

# To be able to measure length using non-standard units

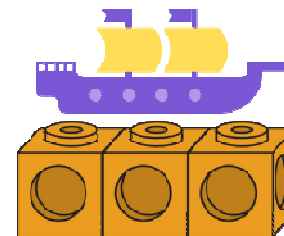
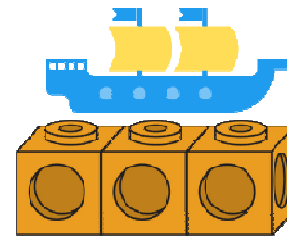
Success criteria:

- ✓ I can use a series of equal non-standard units, like cubes, hands and straws, to measure length and height
- ✓ I can explain my reasoning

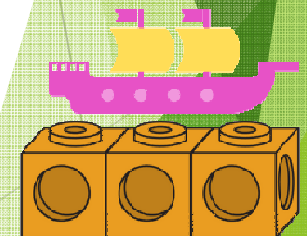
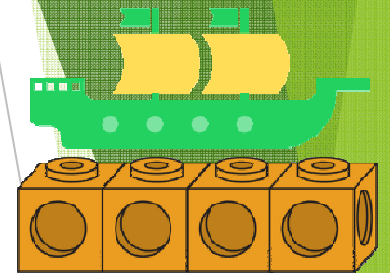
# To be able to measure length using non-standard units

Starter:

Which one is the odd one out?



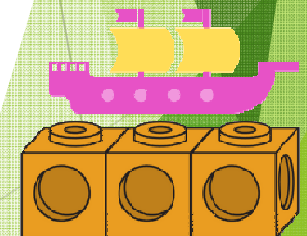
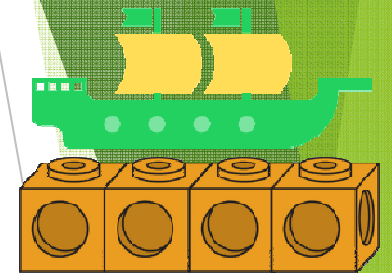
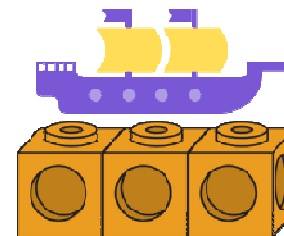
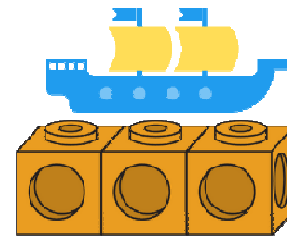
How do you know?.



# To be able to measure length using non-standard units

Starter:

Which one is the odd one out?

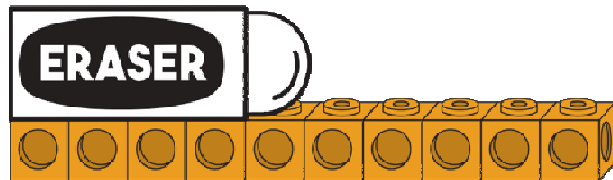


The green boat one is, because the other boats are three cubes long. The green boat is four cubes long.

## To be able to compare lengths and heights

Talking Time:

Referring to the picture, fill in the blank within the sentence below.

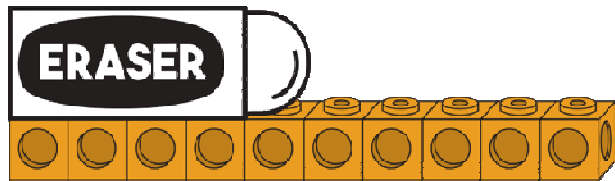


The eraser is \_\_ cubes long.

## To be able to compare lengths and heights

Talking Time:

Referring to the picture, fill in the blank within the sentence below.



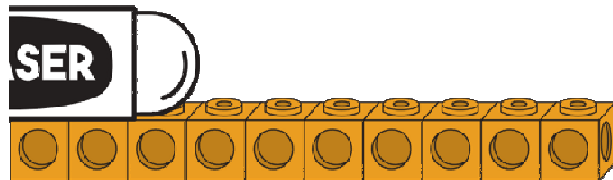
The eraser is 5 cubes long.



## To be able to compare lengths and heights

Talking Time:

Referring to the image, fill in the blank within the sentence below.

