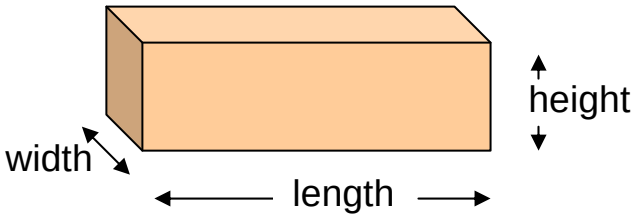
Name: _____ Date: _____

Jenga

To complete this worksheet you will require a

- tape measure or ruler
- pen or pencil

Jenga block



Use the tape measure to measure your Jenga block.

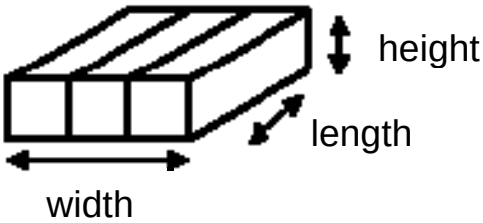
The length is _____mm

The width is _____mm

The height is _____mm

The mm (millimetres) are the smallest measure on a ruler.

Now place three blocks side by side as shown below



The base of the tower is made up of three blocks.

Together these three blocks make a <u>cuboid.</u>

The length of the cuboid is _____ mm

The width of the cuboid is _____ mm (3 x the width of the block)

The height of the cuboid is _____ mm

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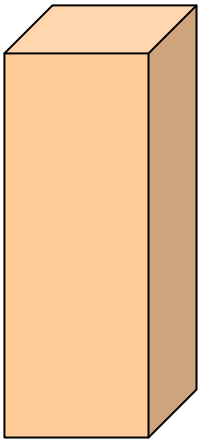
MSS1/E3.5 (E2.5) read, estimate, measure and compare length using common, (non standard) and standard units. MSS2/E2.2 describe the properties of common 2-D & 3-D shapes. N1/E3.5 Recall multiplication facts for example multiples of 2, 3, 4, 5, 10.

Name: _____ Date: _____

Jenga



When we build a tower with Jenga blocks there are 15 rows.

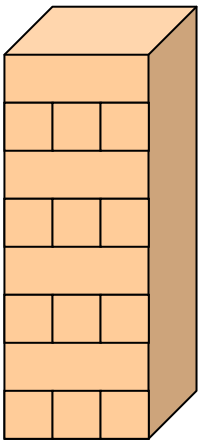
In each row there are 3 blocks.

How many blocks are there altogether? _____blocks.

The height of the tower is 15 times the height of one block.

What is the height of the tower? 15 x _____ mm

= _____ mm



Find a partner and see how many you can take away without it falling down.

Happy Building!

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Jenga

Extension ideas

- **MSS1/L1.7** Convert all measurements to cm or m.
- **MSS2/E3.2, MSS1/L1.8** Investigate / measure perimeter of one block / three blocks (put together as a cuboid).
- **MSS1/L1.9** Calculate surface area of one block / layer of the Jenga tower.
- **MSS1/L1.10** Calculate volume of one block / layer / entire tower.
- **MSS2/L1.1** Investigate tessellation using the blocks to create various designs for a 'parquet' floor.
- **MSS2/L1.2, MSS1/E2.5, MSS1/E3.5** Predict length of a 'wall' built with all the blocks (various designs / heights possible) then build it and measure it.

To obtain an editable Word version of this resource please send further ideas or resources to maggie@skilsworkshop.org THANK YOU

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