

Subject: Mathematics

Class: 5

Topic: Perimeter and Area of Rectangles and Squares

Levels: Basic, Intermediate, Advanced

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### Level: Basic

1. Find the perimeter of a square carrom board with side 30 cm. ?
2. A rectangular park is 50 m long and 30 m wide. What is its perimeter?
3. If the side of a square tile is 10 cm, what is its area in sq cm?
4. Find the area of a rectangle with length 12 cm and breadth 8 cm. ?
5. Formula Check: Area of a Square = side  $\times$  \_\_\_\_\_.
6. A stamp has a length of 3 cm and width of 2 cm. Find its area. ?
7. The perimeter of a square is 40 cm. What is the length of one side?
8. Rahul runs around a square field of side 20 m. How much distance does he cover in 1 round?
9. Which has a larger area: A square of side 5 cm or a rectangle of 6 cm  $\times$  4 cm? ?
10. Calculate the perimeter of a rectangle if L = 15 cm and B = 10 cm.

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### Level: Intermediate

1. Arjun wants to fence a rectangular garden of 20 m by 15 m. If wire costs ₹ 10 per metre, find the total cost. ?
2. A square plot has an area of 64 sq m. Find the length of its side.
3. A room floor is 5 m long and 4 m wide. How many square tiles of side 1 m are needed to cover it? ?
4. The perimeter of a rectangle is 60 cm. If the length is 20 cm, find its breadth.
5. Find the cost of leveling a square playground of side 50 m at ₹ 2 per sq m. ?
6. A rectangular sheet of paper has an area of 120 sq cm. If its width is 10 cm, find its perimeter.
7. If you double the side of a square, the new area will be \_\_\_\_\_ times the old area.
8. Priya draws a square with perimeter 32 cm. What is the area of this square? ?
9. Compare the perimeters: Square (side 8 cm) and Rectangle (10 cm × 6 cm). Use symbols (>, <, =).
10. Find the area of a square handkerchief whose perimeter is 100 cm. ?

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### Level: Advanced

1. A path 2 m wide runs inside a square park of side 30 m. Find the area of the path. ?
2. The area of a rectangle is 200 sq cm. If the length is twice the breadth, find the dimensions. ?
3. How many envelopes can be made from a sheet 100 cm  $\times$  75 cm, if each envelope needs 20 cm  $\times$  5 cm?  
?
4. The area of a square is 144 cm<sup>2</sup>. Find the perimeter of a rectangle having the same perimeter as this square and length 15 cm.
5. A wire in the shape of a square of side 10 cm is rebent into a rectangle of length 12 cm. Find its breadth. ?
6. Find the cost of tiling a path of area 50 m<sup>2</sup> if 10 tiles cost  $\times$  500. ?
7. Two squares of side 5 cm are joined side-by-side. Find the perimeter of the resulting rectangle. ?
8. A rectangular hall is 15 m long and 12 m wide. Find the cost of carpeting it at  $\times$  150 per sq m. ?
9. If the area of a square is  $s^2$  and  $s = 9$  cm, find the area. If  $s$  is tripled, find the new area. <sup>2</sup>
10. Challenge: A square field has a perimeter of 160 m. Find the cost of planting grass at  $\times$  5 per sq m. ?