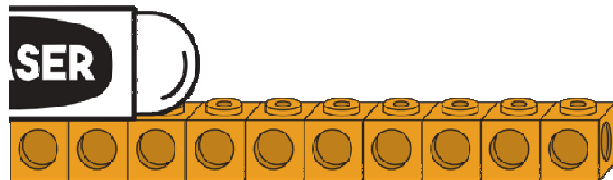


The eraser is \_\_ cubes long.

## To be able to compare lengths and heights

Talking Time:

Referring to the image, fill in the blank within the sentence below.

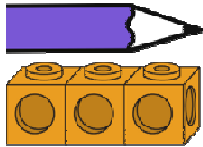


The eraser is 3 cubes long.

## To be able to compare lengths and heights

Talking Time:

Referring to the picture, fill in the blank within the sentence below.



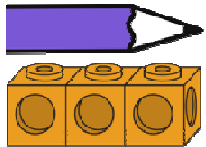
The pencil is \_\_ cubes long.



## To be able to compare lengths and heights

Talking Time:

Referring to the image, fill in the blank within the sentence below.

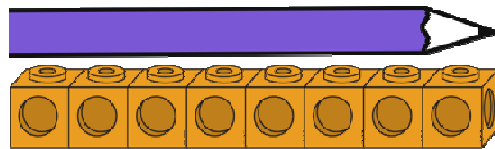


The pencil is 3 cubes long.

## To be able to compare lengths and heights

Talking Time:

Referring to the image, fill in the blank within the sentence below.

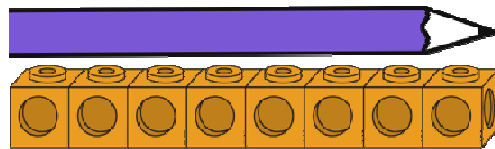


The pencil is \_\_ cubes long.

## To be able to compare lengths and heights

Talking Time:

Referring to the image, fill in the blank within the sentence below.

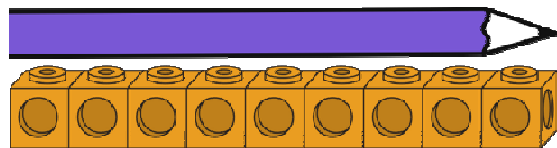
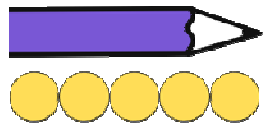
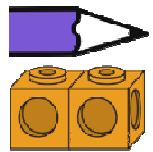


The pencil is 8 cubes long.

## To be able to compare lengths and heights

### Activity 1:

Referring to the images below, fill in the blanks within the sentences below.



The pencil is \_\_ cubes long.

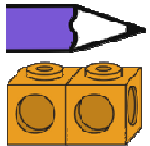
The pencil is \_\_ counters long.

The pencil is \_\_ cubes long.

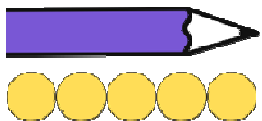
## To be able to compare lengths and heights

### Activity 1:

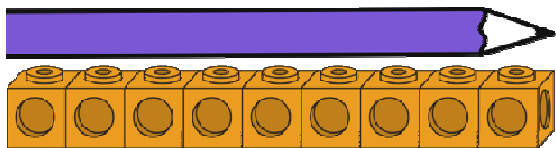
Referring to the images below, fill in the blanks within the sentences below.



The pencil is **2** cubes long.



The pencil is **5** counters long.



The pencil is **9** cubes long.



## To be able to compare lengths and heights

Activity 2:

