

Draw a diagram and solve. Show your detailed working steps

Here are 20 word problems involving area and perimeter for composite shapes, trapeziums, rhombuses, parallelograms, and circle sectors,

1. **Garden Design:** A garden has the shape of a trapezium with parallel sides of 10m and 6m, and a height of 4m. Find the area and perimeter.
2. **Parking Lot:** A parking lot is shaped like a parallelogram with a base of 25m and a height of 12m. Draw a diagram and calculate the area and perimeter.
3. **Kite Layout:** A kite is shaped like a rhombus with diagonals of 8m and 10m. Find the area and perimeter of the kite.
4. **Sector of a Pie:** A slice of pie is shaped like a sector of a circle with a radius of 10cm and an angle of 90° . Find the area and perimeter (arc length included).
5. **House Roof:** The roof of a house is in the shape of a parallelogram with a base of 15m and a slant height of 8m. Calculate the area and perimeter.
6. **Land Plot:** A trapezium-shaped plot of land has parallel sides of 50m and 30m, and the distance between the parallel sides is 20m. Find the area and perimeter.
7. **Flower Bed Design:** A flower bed is a sector of a circle with a radius of 5m and a central angle of 60° . Find the area and perimeter of the flower bed.
8. **Pathway Around a Sector:** A park pathway is shaped like a sector of a circle with a radius of 12m and a 120° angle. What is the area and perimeter of the sector?
9. **Fence Around the Yard:** A yard is in the shape of a rhombus with sides of 20m and diagonals of 24m and 18m. Calculate the area and perimeter.
10. **Sports Ground:** A sports ground is a parallelogram with a base of 60m and a height of 30m. Draw a diagram and find the area and perimeter.
11. **Trapezium Window:** A trapezium-shaped window has parallel sides of 1.5m and 2.5m, with a height of 1m. What is the area and perimeter of the window?
12. **Parallelogram Patio:** A rectangular patio is designed with a parallelogram-shaped section having a base of 8m and a height of 5m. Find its area and perimeter.
13. **Circular Track Sector:** A track is a sector of a circle with a radius of 50m and an angle of 180° . What is the area and perimeter of the sector?
14. **Tiled Rhombus:** A tiled floor is shaped like a rhombus with side lengths of 4m, and one diagonal is 6m. Find the area and perimeter.
15. **Park Design:** A park has a central trapezium-shaped area with parallel sides of 40m and 25m, and a height of 15m. What is its area and perimeter?

16. **Semi-Circular Yard:** A yard is shaped like a semicircle with a diameter of 14m.
Draw a diagram and calculate the area and perimeter.
17. **Building Entrance:** The entrance to a building is shaped like a rhombus with diagonals of 8m and 12m. Calculate the area and perimeter.
18. **Circular Pizza Slice:** A pizza slice is a sector of a circle with a radius of 10cm and an angle of 60° . Find the area and perimeter of the slice.
19. **Parallelogram Field:** A farmer's field is shaped like a parallelogram with a base of 100m and a height of 50m. Draw and calculate the area and perimeter.
20. **Trapezium Ramp:** A ramp is shaped like a trapezium with parallel sides of 5m and 8m, and a height of 3m. What is the area and perimeter of the ramp?