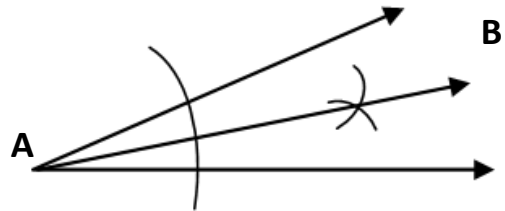


Constructions Guided Notes

1. An angle bisector is a line that divides an angle into **two** equal parts.

To draw an angle bisector, the first step is to draw arcs on the two **sides** of the angle.

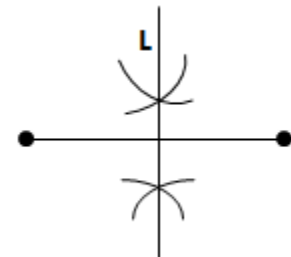
The ray AB in this figure is **an angle bisector**.



2. A **segment bisector** divides a line segment into two equal parts.

The segment bisector always passes through the **midpoint/center** of the line segment.

The line L intersecting the two arcs is **a segment bisector**.



3. The perpendicular on a line from a point (not on the line) always intersects the line at **90** degrees.

To draw a perpendicular on a line from a point, **two** arcs are drawn from the point, which intersect the line.

The line L is **perpendicular** to the line K.

