

Draw a diagram for the following given problems and solve by showing your working steps

1. **The School Garden:** The garden at school is a rectangle measuring 12m by 8m. Draw a diagram and find the area and perimeter.
2. **Swimming Pool:** A rectangular swimming pool is 20m long and 10m wide. Draw the pool and calculate the area and perimeter.
3. **Sports Field:** The sports field is shaped like a square with sides of 30m. What is its area and perimeter?
4. **Flower Bed:** A circular flower bed has a diameter of 6m. Draw the circle and calculate the area and the circumference (use $\pi = 3.14$).
5. **Pathway Around the Park:** A park is a square with sides of 50m, and there is a 2m-wide path around it. What is the area of the path?
6. **Classroom Carpet:** A classroom is rectangular, measuring 6m by 4m, and needs new carpet. How much carpet is needed?
7. **Triangular Roof:** A triangular roof has a base of 8m and a height of 5m. What is the area of the roof?
8. **City Block:** A city block is shaped like a rectangle, 200m by 120m. Draw a diagram and calculate the area and perimeter.
9. **Farm Fencing:** A farmer wants to fence a rectangular paddock measuring 80m by 60m. How much fencing is needed?
10. **Cylindrical Water Tank:** The base of a cylindrical water tank has a radius of 3m. Draw the base and find its area.
11. **Playground Design:** A playground is shaped like an irregular polygon with sides of 10m, 15m, 20m, and 25m. Find its perimeter.
12. **Circular Window:** A circular window has a radius of 1.5m. Draw the window and calculate its area and circumference.
13. **Garden Shed Floor:** A rectangular shed floor measures 4m by 3m. What is the area and perimeter of the floor?
14. **Footpath Around the Pond:** A circular pond has a radius of 5m, and there is a footpath 1m wide around it. What is the area of the path?
15. **Park Entrance Sign:** The entrance sign for the park is in the shape of a triangle with a base of 3m and a height of 2m. What is the area?
16. **Race Track:** A race track is shaped like a rectangle with a semicircle at each end. The straight sections are 40m, and the radius of the semicircles is 20m. Calculate the area and perimeter of the track.
17. **Fenced Playground:** A rectangular playground is 25m by 15m, with a 1m-wide fence around it. What is the area of the fenced region?
18. **Pizza Party:** A large pizza has a diameter of 50cm. Calculate the area of the pizza.
19. **Tennis Court:** A rectangular tennis court is 23.77m long and 10.97m wide. Find the area and perimeter of the court.
20. **Pathway Along a Rectangle:** A 2m-wide pathway runs around a rectangle with dimensions 20m by 12m. What is the area of the pathway?

