

Measure and Make

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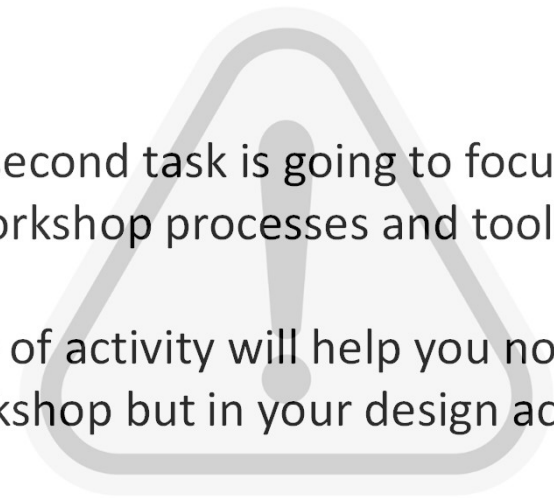
Measure

This weeks task is split into two sections; the first section focuses on improving your measuring and conversion skills which will help you in the workshop and on Graphics tasks.

Make

The second task is going to focus on workshop processes and tools.

This type of activity will help you not only in the workshop but in your design activities.

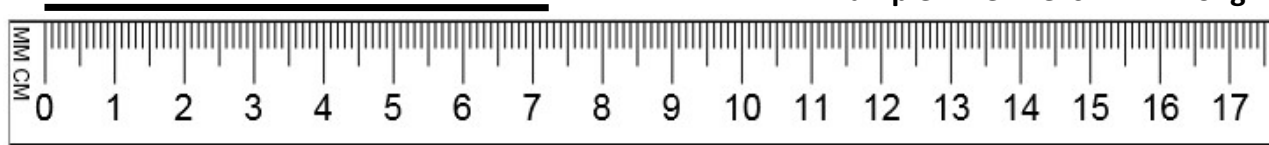


Task 1: Measure

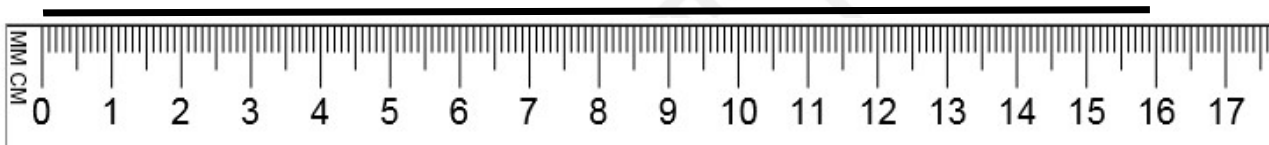
Use the rulers shown to measure the length of the lines given

Remember: MM are the small dashes in between the numbers on your ruler and 10 of them make up each cm.

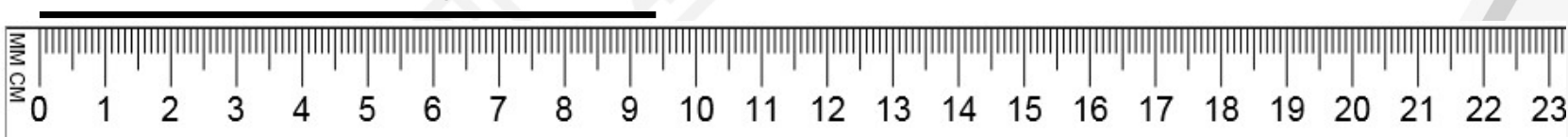
Example: The line is 72mm long



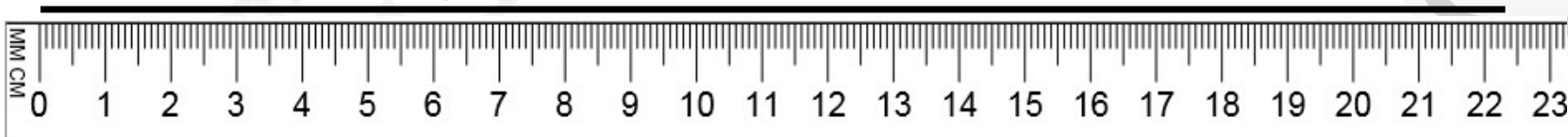
1: The line is _____ mm long



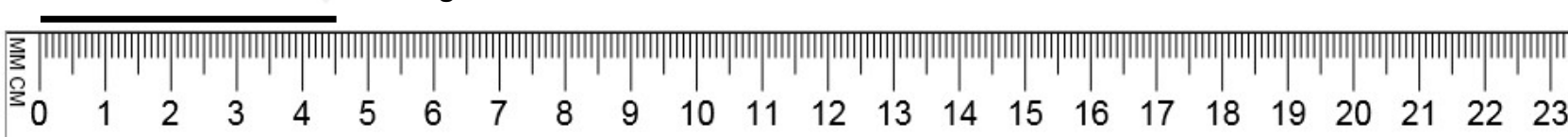
2: The line is _____ mm long



3: The line is _____ mm long

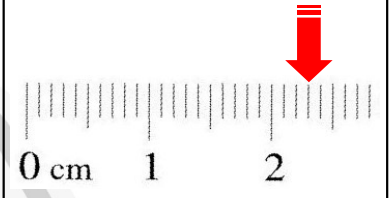


4: The line is _____ mm long



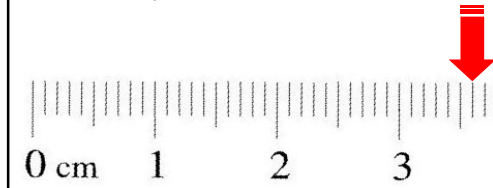
Example 1:

