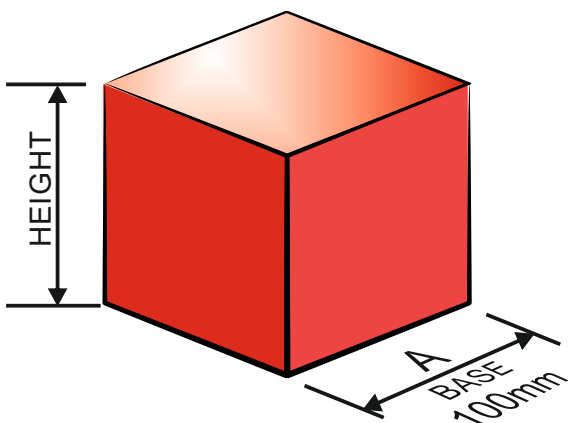


## 1 MATHEMATICS - VOLUME OF A CUBE

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_cubes1.pdf](http://www.technologystudent.com/pdf14/maths_cubes1.pdf)

**FORMULA** VOLUME (V) =  $A \times A \times A$  OR  $A^3$



What is the volume of the cube shown opposite?

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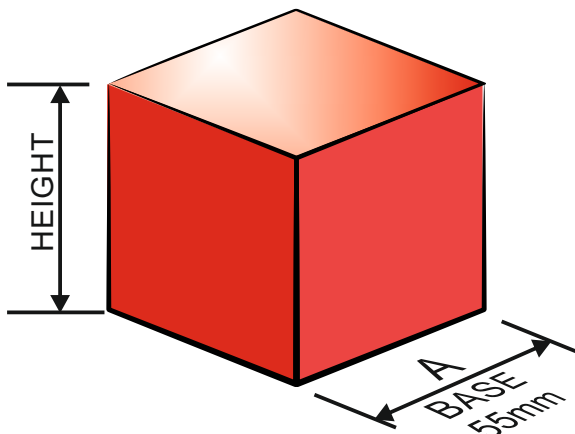


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## 2 MATHEMATICS - VOLUME OF A CUBE

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_cubes1.pdf](http://www.technologystudent.com/pdf14/maths_cubes1.pdf)

**FORMULA** VOLUME (V) =  $A \times A \times A$  OR  $A^3$



What is the volume of the cube shown opposite?

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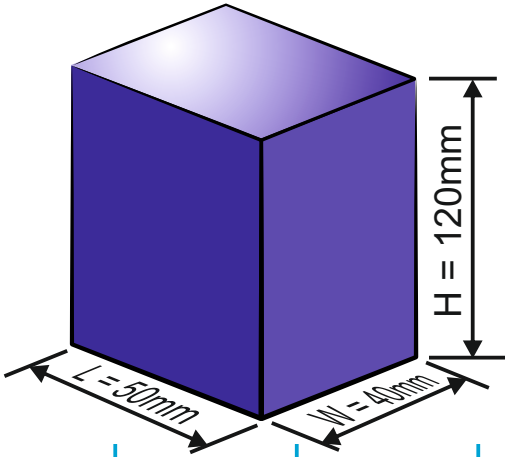


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3 MATHEMATICS - VOLUME OF A RECTANGULAR PRISM

HELPFUL LINK [http://www.technologystudent.com/pdf14/maths\\_rec\\_prism1.pdf](http://www.technologystudent.com/pdf14/maths_rec_prism1.pdf)

FORMULA  $V=L \times W \times H$



What is the volume of the rectangular prism shown opposite?

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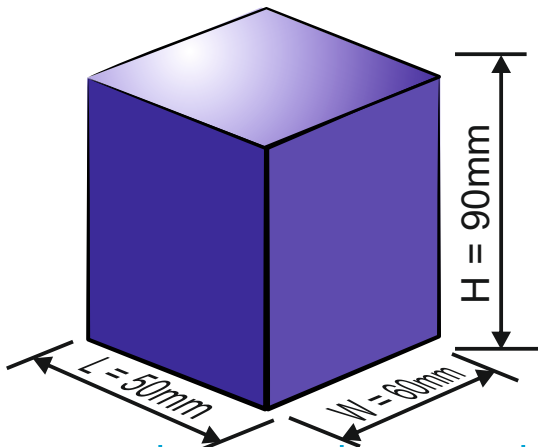
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4 MATHEMATICS - VOLUME OF A RECTANGULAR PRISM

HELPFUL LINK [http://www.technologystudent.com/pdf14/maths\\_rec\\_prism1.pdf](http://www.technologystudent.com/pdf14/maths_rec_prism1.pdf)

FORMULA  $V=L \times W \times H$



What is the volume of the rectangular prism shown opposite?

