7th Standard- Maths

Perimeter and Area

The perimeter of a regular polygon = number of sides × length of one side

The perimeter of a square = $4 \times side$

Perimeter of rectangle = $2 \times (l + b)$

(where I and b denote the length and breadth respectively of the rectangle)

Area of a square = side × side

Area of a rectangle = $l \times b$

Triangles as Parts of Rectangles

The sum of the areas of the two triangles, into which a diagonal of a rectangle divides the rectangle, is the same as the area of the rectangle. Also, both the triangles are equal in area.



Generalising for Other Congruent Parts of Rectangles

If we divide a rectangle into two congruent parts so that the area of one part is equal to the area of the other part, then

area of each congruent part = 1/2 (the area of the rectangle)

Area of parallelogram = base × corresponding height (altitude)

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Conversion of Units

- 1cm =10 mm
- $1 \text{ cm}^2 = 100 \text{ mm}^2$
- $1 \text{ m}^2 = 100 \times 100 = 10,000 \text{ cm}^2$
- $1 \text{ km}^2 = 1000 \times 1000 = 1,000,000 \text{ m}^2$
- 1 hectare = 10,000 m^2





Perimeter of triangle = sum of all sides of triangle = a + b + c



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Area of square = side × side = $(side)^2$



Area of Rectangle = Length \times Breadth = l \times b



Area of a parallelogram = Base × Height



The distance around a circular region is known as its circumference.

Circumference of a circle = $\pi d = \pi(2r) = 2\pi r$. where d is diameter and r is the radius.



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