

How to Draw a Line Segment?

Understanding How to Draw a Line Segment

- A line segment is a straight path that connects two points.
- It has a fixed length and two endpoints.
- We use a ruler to draw a line segment of a given length.
- Line segments are named by their endpoints (like AB, XY, PQ).
- Drawing line segments helps in making shapes like triangles, rectangles, and more.

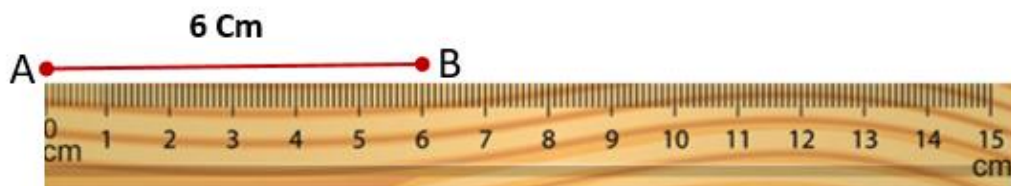
Steps to Draw a Line Segment

- **Step 1:** Take a ruler and place it flat on the paper
- **Step 2:** Mark a point at 0 and name it (e.g., A)
- **Step 3:** From 0, move to the given length (e.g., 5 cm) and mark another point (e.g., B)
- **Step 4:** Use the ruler to join the two points with a straight line
- **Step 5:** Label the line as AB and write the length if needed

Mixed Examples with Solutions

Example: Draw a line segment of 6 cm and name it AB

Solution: Mark A at 0 and B at 6 cm, draw a straight line using ruler $\rightarrow AB = 6 \text{ cm}$

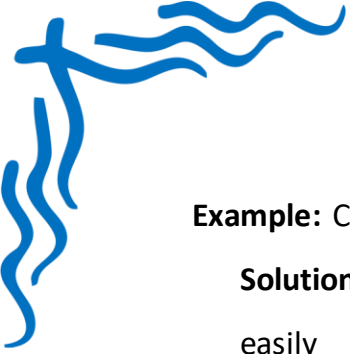


Example: Draw a line segment of 4.5 cm and name it XY

Solution: Start at 0, mark Y at 4.5 cm \rightarrow draw $XY = 4.5 \text{ cm}$

Example: Draw a line segment of 3 cm. What are its endpoints?

Solution: Mark points M and N \rightarrow line segment $MN = 3 \text{ cm}$



Example: Can we draw a 7.2 cm line segment using a ruler?

Solution: Yes, most rulers have small divisions for 0.2 → draw 7.2 cm segment easily

Example: Draw a line segment of 9 cm and label it PQ

Solution: Use ruler to draw from 0 to 9 cm → mark points P and Q → $PQ = 9$ cm

Summary Points

- Line segments have fixed lengths and two endpoints.
- Use a ruler to draw accurate line segments.
- Start from 0 and mark the exact length.
- Label the segment clearly with letters.
- Drawing line segments is the first step in learning to construct shapes accurately .