If you were looking for 23mm for example you would go to the 2cm and count 3 of the small dashes like shown below



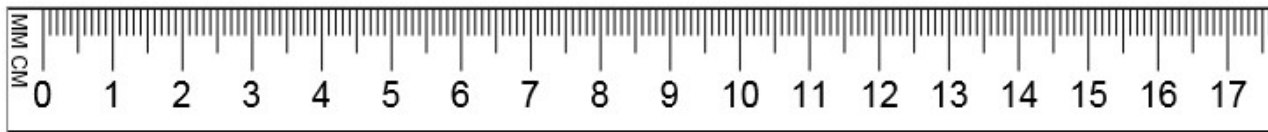
Example 2:

If you were trying to draw a line to 36mm you would go to 6 dashes past the 3 on your ruler as shown below

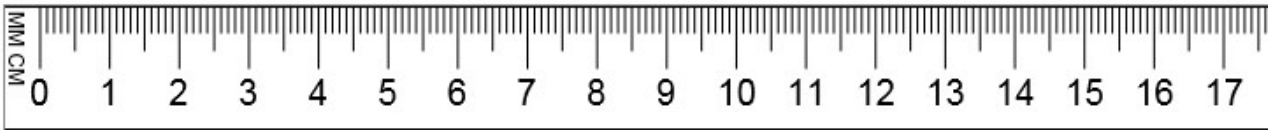


Task 1: Measure

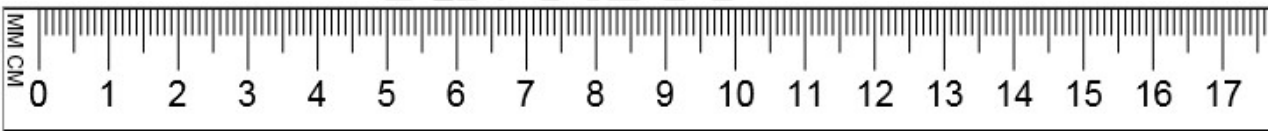
5: The line is _____ mm long



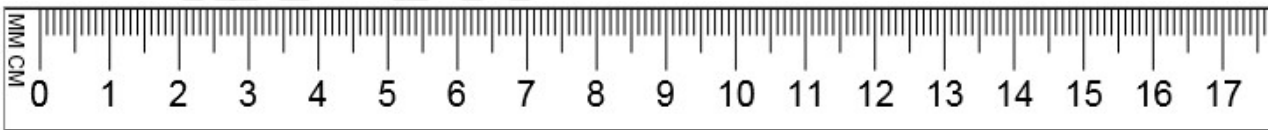
6: The line is _____ mm long



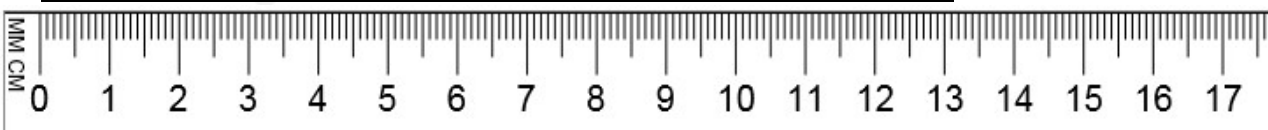
7: The line is _____ mm long



8: The line is _____ mm long



9: The line is _____ mm long



Now that we have had practice in measuring we must build our skills in converting from mm to cm and cm to m.

Look at the three values shown below and practice changing from cm to mm

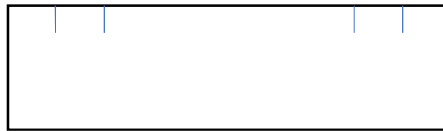
CM	MM
14	
	56
	950
7	
62	
	325
	865
5	
9.8	
3.7	

Task 2: Make

Shown below are the steps carried out to make the picture frame you have made in the workshop.
Can you name the correct tools up with each step?

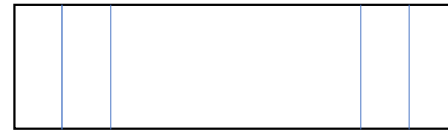
Step 1: Measure out the position of the two housing joints

Tool Used: _____



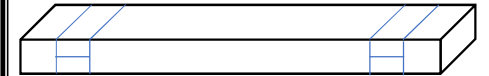
Step 2: Carry the lines all the way around the material to help guide our saw

Tool Used: _____



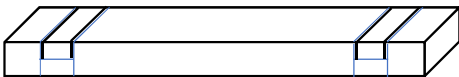
Step 3: Mark the depth of the joint on each side of the wood so we know when to stop sawing/chiselling

Tool Used: _____



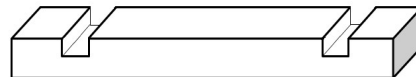
Step 4: Saw down the pencil marks stopping at the halfway line

Tool Used: _____



Step 5: Remove the waste wood between the saw marks

Tool Used: _____



Step 6: After drawing curves on either side of your base and side sections sand to shape

Machine Used: _____



Step 7: Join the two sides of the picture frame to the base

Tool Used: _____

Glue Used: _____

