Constructions

Objective: To learn how to do basic **geometric constructions with a compass and straightedge**.

Why: To learn HOW to perform the items we've talked about (segment bisector, angle bisector, ll lines, lines, etc.) and WHY they work!
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

Constructions (Worksheet 1)

1. Copy a segment.
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

2. Copy an angle.

Obj: To learn how to do basic geometric constructions with a compass and straightedge.
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

4. Bisect an angle.
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

5. Construct a line parallel to a given line through a point not on the line.
6. Construct a line perpendicular to a line through a point not on the line.
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

7. Construct an equilateral triangle using the segment as one side.
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

8. Construct a square using the segment as one side.
Obj: To learn how to do basic geometric constructions with a compass and straightedge.

9. Construct a regular hexagon inscribed in a circle.

\[
\frac{360}{8} = 45\degree
\]