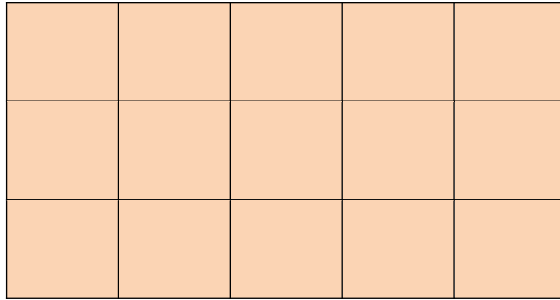


Area

Important points:

- The word Area is a Latin word which means a vacant piece of level ground.
- In geometry the Area can be defined as the surface enclosed by a figure or an object.
- The area of a figure is the number of unit squares that cover the surface of a closed figure.
- Area is measured in **Square units** such as square centimeters, square feet, square inches etc.
- Area of smaller objects such as a notebook or a pencil box is measured in square centimeters.
- Area of bigger surfaces such as playgrounds is measured in square meters.
- For ex. If you want to paint the walls of your new home you need to know the area to calculate the amount of paint required.

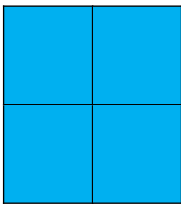




Exercise – 3

1. Find the area of the following: (Area of each square = 1 cm sq.)

a)



We know that-

Area of a square = Side x Side

$$= 2 \times 2$$

$$= 4 \text{ cm sq.}$$

b) practice in your rough copy



2. Find the area of a rectangle whose:

a) Length = 24 cm, breadth = 9 cm

We know that –

Area of a rectangle = length x breadth

$$= 24 \times 9$$

$$= 216 \text{ sq cm.}$$

b) practice in your rough copy

3. Find the area of a square whose:

a) Side = 17 cm

We know that-

Area of a square = Side x Side

$$= 17 \times 17$$

$$= 289 \text{ sq cm.}$$

b) Side = 21 cm

We know that-

Area of a square = Side x Side

$$= 21 \times 21$$



$$= 441 \text{ sq cm}$$

c) and d) practice in your rough copy

4. The length and breadth of a rectangular table are 280 cm and 125 cm. Find the area of the table.

Sol: Length of a rectangular table = 280 cm

Breadth of a rectangular table = 125 cm

We know that-

Area of a rectangle = length x breadth

$$= 280 \times 125$$

$$= 35,000 \text{ sq cm.}$$

5. Find the area of a square tile whose side is 32 cm.

Sol: Side of a square tile = 32 cm



We know that –

Area of a square = side x side

$$= 32 \times 32$$

$$= 1024 \text{ sq cm.}$$

