



FORMULAE: Following formulae for perimeters and areas of various figures:

- (i) Perimeter of a rectangle = $2(\text{length} + \text{breadth})$
- (ii) Area of a rectangle = $\text{length} \times \text{breadth}$
- (iii) Perimeter of a square = $4 \times \text{side}$
- (iv) Area of a square = $(\text{side})^2$
- (v) Area of a parallelogram = $\text{base} \times \text{corresponding altitude (height)}$
- (vi) Area of a triangle = $\frac{1}{2} \text{base} \times \text{corresponding altitude (height)}$
- (vii) Area of a rhombus = $\frac{1}{2}$ product of its diagonals
- (viii) Area of a trapezium = $\frac{1}{2} (\text{sum of the two parallel sides}) \times \text{distance between them}$
- (ix) circumference of a circle = $2\pi \times \text{radius}$
- (x) Area of a circle = $\pi \times (\text{radius})^2$
- (xi) Area of a semi-circle: $\frac{1}{2} \times \pi \times r^2$
- (xii) Area of a quarter circle: $\frac{1}{4} \times \pi \times r^2$
- (xiii) Perimeter of a semi-circle: $\pi \times r + 2 \times r$
- (xiv) Perimeter of a quarter circle: $\frac{1}{2} \times \pi \times r + 2 \times r$

Q1: Find the perimeter and area of the sector of a circle of radius 9 cm with central angle 35° .

Q2: Find the perimeter and area of the sector of a circle of radius 14 cm and central angle 30° .

Q3: Find the perimeter and area of the sector of a circle of radius 6 cm and length of the arc as 11 cm.

Q4:

