MONTH : JANUARY

SESSION : 3

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 17

CHAPTER NAME : PERIMETER AND AREA

SUB-TOPIC : AREA OF RECTANGLE AND SQUARE

EXERCISE 17 C Q. 4 TO 8

LEARNING OBJECTIVE :

Enable learners :

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

4. Mr. Seth has a beautiful lawn in his garden. Its area is 98 m^2 and its length is 14 m. what is its breadth?

Area of the lawn =   98 m^2

Length =   14 m

Breadth = $\dfrac{area}{length}$ $= \dfrac{98}{14}$ **= 7 m**

Therefore the breadth of the lawn is 7 m.

5. The size of a square field is 35 m long . Find the area of the field. Find also the cost of levelling the field at the rate of ₹ 5 per sq. metre.

Length of the square field = 35 m

Are of the field = L x L = 35 x 35 = **1225 sq. m.**

Cost of levelling per sq. m = ₹ 5

Cost of levelling 1225 sq. m = 1225 x 5 = **₹ 6,125**

So the area of the field is 1225 sq. m and to level it we need ₹ 6, 125.

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6. A swimming pool is 15 m long and covers 135 m^2 . Find its breadth. Also find its perimeter.

Length of the swimming pool =   15 m

Area of the swimming pool =   135 m^2

Breadth = $\dfrac{area}{length}$ $= \dfrac{135}{15}$ **= 9 m**

Perimeter =   2 x (L + B) =   2 x (15 + 9) = 2 X 24 = **48 m**

Area & Perimeter

Thus, the breadth and perimeter of the swimming pool is 9 m and 48 m respectively.

7. A rectangular field is 48 m long and 40 m broad. Find the cost of levelling the field at the rate of ₹ 3 per sq. metre.

Length of the field = 48 m

Breadth =   40 m

Area =   L x B =   48 m X 40 m =   **1920 sq m**

Cost of levelling 1 sq. m =   ₹ 3

Cost of levelling 1920 sq m =   1920 x 3 = **₹ 5, 760**

So, the cost of levelling the field is ₹ 5, 760

Area & Perimeter

8. The area of a hall is 1620 m^2 . The breadth of the hall is 36 m . Find the length of the hall . Also find the perimeter of the hall.

The area of the hall = 1620 m^2

Breadth = 36 m

Length = $\dfrac{area}{breadth}$ = $\dfrac{1620}{36}$ **= 45 m**

Perimeter of the hall = 2 x L + B = 2 (36 + 45) = 2 x 81 = **162 m**

Therefore, the length of the hall is 45 m and the perimeter is 162 m.

Complete Exercise 17 C No. 9 and 10 in the copy.

Students are able:

To find the area of rectangle and square.

THANKING YOU
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