

19.11.2020

CLASS - IVCHAPTER - 16PERIMETER AND AREAAREA

The measure of surface enclosed by a figure is called its area.

MEASUREMENT OF AREA

AREA OF A SQUARE : $(\text{SIDE} \times \text{SIDE}) \text{UNIT}^2$

AREA OF A RECTANGLE : $(\text{LENGTH} \times \text{BREADTH}) \text{UNIT}^2$

1) A farmer has to plough a rectangular field of length 40m and breadth 30m. What is the total area he has to plough?

$$\begin{aligned} \Rightarrow \text{Length of the rectangular field} &= 40\text{ m} \\ \text{Breadth of the rectangular field} &= 30\text{ m} \\ \therefore \text{Total area he has to plough} &= (40 \times 30)\text{ m}^2 \\ &= 1200\text{ m}^2 \end{aligned}$$

Ans. He has to plough 1200 m^2 .

2) Rekha is planning to start a garden in a square plot of length 25m on each side. How much area will she get?

$$\begin{aligned} \Rightarrow \text{Length of the square plot} &= 25\text{ m} \\ \therefore \text{Area she will get} &= (25 \times 25)\text{ m}^2 \\ &= 625\text{ m}^2 \end{aligned}$$

Ans. She will get 625 m^2 of total area.

3) The area of a rectangular carpet is 285 cm^2 and the breadth is 15cm. What is the length of the given carpet?

$$\begin{aligned} \Rightarrow \text{Area of the rectangular carpet} &= 285\text{ cm}^2 \\ \text{Breadth of the rectangular carpet} &= 15\text{ cm} \\ \therefore \text{Length of the rectangular carpet} &= (285 \div 15)\text{ cm} \\ &= 19\text{ cm} \end{aligned}$$

$$\begin{array}{r} 19 \\ 15 \overline{) 285} \\ \underline{15} \\ 135 \\ \underline{135} \\ 0 \end{array}$$

Ans. Length of the given carpet is 19cm.

4. A per house is to be built with an area of 187 cm^2 on a rectangular field of length 17 cm . Find out the breadth of the field.

$$\begin{aligned} \Rightarrow \text{Area of the rectangular field} &= 187 \text{ cm}^2 \\ \text{Length of the field} &= 17 \text{ cm} \\ \therefore \text{Breadth of the field} &= (187 \div 17) \text{ cm} \\ &= 11 \text{ cm} \end{aligned}$$

$$\begin{array}{r} 11 \\ 17 \overline{) 187} \\ \underline{17} \\ 17 \\ \underline{17} \\ 0 \end{array}$$

Ans. Breadth of the field is 11 cm .

Class IV children,

All of copy the above sums along with the questions in your c/w copy.

— (ms)
19/11/2020