## Area of a rectangle

## A. Choose the Correct Answer:

,	Choose the Correct / this Wer.		
	1. What is the area of a rectangle with length 12 cm and breadth 5 cm?		
	a) 60 cm²	b) 34 cm <sup>2</sup>	
	c) 24 cm <sup>2</sup>	d) 17 cm <sup>2</sup>	
	2. If the area of a rectangle is 100 cm² and the length is 20 cm, what is the		
	breadth?		
	a) 10 cm	b) 5 cm	
	c) 20 cm	d) 15 cm	
	3. Which of the following is the correct formula for the area of a rectangle?		
	a) Length + Breadth	b) Length × Breadth	
	c) 2 × (Length + Breadth)	d) Length ÷ Breadth	
	4. A rectangle has an area of 72 m <sup>2</sup> . If the breadth is 8 m, what is the length?		
	a) 9 m	b) 10 m	
	c) 8 m	d) 6 m	
	5. The area of a rectangular field is always measured in:		
	a) Centimeters	b) Meters	
	c) Square units	d) Liters	
В.	Write the Missing Terms to Complete the Sentences:		
	1. The formula to find the area of a	rectangle is	
	2. Area is always expressed in	units.	
	3. If the length is 9 cm and the breadth is 3 cm, the area is		
	4. A rectangle with length 10 m and breadth 0 m has an area of		
	5. A square is a special type of recta	ngle where equals	
C.	Figure out the answers to these questions:		
	1. A rectangular garden is 15 m long and 10 m wide. What is its area?		
	2. The length of a rectangular room is 12 m, and its area is 96 $\mathrm{m}^2$ . Find the breadth.		
	3. A painter needs to paint a rectang high, what is its width?	gular wall of area 48 m <sup>2</sup> . If the wall is 6 meters	
	4 Δ rectangle has a breadth of 4.5 c	m and a length of 7 cm. What is the area?	

- 5. A rectangular tile is 25 cm long and 20 cm wide. How many such tiles are needed to cover a floor of area 10,000 cm<sup>2</sup>?
- 6. The length of a rectangle is twice its breadth. If the breadth is 5 cm, find its area.
- 7. A rectangular plot is 30 m in length and 20 m in width. How much area does it cover?
- 8. Two rectangles have the same area of 100 cm<sup>2</sup>. One has a length of 10 cm, and the other has a length of 25 cm. Find the breadths of both rectangles.

## D. Mark each sentence with a True ( $\checkmark$ ) or False (X):

1. The area of a rectangle is found by multiplying length and breadth.	
2. Area can be measured in cubic centimeters.	
3. A rectangle with length 0 cm will have zero area.	
4. Area and perimeter of a rectangle are always equal.	
5. If two rectangles have the same area, they must have the same length and breadth.	

## E. Challenge yourself with these questions:

- 1. A poster is shaped like a rectangle. It is 40 cm long and 25 cm wide. What is the area of the poster?
- 2. Find the area of a rectangle whose length and breadth are given as mixed numbers: 3½ m and 2¼ m.
- 3. A rectangle has length 9.4 m and breadth 3.6 m. Find the area.
- 4. Convert an area of 1.5 m<sup>2</sup> to cm<sup>2</sup>.
- 5. A farmer has a rectangular plot with area 1200 m². If the length is 30 m, what is the breadth of the plot?