Area of Square and Rectangle

1. Find the area of the given figures by splitting them into rectangles.



2. Find the area of shaded regions in the following figures.













3. Choose the correct answer:

4.

a. Area of a rectangle is xy. if its breadth is y, then its length is

i.	2x	ii. x		iii. y			
b.	If area of a square field is 25m2 , then the length of the side is						
i.	42m	ii. 5m ²		iii. 5m			
c.	If a square hall has a side 35.6 then its area is						
i.	10 m ²	ii. 10.5 m ²		iii. 12.67 m ²			
Write T for true and F for false statements.							
a.	1cm ² is the area of a square whose side is of length 1 cm.						
b.	The magnitude of a plane region is called its area.						
c.	The standard unit of area is 1 cm or 1cm ²						

- **d.** The area of a square of length is 4 cm.
- 5. Fill in the blanks in respect of rectangles.

S.No	Length	Breadth	Area
a.	3.5	4.5	
b.	8 cm		16 cm ²
с.	5 cm	324 cm	

6. Mr Sobti wants to cover the floor of a room 3m wide and 4 m long by square tiles. If each square title is of side 0.5m, then find the number of tiles required to cover the floor of the room.

- 7. The length of a rectangular window is $1\frac{1}{2}$ times its width, if the width is 1.20m, find its area. If the window is covering with a glass plate, fix how much the glass plate would cost at the rate of 40 per m².
- 8. How many metres of a carpet 75 cm wide will be required to cover the floor of a room which is 20 metres long and 12 metres broad? Also find the cost of carpeting the room at the rate of ₹ 20 per metre.
- 9. The length of a playground is 172m and its area is 880 m². Find the perimeter of the ground. Also find the cost of fencing it with wire at the rate of 3.5 per metre.
- 10. What is the cost of covering the floor of a corridor 100m long and 6.24m wide with carpet 3m wide at ₹28 per meter?
- 11. How many envelopes can be made out of a sheet of paper 72 cm by 48cm, if each envelope requires a paper of size 18cm by 12cm?
- 12. Length and breadth of a rectangular sheet of paper are 2cm and 10 cm respectively. A rectangular piece is cut from the sheet as shown in the given figure. Which of the following statement is correct for the remaining sheet?



- 13. A wire is cut into several small pieces. Each of the small piece is bent into a square of side 4 cm. If the total area of the small squares is 96 sq cm. What was the original length of the wire?
- 14. A newspaper charges 500 per 20 sq cm area for advertising. A company decided to order a half page advertisement. If length and breadth of newspaper is 30cm × 8cm, what amount will the company has to pay for it?