MONTH : JANUARY

SESSION : 2

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 17

CHAPTER NAME : PERIMETER AND AREA

SUB-TOPIC : AREA OF RECTANGLE AND SQUARE
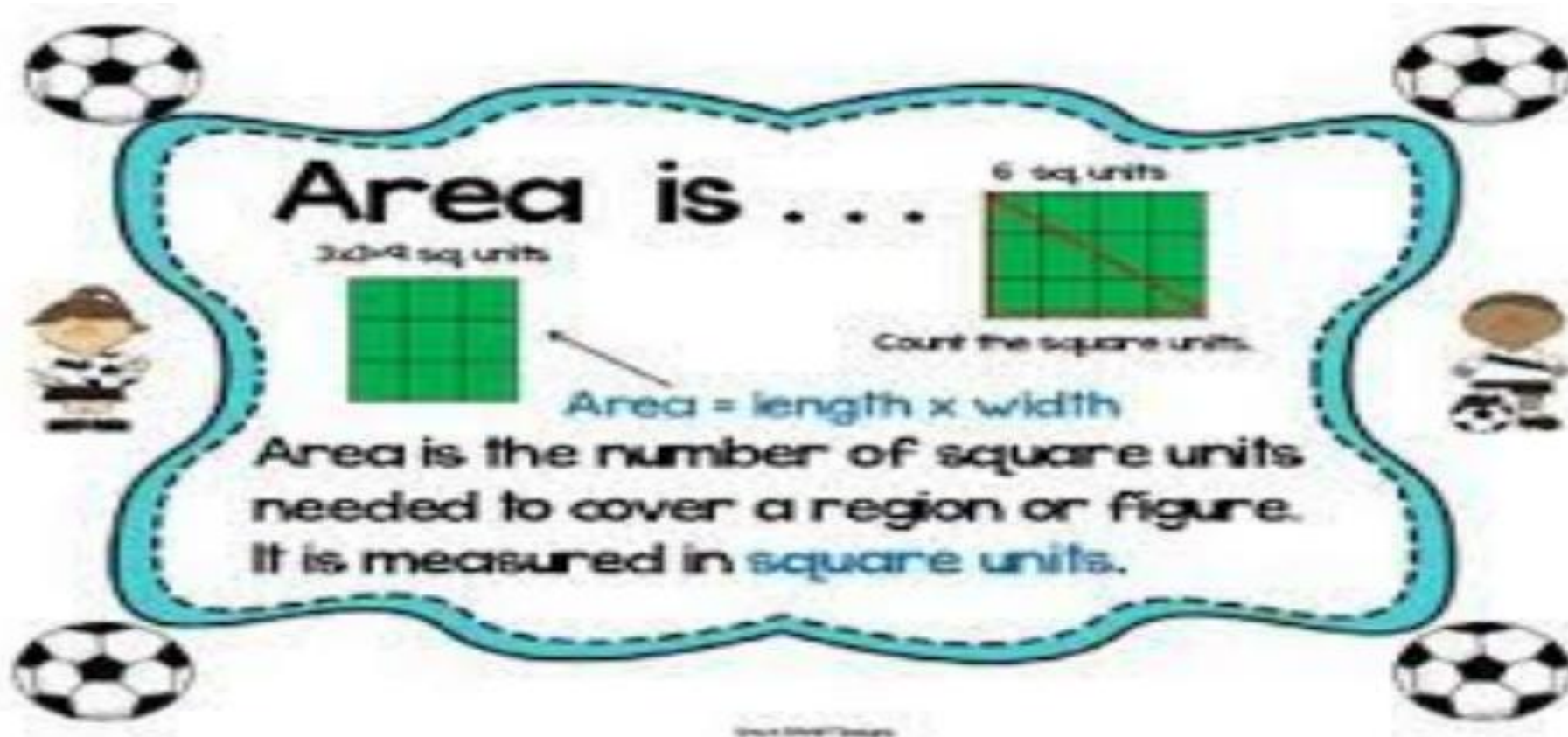
EXERCISE 17 C Q. 1 TO 3

LEARNING OBJECTIVE :

Enable learners :

- **To find the area of rectangle and square.**

Area is . . .

6 sq units

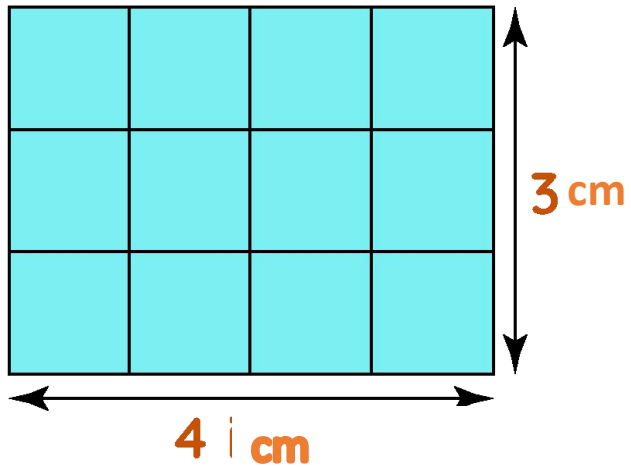3x3=4 sq units

Count the square units.

