Lesson 1: Build It

Lesson Summary

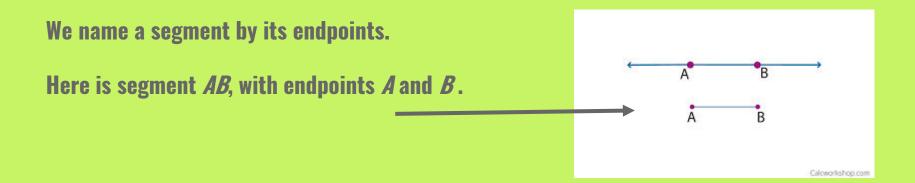
Constructing Geometric Figures:

The tools to use are a straightedge and a compass.



These tools allow us to create precise drawings that someone else could copy exactly. We use the <u>straightedge</u> to draw a **line segment.**

line segment: is a set of points on a line with 2 endpoints.



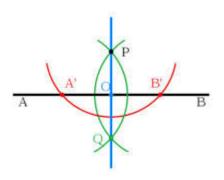
We use the <u>compass</u> to draw a **circle**.

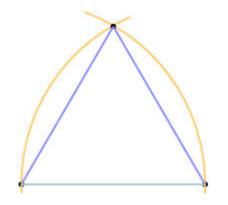
Circle: is the set of all points the same distance from the <u>center</u>.



Early mathematicians noticed that certain properties of shapes were true regardless of how large or small they were.

Constructions were used as a way to investigate what has to be true in geometry without referring to numbers or direct measurements.





The point of intersection between \overline{AB} and \overline{CD} , M, is the midpoint of \overline{AB} .

