

Date:

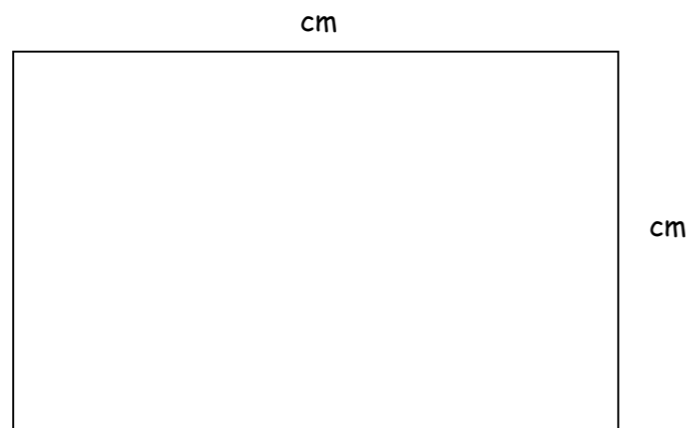
2.4 Scaled measurements

To convert scaled measurements to actual measurements



Scale: changing measurements so that something much bigger (or smaller) can be drawn accurately on paper

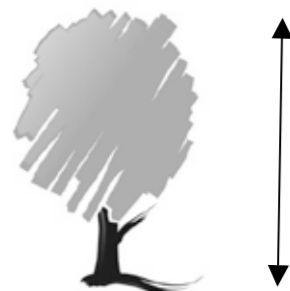
Consider the following drawing of a rectangle. Measure the length and the width of the shape in cm and mark on the shape.



This is actually a drawing of a room and the scale that has been used is 1 cm = 1 metre. What are the real measurements of the room?

Length in cm	Length in m	Width in cm	Width in m

A tree, drawn on a sheet of paper, measures 12 cm in height. If 1 cm on paper represents 2 m in real life, what is the actual height of the tree?



Convert each of the following scale measurements into their real measurements.

Item	Scaled measurement	Scale	Actual size
Boeing 747	Model length 5 m	1 m = 14 m	
Van	Model length 6 cm	1 cm = 1 m	
The Spire	Model height 20 cm	1 cm = 6 m	
O2 Dublin	Model height 25 cm	1 cm = 2 m	
Eiffel Tower	Model height 50 cm	1 cm = 1 m	
Statue of Liberty (not including base)	Model height 23 cm	1 cm = 2 m	



Which item in the list is the largest in real life? _____

List four situations where building or drawing something to scale would be needed. Explain your answers.

1. _____
2. _____
3. _____
4. _____

CONCLUSION: What I have done...