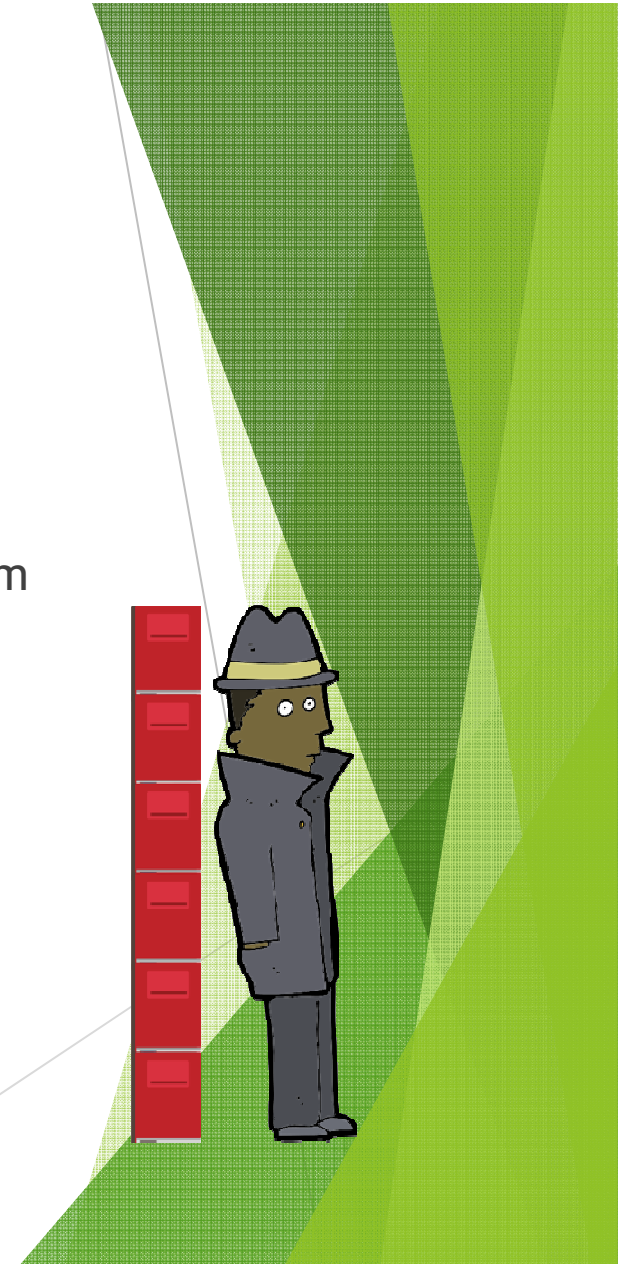
Mr Smith is six books tall.

Working with your grown up, choose different pieces of equipment from your home and measure your partner's height.

Keep a record of your measurements.

Mr Smith is six books tall.

*Is it easier to measure them lying down or standing up?*



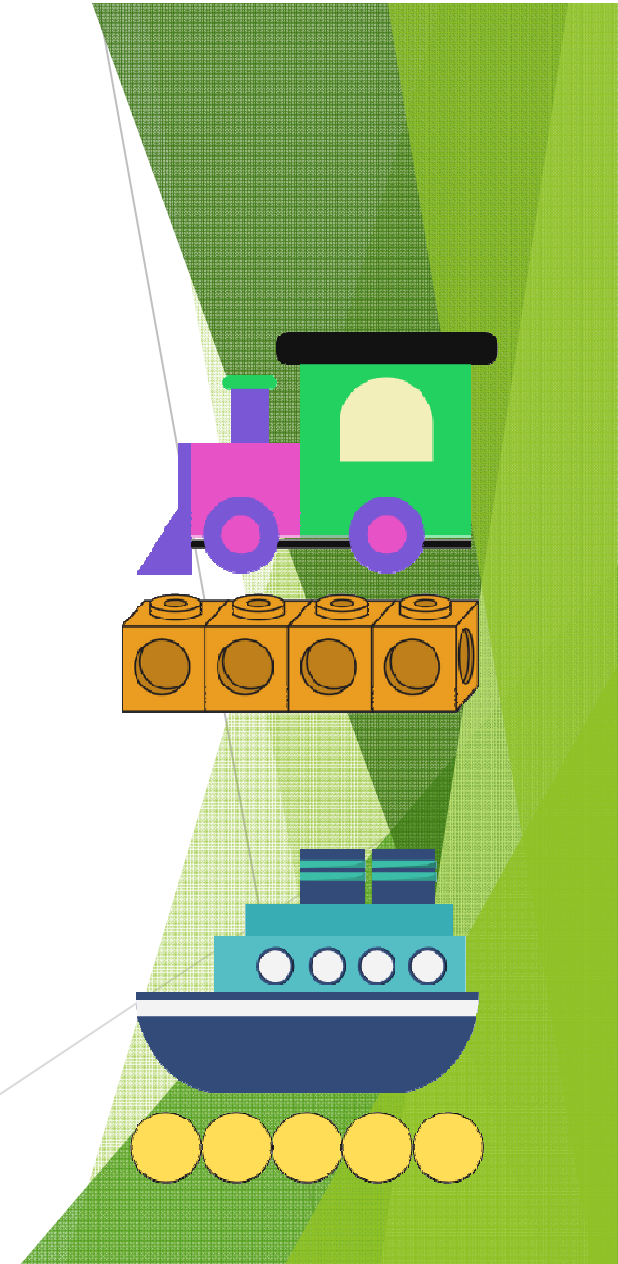
## To be able to compare lengths and heights

Activity 4:

James says, “The toys are different lengths.”

