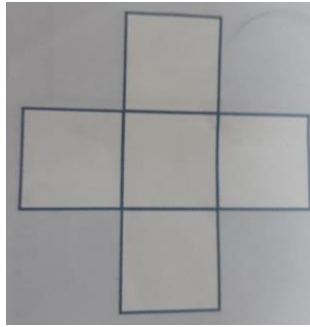**Ex:2.1**

2.Look at the figure given. Here all sides are equal to 6cm and all angles are 90 degree.

Ans:
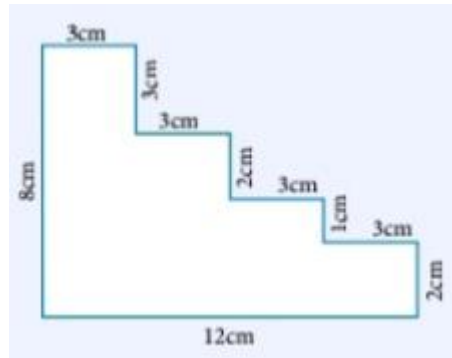
Perimeter = 12 × 6

= 72 cm

4. Calculate the perimeter of given composite shapes.

Ans:

Perimeter = 3 + 6 + 7 + 1 + 4 + 5

= 26 cm

Ans:

Perimeter = 12 + 2 + 3 + 1 + 3 +2 + 3 + 3 + 3 + 8

= 40 cm

5. ABC is an equilateral triangle of side 6cm. It is surrounded by a regular hexagon (a regular figure means all sides are equal and hexa means 6) whose perimeter is same as the triangle. Find the side of the hexagon.
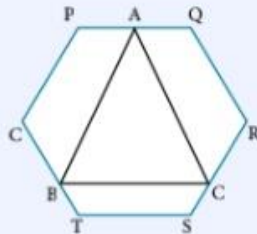
Ans:

Side of triangle = 6 cm

Let Side of hexagon= S

Given, perimeter of triangle = perimeter of hexagon

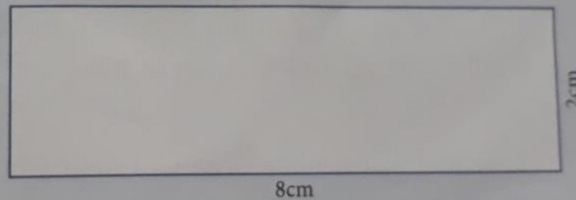**6 + 6 + 6 = S + S + S + S + S + S**

18 = 6 × S

$$18/6 = S$$

$$3 = S$$

$$S = 3 \text{ cm}$$

Side of a hexagon = 3 cm

6. Find the side of the square, whose perimeter is the same as the rectangle of length 8cm and width 2cm.

8cm

2cm

Ans:

Length = l = 8 cm

Width = w = 2 cm

Let side of square = S

Given, Perimeter of square = Perimeter of rectangle

$$4 \times S = 2 \times (l + b)$$

$$4 \times S = 2 \times (8 + 2)$$

$$4 \times S = 2 \times 10$$

$$4 \times S = 20$$

$$S = 20/4$$

$$S = 5 \text{ cm}$$

Side of square = 5 cm