## Construction of Right-angle triangle when its Hypotenuse and One Side are given

## Let us understand with an example:

**Example:** Draw a right-angle triangle ABC, right-angled at A, with AB = 5 cm and BC= 8 cm.

## **Solution:**

**Step 1.** Draw a line segment AB = 5 cm.

Step 2. Set the compass to point on the line segment with a radius of 5 cm.

Step 3. Make an angle with a protractor with a measure of 90° with A as the center.

**Step 4.** Draw an arc with a compass by taking the 8 cm as a radius from point B. **Step 5.** Join BC and label the sides.



Thus the above figure is the required Right triangle.