Do you agree?

Explain your answer.



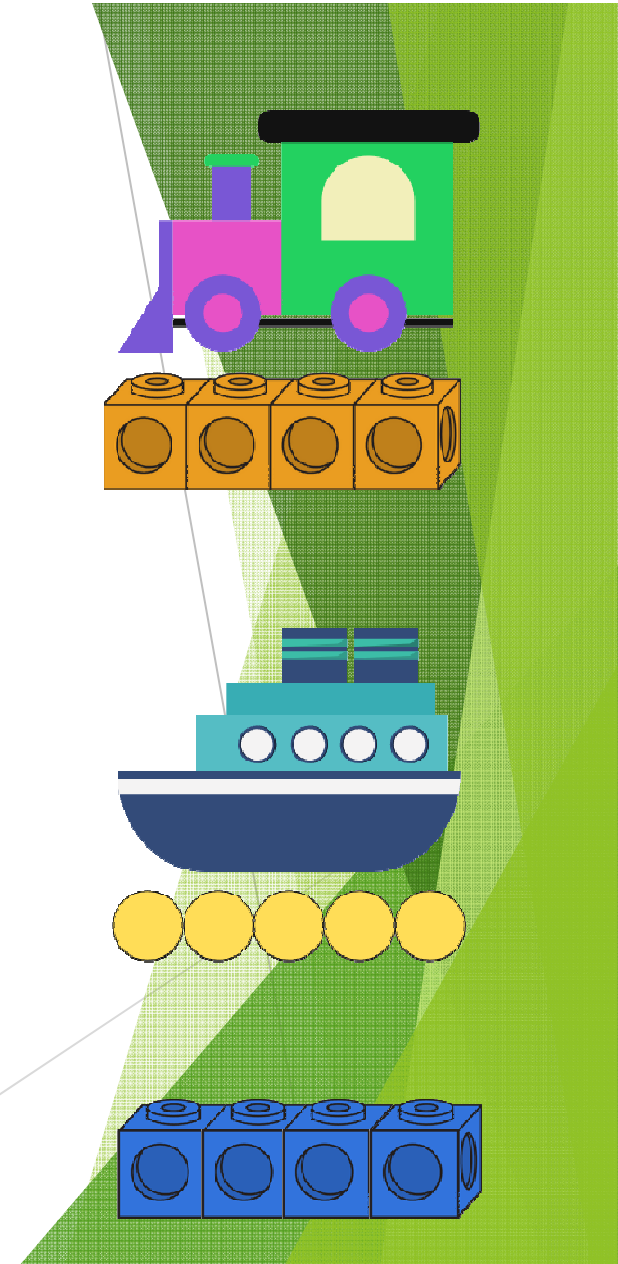
## To be able to compare lengths and heights

Activity 4:

James says, “The toys are different lengths.”

No, I do not agree. They are the same length, but have been measured using different pieces of equipment.

This type of measuring is called non standard. It make measuring very difficult and usually not accurate as the things we measure with need to be the same size

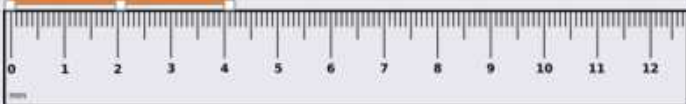


# Now we are going to have a go at using standard measures

- ✓ I can use my knowledge of a using series of equal non-standard units, like cubes, hands and straws, to measure length and height using cm units, and **measuring from zero on a ruler**

Starter:

Which one is the odd one out?



