Area of Parallelogram

The **area** of a parallelogram is the region bounded by the parallelogram in a given twodimension space.

In the following figure, ABCD is a parallelogram where AB||DC and BC||AD If DL \perp AB, then DL



is the distance between the parallel lines DC and

AB.

Similarly, if DM \perp BC, then DM is the distance between

parallel lines AD and BC.

Thus, DL and DM are the altitudes on the corresponding bases AB and BC respectively.

To find the area of the parallelogram, multiply the base of the perpendicular by its height.

Area of Parallelogram = Base × Height

Area = (b × h) square units

Let us understand with an Example:

Example: If the base of a parallelogram is equal to 6 cm and the height is 3 cm, then find its area.

Solution: Given, the length of base= 6 cm and height = 3 cm

As per the formula, Area = $6 \times 3 = 18$ sq.cm