How to Draw Circles?

Understanding How to Draw Circles

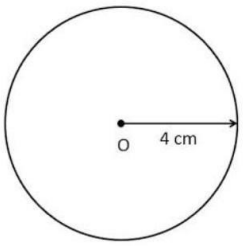
- A circle is a round shape with every point on its boundary being equidistant from the center.
- To draw a circle, we need a compass or a round object like a lid.
- The radius is the distance from the center to any point on the boundary of the circle.
- The center is the point in the middle of the circle.
- The diameter is twice the radius and passes through the center.

Steps to Draw a Circle with a Compass

- **Step 1:** Place the point of the compass at the center of where you want the circle
- **Step 2:** Adjust the compass to the desired radius
- **Step 3:** Keeping the point in place, move the pencil end of the compass around the center to draw the circle
- **Step 4:** Ensure the pencil is at the same distance from the center at all times

Mixed Examples with Solutions

Example: Draw a circle with a radius of 4 cm



Solution: Place the compass point at the center, set the pencil 4 cm from the point, and draw the circle

Example: Draw a circle with a diameter of 6 cm

Solution: Set the radius to 3 cm (half of 6 cm), place the compass point at the center, and draw the circle

Example: Draw a circle with a radius of 5 cm using a round object (lid)

Solution: Place the lid on the paper, trace around it to draw a circle with a radius of 5 cm

Example: Draw a circle with a radius of 2.5 cm

Solution: Adjust the compass to 2.5 cm, place the point at the center, and draw the circle

Example: Draw a circle with a diameter of 8 cm

Solution: Set the compass to 4 cm (half of 8 cm), place the compass point at the center, and draw the circle

Summary Points

- A circle is drawn using a compass or a round object with the radius as the key measure.
- The center is the fixed point from which the radius is measured.
- The compass helps in keeping the distance from the center constant while drawing the circle.
- Practice drawing circles with different radii to get perfect results.
- The process of drawing a circle is the same regardless of size.