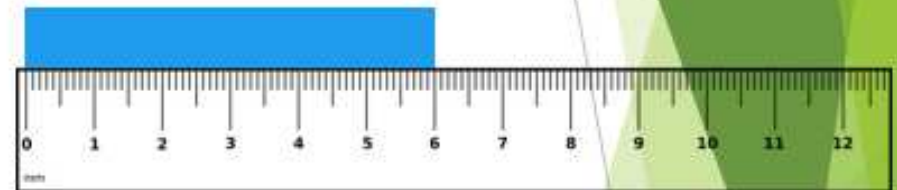
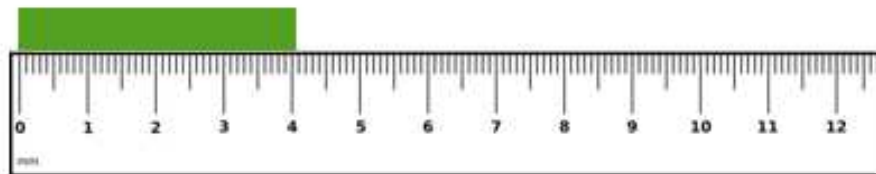
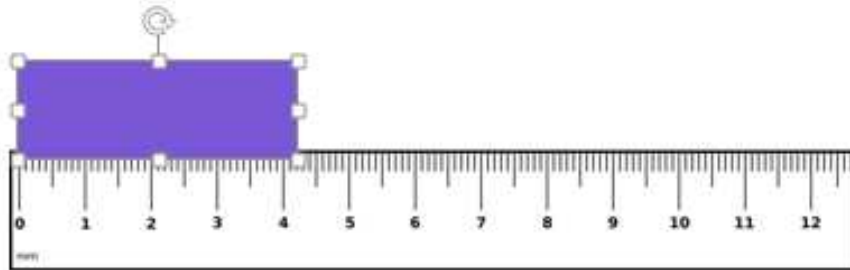
Explain your answer.



## To be able to measure length using standard units

Starter:

Which one doesn't belong?

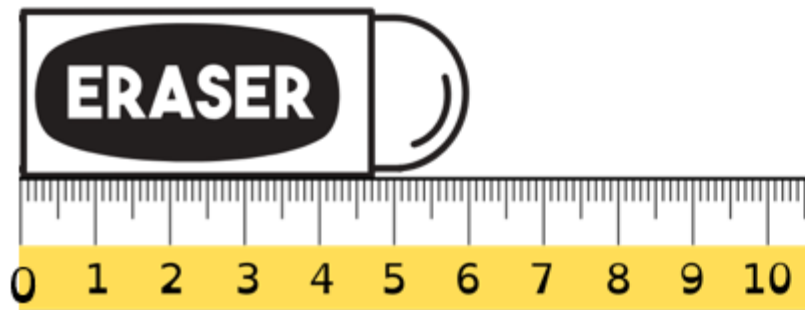


The blue rectangle doesn't belong as its width is 6 cm long. Whereas, the other rectangles each have widths of 4 cm.

To be able to measure length using standard units

Talking Time:

How long is the eraser?



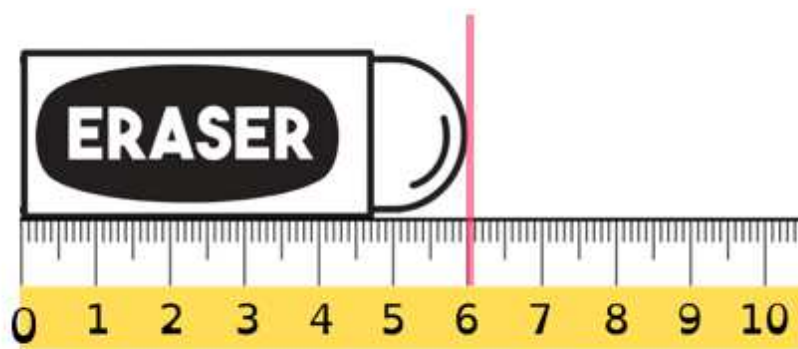
When you are measuring it is really important that the thing you are measuring is laid against the ruler starting at 0.

The eraser is 5 cm long.

To be able to measure length using standard units

Talking Time:

How long is the eraser?

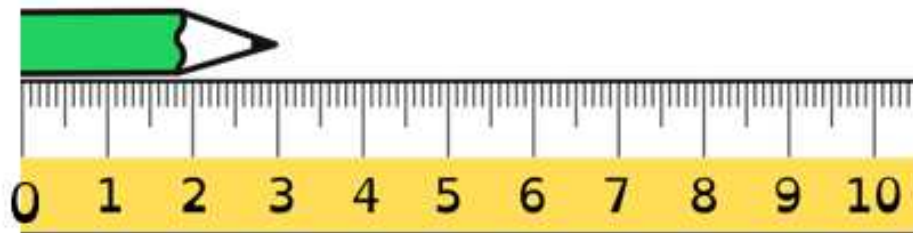


The eraser is 6 cm long.

To be able to measure length using standard units

Talking Time:

How long is the pencil?

