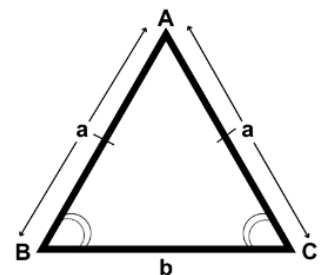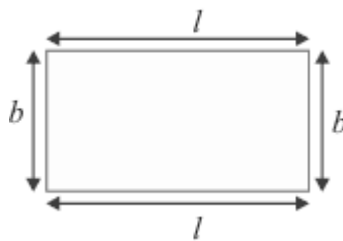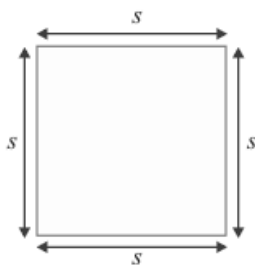# Perimeter

Understanding the Topic

- Perimeter is the distance around a closed shape.
- It is found by adding the lengths of all sides of the shape
- We use perimeter to find how much boundary is needed to fence or cover something.

Unit of Perimeter

- Same as length – cm, m, km etc.
- Always write unit with the answer

Perimeter Formulas

- Square = 4 × side
- Rectangle = 2 × (length + breadth)
- Triangle = sum of all three sides
- Any closed shape = sum of all sides

Examples with Solutions

1. Example – Square (Easy)

Question: Find the perimeter of a square with side 6 cm.

Solution: 4 × 6 = 24 cm

2. Example – Rectangle (Moderate)

Question: A rectangle has length 8 cm and breadth 5 cm Find its perimeter.

Solution: 2 × (8 + 5) = 2 × 13 = 26 cm

3. **Example – Triangle (Easy)**

   Question: A triangle has sides 5 cm 6 cm and 7 cm Find its perimeter.

   Solution: 5 + 6 + 7 = 18 cm

4. **Example – Real-life Problem (Moderate)**

   Question: A garden is 10 m long and 7 m wide Find the length of fence needed to go around it.

   Solution: 2 × (10 + 7) = 2 × 17 = 34 m

5. **Example – Irregular Shape (Moderate)**

   Question: A figure has sides 3 cm 4 cm 5 cm and 6 cm Find its perimeter.

   Solution: 3 + 4 + 5 + 6 = 18 cm

Summary Points

- Perimeter means total length around a closed figure.
- Add all the sides to find perimeter.
- Unit is same as length like cm m km.
- Use formula for square and rectangle.
- Useful for fencing measuring borders and frames.
- Write correct unit with the final answer.
- Perimeter is a linear measurement.
- Helps in real-life tasks like gardening fencing and wrapping.
- Always check if all sides are given before solving.
- Practice different shapes for better understanding.