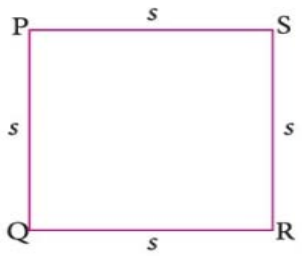
Perimeter of square , Rectangle and Regular Shapes

☞ Perimeter of a closed figure is the total lengths of its boundary.

Perimeter of Square

The perimeter of a square PQRS is the total lengths of all its equal sides. If the length of each side is s then,



Perimeter = PQ + QR + RS + SP = s + s + s + s = 4s

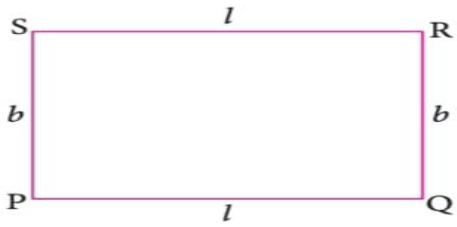
☞ Perimeter of Rectangle

The perimeter of a rectangle PQRS is the double of the sum of its two adjacent sides. If the length of its two adjacent sides are l and b, then,

Perimeter = PQ + QR + RS + SP

= l + b + l + b

= 2l + 2b = 2(l+b)



☞ Let us understand with some examples:

Example 1: Find the perimeter of a rectangular plot whose length is 25 m and breadth is 950 cm.

Solution: Length of the rectangle = 25m

Breadth of the rectangle = 950 cm = $\frac{950}{100}$m = 9.5 m

Perimeter of the rectangular plot = 2(length + breadth)

= 2 (l + b) = 2(25 + 9.5) = 2 × 34.5 = **69m**

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☞ **Example:** Find the cost of fencing a square park of side 250m at the rate of Rs. 20 per meter.

Solution: Side of the park = 250m

To calculate the cost of fencing, we require perimeter.

Perimeter of the square = 4 × one side = 4 × 250m = 1000 m

Now, the total cost of fencing the park = Rs.20 × 1000 = **Rs. 20000**