

**G3.67****ESTIMATING & COMPARING LENGTHS IN METRE & CM****Geometry & Measurement Concepts - NCERT Chapter 4: Long and Short**

Students will be able to estimate & compare lengths of objects in cms & metres (Concrete & pictorial)

40- 50 min

PRE REQUISITES:

G3.65 Know how to measure length/ breadth/height in cm

G3.66 Know to measure in metres

TLM

None

MISCONCEPTIONS

Students might think that measuring the same objects using different scales changes the length of the object

KEY VOCABULARY

None

PLAY

Ordering objects according to their length & estimating length in meters & centimeters

- Divide the students in groups of 4
- Ask students to observe the classroom & arrange any 8 objects in the correct order of their size
- Help students arrange the objects & ask each group to name the biggest object & the smallest object in their collection

QUESTION

How long do you think is the longest object? Is it more than 50 centimeters?

QUESTION

How small do you think is the smallest object? Is it less than a centimeter?

PROCESS

About 5 cm



About 10 cm



A few metres



A few centimetres



Estimating lengths & distances

- Tell estimating & comparing the length of objects is useful in daily lives. Eg. Buying a bed shorter than room so it fits
- Similarly, objects in the pencil box must be smaller than the length of the pencil box
- Take a sharpener, a small comb, & a pencil box. Tell a sharpener looks less than 5 cm long
- A pencil box between 10-20 cm, & a comb look between 10 metre - 20 metre

- Measure all objects & write their measurements on the blackboard. Arrange the measurements in increasing order
- Tell the students the smallest & the biggest measurement
- Tell students that they can similarly compare distances in meters or centimeters. Explain distance covered in one step
- A hare covers more than a meter distance but a tortoise covers much less than a meter in each step

PRACTICE

more than 1 metr



Less than 10 cm

Draw the question on the black board & ask the students to solve it

- Help the students solve question 2. Ask the students to estimate the lengths of the following



- Help the students solve question 4 from the worksheet. Ask the students to use a ruler to measure the distance of the horse, the pig, & the flower from the house

**QUESTION**

Which animal is closer to the house?



G3.67 | ESTIMATE AND COMPARE LENGTH

WORKSHEET: GEOMETRY & MEASUREMENT CONCEPTS - NCERT CHAPTER 4: LONG AND SHORT

- ① SOLVED EXAMPLE : How long is the object?
Tick the correct box to answer

S. No.	Object	Less than 10 cm	More than 10 cm	More than 1 metre
1.		☒ 	☐	☐

- ② How long is the object . Tick the correct box to answer

S. No.	Object	Less than 10 cm	More than 10 cm	More than 1 metre
1.		☐	☐	☐
2.		☐	☐	☐
3.		☐	☐	☐
4.		☐	☐	☐

- ③ Estimate the lengths of the following

- a.  _____ metres
- b.  _____centimetres
- c.  _____centimeters

- ④ Estimate & write the length of each object & compare lengths using > or < signs

S.No.	Object 1		Object 2
1.	Length of 		Bredth of 
2.	Length of 		Bredth of 

- ⑤ Fill in the blanks

- a.  > _____ metres
- b.  > _____centimetres
- c.  > _____centimetres

- ⑥ Measure the distance of the horse, the pig & the flower from the house & tell which one is closest to the house



- ⑦ In the picture shown in Q6. which is closer to the tree, the flower or the sun?



Measure the length from your elbow to your wrist.____

Measure the length from your ankle to your knee____

Which is longer?