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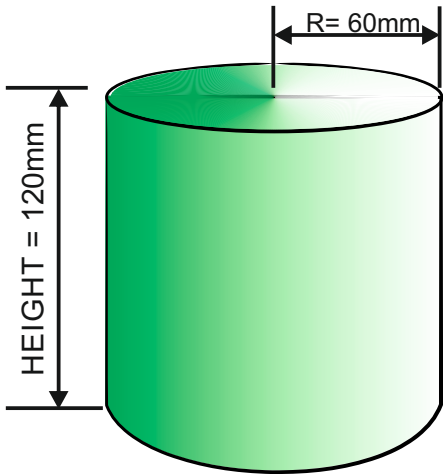
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5

**MATHEMATICS - VOLUME OF A CYLINDER**

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_cylinder1.pdf](http://www.technologystudent.com/pdf14/maths_cylinder1.pdf)

**FORMULA**  $V = \pi r^2 h$       $\pi$  (pi) = 3.14  
volume = pi x radius<sup>2</sup> x height



Calculate the volume of the cylinder seen opposite.

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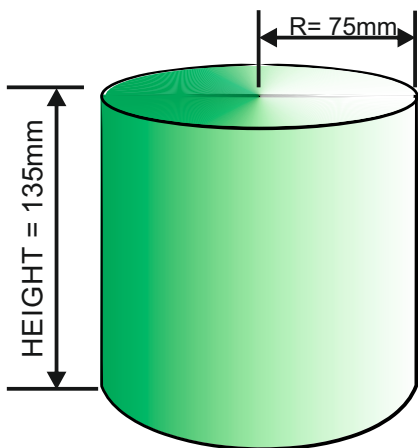
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6

**MATHEMATICS - VOLUME OF A CYLINDER**

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_cylinder1.pdf](http://www.technologystudent.com/pdf14/maths_cylinder1.pdf)

**FORMULA**  $V = \pi r^2 h$       $\pi$  (pi) = 3.14  
volume = pi x radius<sup>2</sup> x height



Calculate the volume of the cylinder seen opposite.

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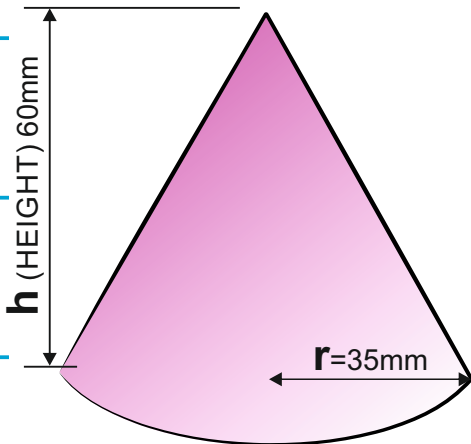
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7

## MATHEMATICS - VOLUME OF A CONE

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_cones1.pdf](http://www.technologystudent.com/pdf14/maths_cones1.pdf)

**FORMULA**  $v = \frac{1}{3} \pi r^2 h$  OR  $v = \frac{\pi r^2 h}{3}$   $\pi$  (pi) = 3.14



If the height (h) is 60mm and the radius is 35mm  
calculate the volume of the cone.

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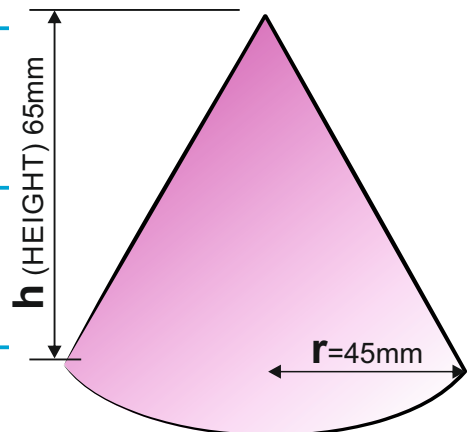
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8

## MATHEMATICS - VOLUME OF A CONE

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_cones1.pdf](http://www.technologystudent.com/pdf14/maths_cones1.pdf)

**FORMULA**  $v = \frac{1}{3} \pi r^2 h$  OR  $v = \frac{\pi r^2 h}{3}$   $\pi$  (pi) = 3.14



If the height (h) is 65mm and the radius is 45mm  
calculate the volume of the cone.