Area = length x width

Area is the number of square units needed to cover a region or figure. It is measured in square units.

Area & Perimeter

3 cm

4 i cm
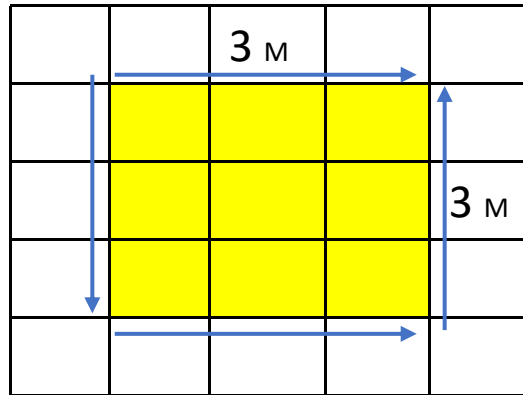
In the picture, area = length x breadth

$$= 4 \times 3 = 12 \; cm^2$$

As Area is the space covered by a particular shape.
The no. of squares covered is 12.

Area of a rectangle = l x b

3 m

3 m

In the picture, area = side x side

= 3 x 3 = $9 \ m^2$

As Area is the space covered by a particular shape.
The no. of squares covered is 9.

Area of a square = side x side

Area & Perimeter

When area of a rectangle is given length= $\dfrac{AREA}{BREADTH}$

If breadth of a rectangle is 30 cm and Area is 300 sq.cm. find the length.

$$L = \frac{A}{B} = \frac{300}{30} = \textbf{10 cm .}$$

When area of a rectangle is given breadth = $\dfrac{AREA}{LENGTH}$

If length of a rectangle is 40 cm and Area is 320 sq.cm. find the breadth.

$$B = \frac{A}{l} = \frac{320}{40} = \textbf{8 cm}$$

1. Find the area of rectangles whose length and breadth is given.

a. L = 10 m   B = 7m

Area = l x b =   10 x 7 = **70 sq.m**

b. L = 15 cm   B = 20 cm

Area = l x b =   15 x 20 = **300 sq.cm**

c. L = 25 cm   B = 16 cm

Area = l x b =   25 x 16 = **400 sq.cm**

d. L = 18 cm   B = 12 cm

Area = l x b =   18 x 12 = **216 sq.cm**

e. L = 8 dm   B = 6 dm

Area = l x b =   8 x 6 = **48 sq.dm**

f. L = 14 dm   B = 11 dm

Area = l x b =   14 x 11 = **154 sq.dm**

1. Find the area of rectangles whose length and breadth is given.

g. L = 12 dm   B = 9 dm

Area = l x b =   12 x 9 = **108 sq.dm**

h. L = 5 m = 500 cm   B = 25 cm

Area = l x b =   500 x 25 = **12500 sq.cm**

2. Find the area of square whose one side is given.

a. Side = 1 m 10 cm = 110 cm

Area = side x side =   110 x 110 = **12100 sq.cm**

b. Side = 5 m 25 cm = 5 2 5 cm

Area = side x side =   5 2 5 x 5 2 5 = **275625 sq.cm**

c. Side = 2 cm 4mm = 24 mm

Area = side x side =   24 x 24 = **576 sq.mm**

d. Side = 4 cm 5mm = 45 mm

Area = side x side =   45 x 45 = **2025 sq.mm**

e. Side = 1 m 6 dm = 16 dm

Area = side x side =   16 x 16 = **256 sq.dm**

f. Side = 3.5 m

Area = side x side =   3.5 x 3.5 = **12.25 sq.m**

3. Study and find the answers.

a. L = 50 cm Area = 300 sq.cm

$$B = \frac{A}{L} = \frac{300}{50} \quad \textbf{= 6 cm}$$

b. B = 12 m Area = 156 sq.m

$$L = \frac{A}{B} = \frac{156}{12} \quad \textbf{= 1 3 m}$$

c. B = 21 m Area = 504 sq.m

$$L = \frac{A}{B} = \frac{504}{21} \quad \textbf{= 24 m}$$

d. L = 4m Area = 12 sq.m

$$B = \frac{A}{L} = \frac{12}{4} \quad \textbf{= 3 m}$$

e. L = 4m Area = 72 sq.m

$$B = \frac{A}{L} = \frac{72}{4} \quad \textbf{= 18 m}$$

Complete Exercise 17 B in the copy.

Learning Outcomes

Students are able:

To find the area of rectangle and square.

THANKING YOU
ODM EDUCATIONAL GROUP