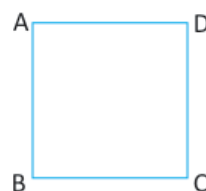
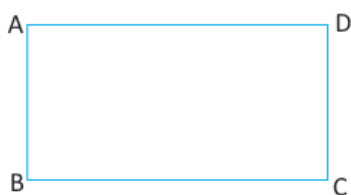


Meaning of Perimeter

Understanding Perimeter

- Perimeter is the total distance around the outside of a shape.
- It is found by adding up the lengths of all the sides of the shape.
- Perimeter is measured in units like cm, m, or mm depending on the size of the shape.
- For a rectangle or square, the perimeter can be calculated using simple formulas.
- The perimeter gives the length of the boundary of the shape.

Perimeter of square ABCD = $AB + BC + CD + DA$



Perimeter of rectangle ABCD = $AB + BC + CD + DA$

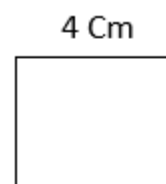
Key Points about Perimeter

- Perimeter is for 2D shapes only
- For regular shapes, all sides are equal in length
- For irregular shapes, add up the lengths of each side
- The perimeter helps in measuring fences, borders, and the boundary of any closed shape

Mixed Examples with Solutions

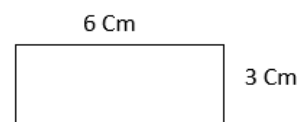
Example: Find the perimeter of a square with side length 4 cm

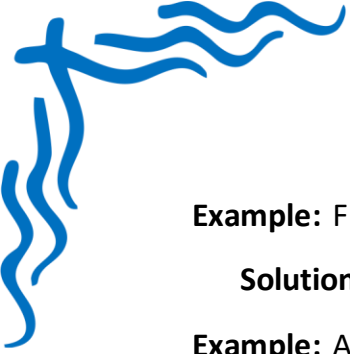
Solution: Perimeter = $4 \times \text{side} = 4 \times 4 = 16 \text{ cm}$



Example: Find the perimeter of a rectangle with length 6 cm and width 3 cm

Solution: Perimeter = $2 \times (\text{length} + \text{width})$
 $= 2 \times (6 + 3) = 2 \times 9 = 18 \text{ cm}$





Example: Find the perimeter of a triangle with sides 5 cm, 6 cm, and 7 cm

Solution: Perimeter = $5 + 6 + 7 = 18$ cm

Example: A garden is 10 m long and 5 m wide. What is the perimeter of the garden?

Solution: Perimeter = $2 \times (\text{length} + \text{width}) = 2 \times (10 + 5) = 2 \times 15 = 30$ m

Example: Find the perimeter of a regular pentagon with each side measuring 8 cm

Solution: Perimeter = $5 \times \text{side} = 5 \times 8 = 40$ cm

Summary Points

- Perimeter is the total distance around a shape.
- It is calculated by adding the lengths of all sides.
- For squares and rectangles, special formulas are used.
- The perimeter is important in finding the boundary of any shape.
- Practice helps in quickly calculating perimeters of different shapes.