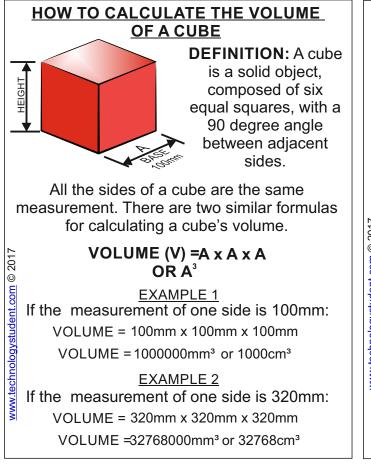
# **MATHEMATICS - VOLUMES - REVISION CARDS**

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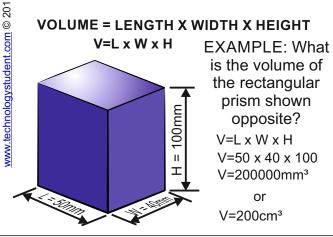
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#### HOW TO CALCULATE THE VOLUME OF A RECTANGULAR PRISM

**DEFINITION:** A rectangular prism is a solid object, composed of six rectangles, with a 90 degree angle between adjacent sides. Opposite sides of a rectangular prism are equal and parallel.

Unlike a cube, the area of the sides of a rectangular prism / cuboid are not the same, consequently the formula for calculating the volume is as follows:



### HOW TO CALCULATE THE VOLUME OF <u>A CYLINDER</u>

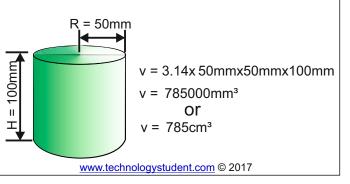
**DEFINITION:** A three dimensional geometrical shape, that has a circle at each end of a single curved surface.

### FIRST, AREA OF A CIRCLE = $\mathbf{T} \times \mathbf{R}^2$ CIRCUMFERENCE = 2 X $\mathbf{T} \times \mathbf{R}$

In order to calculate the volume of a cylinder, the height and radius of the circular top /bottom must be known. The following formula is used to calculate the volume.

## π (pi) = 3.14 V = $πr^2h$

volume (v) = pi x radius<sup>2</sup> x height



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