

## Area of rectangle: CPP

1. A rectangular grassy lawn measuring 40 m by 25 m is to be surrounded externally by a path which is 2 m wide. Calculate the cost of levelling the path at the rate of \$ 8.25 per square metre.
2. From a rectangular sheet of tin, of size 100 cm by 80 cm, four squares of side 10 cm are cut from each corner. Find the area of the remaining sheet.
3. Through a rectangular field of sides 90 m x 60 m, two roads are constructed which are parallel to the sides and cut each other at right angles through the centre of the field. If the width of the roads is 3 m, find the total area covered by the two roads.
4. A painting 8 cm long and 5 cm wide is painted on a cardboard such that there is a margin of 1.5 cm along each of its sides. Find the total area of the margin.
5. Each side of a square flower bed is 2 m 80 cm long. It is extended by digging a strip 30 cm wide all around it. Find the area of the enlarged flowerbed and also the increase in the area of the flower bed.
6. A square lawn is surrounded by a path 2.5 m wide. If the area of the path is  $165 \text{ m}^2$ , find the area of the lawn.

7. A school has a hall which is 22m long and 15.5m broad. A carpet is laid inside the hall leaving all around a margin of 75 cm from the walls. Find the area of the carpet and the area of the strip left uncovered. If the width of the carpet is 82 cm, find the cost of the carpet at the rate of \$12 per metre.
8. There is a rectangular field of size 94m x 32m. Three roads each of 2m wide pass through the field such that two roads are parallel to the breadth of the field and the third is parallel to the length. Calculate:  
i) area of the field covered by the three roads.  
ii) area of the field not covered by the roads.
9. A square lawn has a 2m wide path surrounding it. If the area of the path is  $136 \text{ m}^2$ , find the area of the lawn.
10. A table cover, 4m x 2m, is spread on a meeting table. If 25 cm of the table cover is hanging all around the table, find the cost of polishing the table top at \$1.25 per square metre.

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