

Class-5

Subject-Mathematics

Chapter-11

Measurement

Lecture-7

*What is area?

Area is a measure of how much space there is on a flat surface.



Area of rectangle:



Perimeter of rectangle = 2 × (Length + Width)

*What is square?

A square is a shape with four sides that are all the same length.



Formula:

- 1) Area of rectangle = Length × Width
- 2) Length = Area ÷ Width
- 3) Width = Area ÷ Length
- **4)** Perimeter of rectangle = $2 \times (\text{Length} + \text{Width})$
- **5)** Area of square = Side \times Side
- **6)** Perimeter of square = $4 \times \text{Side}$
- **7)** 1 ayor = $100 m^2$
- 8) 1 hectare = 1000 m^2

- 9) 1 hectare = 100 ayor
- 10) 1 square km = 100 hectare

Given,

Length = 5 cm

Width = 3 cm

We know,

Area of rectangle = Length \times Width

= (5 \times 3) Square cm

= 15 Square cm

Ans: 15 Square cm.

2.



Given,

Area of rectangle = 242 Square cm

Length = 22 cm

We know,

Width = Area ÷ Length = (242 ÷ 22) cm = 11 cm

Ans: 11 cm.

3.



Given,

Area of rectangle = 150 Square cm

Width = 10 cm

We know,

Length = Area \div Width = (150 \div 10) cm = 15cm Ans: 15 cm.



Given,

Side of a square = 4 cm

We know,

Area of square = Side \times Side

= (4×4) Square cm

= 16 Square cm

Ans: 16 Square cm.



Given,

Side of a square = 1 km

We know,

Area of square = Side \times Side

= (1×1) Square km

= 1 Square cm

Ans: 1 Square cm.

Exercise (Do yourself)

1. There is a rectangular-shaped paddy field which width is 750 metres and the length is 1200 metres. What is the area of this paddy field?

2. The width of a rectangular-shaped park is 50 metres and its area is 4250 square metres. What is the length of this park?