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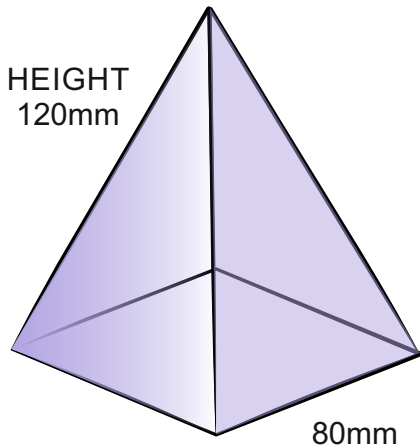


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## 9 : MATHEMATICS - VOLUME OF A REGULAR PYRAMID

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_pyramids1.pdf](http://www.technologystudent.com/pdf14/maths_pyramids1.pdf)

**FORMULA** Volume =  $\frac{1}{3}$  x Base x Height **OR**  $V = \frac{1}{3}$  x B x H



If the height (h) is 120mm and the length of one side of the base is 80mm. What is the volume?

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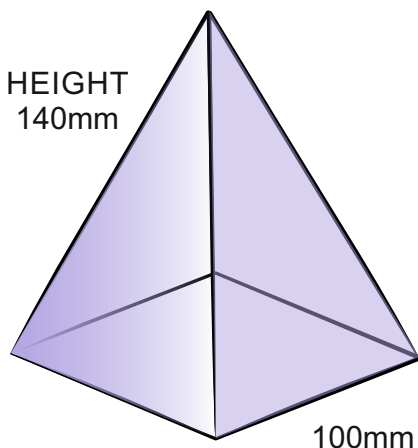


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## 10 : MATHEMATICS - VOLUME OF A REGULAR PYRAMID

**HELPFUL LINK** [http://www.technologystudent.com/pdf14/maths\\_pyramids1.pdf](http://www.technologystudent.com/pdf14/maths_pyramids1.pdf)

**FORMULA** Volume =  $\frac{1}{3}$  x Base x Height **OR**  $V = \frac{1}{3}$  x B x H



If the height (h) is 140mm and the length of one side of the base is 100mm. What is the volume?

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11

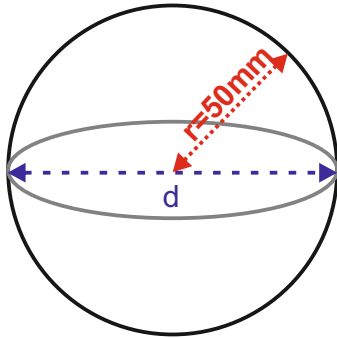
## MATHEMATICS - VOLUME OF A SPHERE

**HELPFUL LINK**

[http://www.technologystudent.com/pdf14/maths\\_sphere1.pdf](http://www.technologystudent.com/pdf14/maths_sphere1.pdf)

**FORMULA**

$$V = \frac{4}{3}\pi r^3 \quad \pi (\text{pi}) = 3.14$$



Calculate the volume of a sphere, 50mm radius.

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12

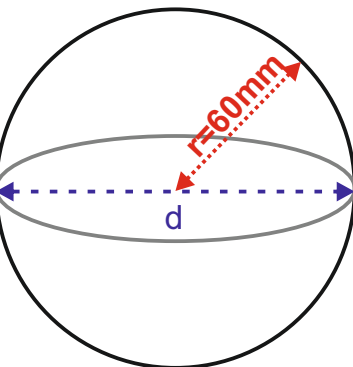
## MATHEMATICS - VOLUME OF A SPHERE

**HELPFUL LINK**

[http://www.technologystudent.com/pdf14/maths\\_sphere1.pdf](http://www.technologystudent.com/pdf14/maths_sphere1.pdf)

**FORMULA**

$$V = \frac{4}{3}\pi r^3 \quad \pi (\text{pi}) = 3.14$$



Calculate the volume of a sphere, 60mm radius.

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