

# Maths formula Sheet

## Mensuration

The branch of Mathematics that concerns with measurement of lengths, areas and volume of plane figure and solid figures is called Mensuration.

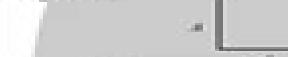
**Area:** The magnitude of a region occupied by a figure in a plane is called its area. Area is measured in  $m^2$ .

**Volume:** The magnitude of region occupied by solid in space is called its volume. Volume is measured in  $m^3$  (meter cube) or l (liters).

**Perimeter:** Total length of the boundary of a plane figure is called its perimeter. Perimeter of the circle is called circumference.

**Surface area:** The area of the surface of the solid figure is called its surface area.

### Area and Perimeter of Plane Figure

Name	Nomenclature	Perimeter	Area
Triangle	 $a, b, c$ are the side $h$ is altitude $s = \frac{a+b+c}{2}$	$a+b+c, 2s$	$\frac{1}{2} \times \text{base} \times \text{altitude}$ $\frac{1}{2} bh$
Rectangle	 $a$ is length $b$ is breadth	$2(a+b)$	length $\times$ breadth $ab$
Square	 $a$ is side	$4a$	$(\text{side})^2$ $a^2$
Parallelogram	 $a$ is side $b$ is side $h$ is distance between parallel sides of length $a$	$2(a+b)$	side $\times$ height $ah$
Rhombus	 $a$ is side $d_1, d_2$ are the diagonals	$4a$	$\frac{1}{2} \times \text{product of diagonal}$ $\frac{1}{2} d_1 d_2$
Trapezium	 $a, b$ are parallel sides $h$ is distance between them	Sum of all sides	$\frac{1}{2} \times \text{Sum of parallel side} \times \text{height}$ $\frac{1}{2} (a+b)h$

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web this chapter discusses the design of the overall system as well as some of the aspects of the control unit itself which were focused on in detail in chapter one ii acknowledgement iv table of contents v list of figures vi abbreviations viii chapter 1 introduction 1 1 1 motivation 2 1 2

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web a generator synchronization panel normally has the following significant features phase comparison meters with the use of these meters the operator may check the phase of the synchronizing

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web automatic synchronizing panel for gensets specialized electrical and industrial panels the panels play an important role giving the power generator installation the needed completeness automatic synchronizing panel for gensets

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