Area and Perimeter: Worksheet -8
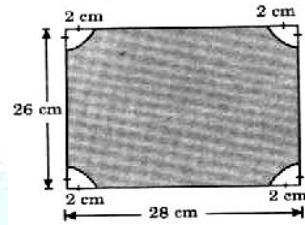
1. Find the perimeter of the shaded region.   [   ]

   a] $92 + 4\pi$ b] $92 + 16\pi$

   c] $92 - 6\pi$ d] $108 + 4\pi$

2. There are two pathways of width 2 m. one running parallel to the length and the another parallel to the breadth of a rectangular plot 30 m × 20 m. The total area of the pathways is _ _ _ _ _ _

3. There is a rectangular plot. A building 24 m × 18 m. is constructed in it leaving a space of 6 m. width all round it. Area of the space left is (in sq. metres) _ _ _ _ _ _ _ _

4. A uniform path of width w is laid around and outside a square field of sides. The area of the path is _ _ _ _ _ _ _

5. The length and breadth of a rectangular plot are l and b. Two rectangular paths each of width w run inside the plot one parallel to the length and other parallel to the breadth. The total area of the paths is _ _ _ _ _ _ _ _ _

6. The area of a path d units wide running around and outside a square plot is M sq. Units. The side of plot is _ _ _ _ _ _ _ _ _ _ _

7. A corridor 1.50 metres wide is constructed around and outside a hall 12 metres long and 8 metres wide. Then the cost of cementing the floor of the corridor at the rate of Rs. 20/- per square metre _ _ _ _ _ _ _ _ _

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