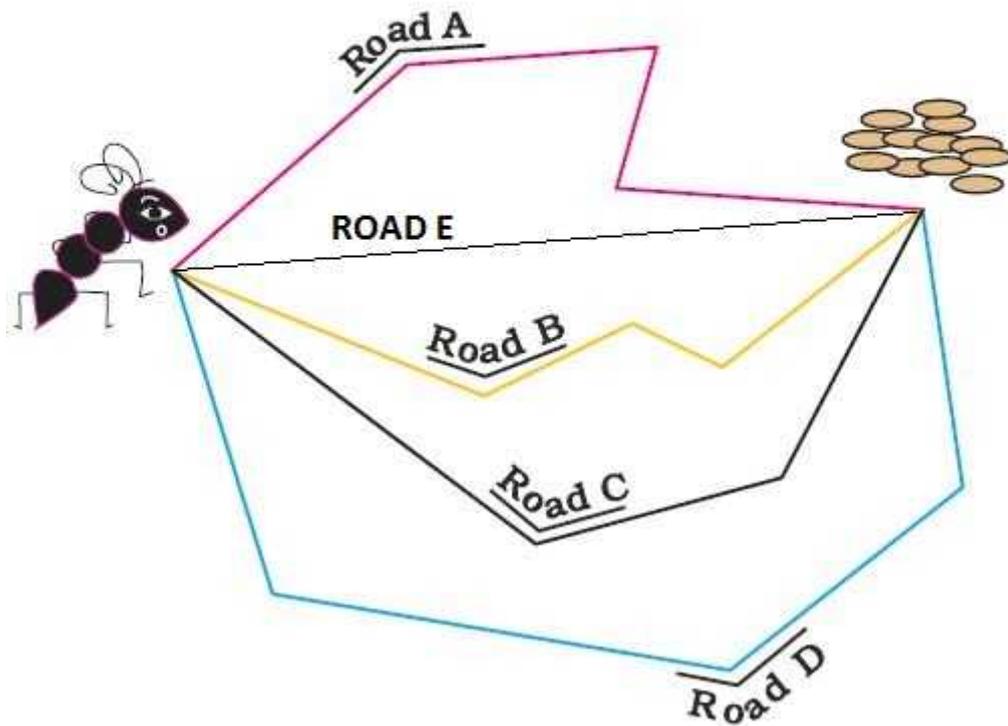
● Use your metre-rope to find which of these things are more or less than 1 metre.

Name of the thing	More than 1 metre	Less than 1 metre
Length of table	-	-
Width of table	-	-
Width of door	-	-
Length of door	-	-
	-	-
	-	-
	-	-

1. Length of Table = More than 1 m
2. Width of Table = Less than 1 m
3. Width of Door = Less than 1 m
4. Length of Door = More than 1 m

### 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?



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

**Ans.** Road E is the shortest road.

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

**Ans.** Yes, a road shorter to the given road can be drawn and its length will be 11.5 cm.

**12.**

	<b>My measurement</b>	<b>My friend's measurement</b>
<b>Nose</b>	<b>3 centimetres</b>	<b>3 centimetres</b>
<b>Around the wrist</b>	<b>12 centimetres</b>	<b>11 centimetres</b>
<b>Around the head</b>	<b>36 centimetres</b>	<b>35 centimetres</b>
<b>Ear</b>	<b>5 centimetres</b>	<b>5 centimetres</b>
<b>Hand</b>	<b>12 centimetres</b>	<b>11 centimetres</b>

**Compare your measurement with your friends.**

**(a) Who has the biggest head and who has the smallest head?**

Ans. Anshul, Dheeraj.

**(b) Who has the longest head (from middle finger wrist)?**

Ans. Amina.

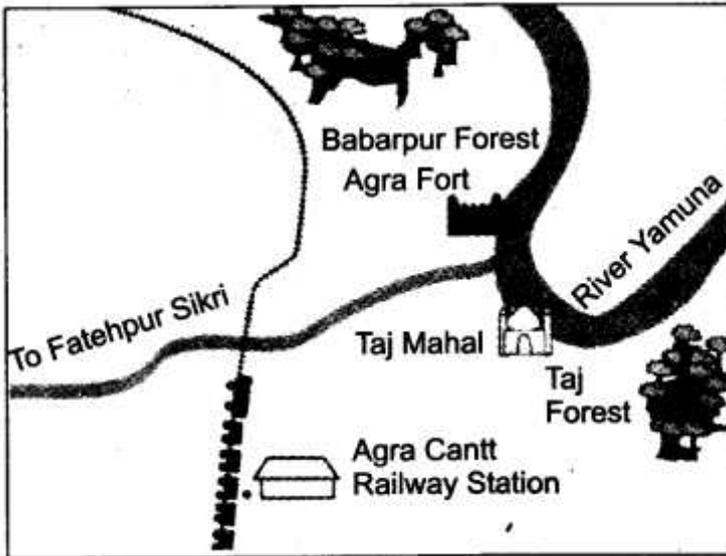
**(c) Which is longer? Your ear or your nose?**

Ans. Ear.

**(d) Is any of your nails more than 1 centimetre long?**

Ans. Yes.

## 5. Trip to Agra



1. 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?

Ans. Fatehpur Sikri is farther from Agra Cantt.

2. Which of these is nearer to the railway line?

- (i) Babarpur forest or Taj Forest?
- (ii) Agra Fort or Taj forest?

Ans. (i) Babarpur forest.

(ii) Agra Fort.

3. Which is nearer to the river Yamuna?

Ans. Taj Mahal.

## 6. The Long Tail Competition

1. The animals in the 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.

Ans. Monkey won the first prize and cow won the second prize. Monkey's tail is the longest and is about 1 metre long.

### Match the Correct Length

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

The image contains five illustrations on the left and five measurements on the right. Lines connect them as follows:

- Length of an earthworm** is connected to **10 centimetres**.
- Height of a child** is connected to **1 metre**.
- Width of a finger nail** is connected to **1 centimetre**.
- Length of a Sari** is connected to **5 metres**.
- Distance from home to school** is connected to **2 kilometres**.

The measurements on the right are: 2 kilometres, 5 metres, 10 centimetres, 1 centimetre, and 1 metre.