

Students will be able to use a ruler to measure the length of familiar objects in Centimetre (cm)

🕒 40- 50 min

⏪ PRE REQUISITES:

G2.79 Know how to measure lengths using non-standard units

✓ TLM



1 Scale
20 Paper strips

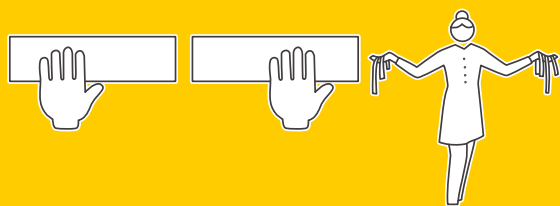
! MISCONCEPTIONS

Students might have a misconception that they should align one end of the object to be measured with 1 on the cm scale

🎯 KEY VOCABULARY

Centimeter

PLAY



Measurement with non standard units is not consistent

- Measure and cut a 10 finger long piece of paper. Tell the students that it is 10 fingers long
- Call a student & ask her to measure & cut 10 fingers long pieces of paper
- Call another student to measure & cut 10 fingers long piece of paper
- Place the three strips side by side & point out that the three are not the same in length

? QUESTION

How is it that we all measured 10 fingers-long pieces of papers but the sizes of paper strips are not the same

PROCESS



Centimetre scale

Measuring with a centimeter scale

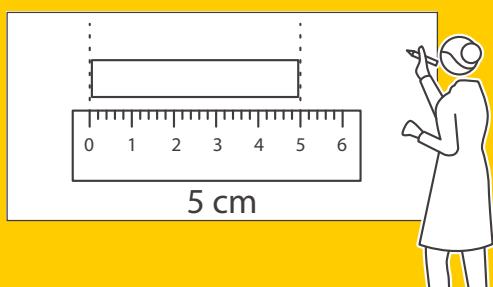
Measuring objects in Centimetre scale

- Tell the students that rulers are used to avoid differences in measurement
- Show a ruler & tell the students that each ruler has some markings. Point to the cm marks
- Tell that the length between each marking is called one cm
- Tell that irrespective of how a ruler looks or where its made, all have the marking at same length

- Emphasize that 1 cm line drawn using your ruler would be the same as a 1 cm line drawn using anyone else's ruler
- Tell students that the ruler can be used to measure many everyday objects. Demonstrate measuring chalk using a cm ruler
- Place one end of the ruler at 0 & point to the cm marking closest to the other end of the chalk & tell the length in cm

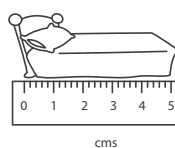
👉 **TEACHER'S NOTE:** Introducing millimeters can be avoided. Tell them to note measurements to nearest cm

PRACTICE

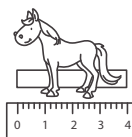


Write the question on the black board & ask the students to solve

- Help the students solve question 2 from the worksheet. Ask the students to look at the ruler scale & images in the below & write correct measurements in cm:



_____cms



_____cms

- Emphasize that the students must place the ruler right next to the image & align one end of the image with the first marking on the ruler. Explain that they must not align the object with "1" on the ruler

- Help the students solve question 3 from the worksheet. Ask the students to measure the images shown below with cm-scale ruler



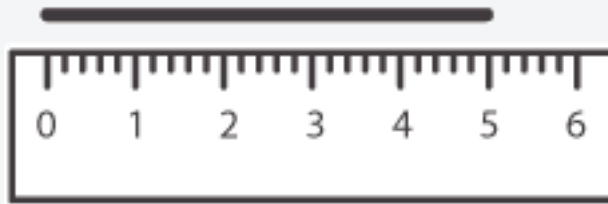
- Encourage the students to report their answer as 5cm rather than 5



G3.65 | MEASURE CENTIMETRE WITH A HELP OF RULER

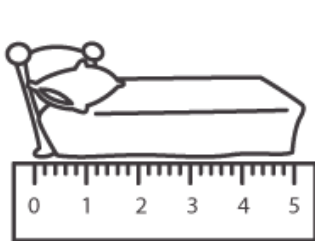
WORKSHEET: GEOMETRY & MEASUREMENT CONCEPTS - NCERT CHAPTER 4: LONG AND SHORT

- ① SOLVED EXAMPLE : Measure the lines using a cm ruler



Ans = 5 cm 

- ② Look at the ruler scale and images given below & write the correct measurements in cm



___cms



___cms

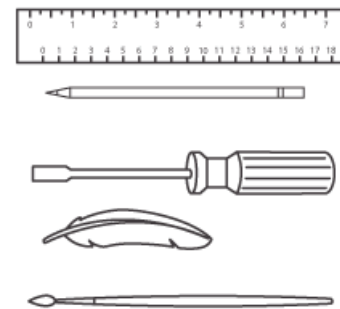
- ③ Align your ruler on the dotted line & find out the length of these objects



- ④ Measure these objects



- ⑤ Which of these objects have the same length ? Tick them



An eraser is about 4 cm. Measure other objects in your bag & write 2 more objects that are less than 10cm long