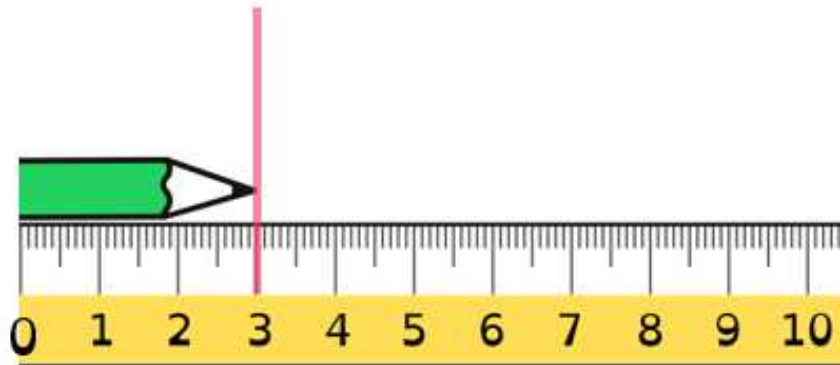


The pencil is   3   cm long.

To be able to measure length using standard units

Talking Time:

How long is the pencil?



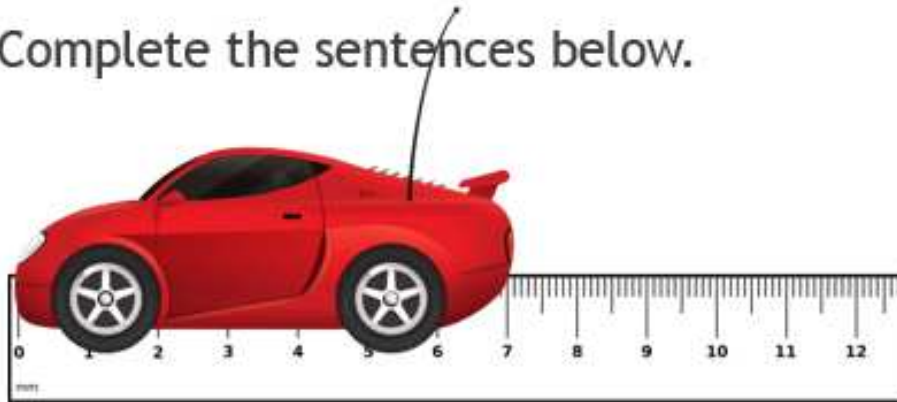
The pencil is 3 cm long.



To be able to measure length using standard units

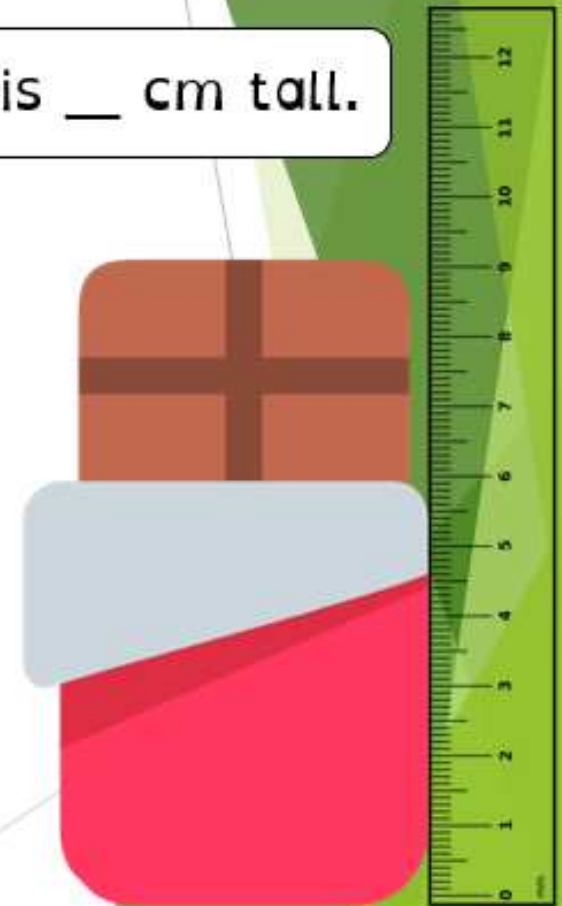
Activity 2:

Complete the sentences below.



The toy car is \_\_ cm long.

The chocolate bar is \_\_ cm tall.



## Activity 1

### Part 1:

Using a ruler and measuring from 0 cm, find and record:  
the length of three twigs or other natural objects from the  
garden



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