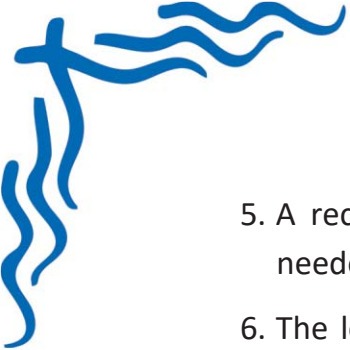


- ## Area of a rectangle



5. A rectangular tile is 25 cm long and 20 cm wide. How many such tiles are needed to cover a floor of area $10,000 \text{ cm}^2$?
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^2 . 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 (✓) 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.

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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: $3\frac{1}{2} \text{ m}$ and $2\frac{1}{4} \text{ m}$.
3. A rectangle has length 9.4 m and breadth 3.6 m. Find the area.
4. Convert an area of 1.5 m^2 to cm^2 .
5. A farmer has a rectangular plot with area 1200 m^2 . If the length is 30 m, what is the breadth of the plot?