

# Perimeter and Area

## Subtopic: Conversion of Units, Application

### Section 1

1 Mark T for True and F for False

1a. For fencing a square field, one need to know the area of the field.

1b. We need to know the area to fix wall paper on wall.

1c. 1 cm = 10 mm.

2 Match the following

SN	Area		Formula	Answer here	
1	Area of a Square	a	$\pi r^2$	1	
2	Area of a Rectangle	b	length X length	2	
3	Area of a Circle	c	length X breadth	3	
4	Area of a Parallelogram	d	$1/2 \times \text{base} \times \text{height}$	4	
5	Area of a Triangle	e	base x height	5	

### Section 2

3 Fill in the blanks :

To understand how much money is needed to make a cross path around a garden or park, we need to know \_\_\_\_\_.

4 Convert 70 cm<sup>2</sup> in mm<sup>2</sup>

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#### Section 3

- 5 The adjoining figure represents a rectangular lawn with a circular flower bed in the middle. Find: (i) the area of the whole land (ii) the area of the flower bed (iii) the area of the lawn excluding the area of the flower bed (iv) the circumference of the flower bed. ( $\pi = 3.14$ )

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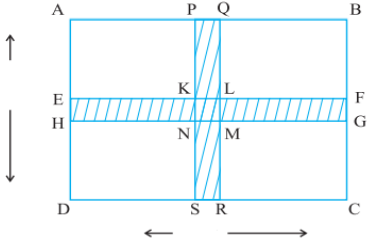
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- 6 Two cross roads, each of width 6 m, run at right angles through the centre of a rectangular park of length 80 m and breadth 40 m and parallel to its sides. Find the area of the roads. Also find the cost of constructing the roads at the rate of rupees 100 per  $m^2$ .

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- 7 Convert  $1000 \text{ cm}^2$  in  $m^2$ .

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#### Section 4 : Think and Answer questions below

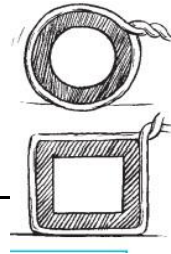
- 8 Explain what is hectare. Write it in  $m^2$ .

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- 9 Rohit wrapped a cord around a circular pipe of radius 4 cm (Figure) and cut off the length required of the cord. Then he wrapped it around a square box of side 4 cm (also shown). Did he have any cord left? ( $\pi = 3.14$ )



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- 10 Convert 4 ha in  $m^2$ .

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