Unit 2 Learning Targets

2-1: Segment Length and Perimeter

- I can use and interpret vocabulary including between, endpoints, midpoint, congruent, bisect, equidistant, segment, ray, angle (MVP)
- I can find the measure of a segment using a ruler (in, cm, mm) (MVP)
- I can understand and apply the Segment Addition Postulate (including writing proofs) (REI)
- I can use algebra to find missing measures of segments (REI)
- I can use a compass and straight-edge to construct a segment bisector and model the Segment Addition Postulate (CG)

2-2: Distance on the Coordinate Plane

- I can use Pythagorean Theorem to find missing side lengths in a right triangle (REI)
- I can use the Converse of the Pythagorean Theorem to classify a triangle as right, obtuse, or acute based on its side lengths (REI)
- I can find the distance between a point and a line (altitude) (CG)
- I can find the distance between two points on the coordinate plane (CG)

2-3: Partition Points

- I can determine the location of the midpoint for a segment on a number line (CG)
- I can determine the location of the midpoint for a segment on the coordinate plane (CG)
- I can determine the location for a partition point (two-thirds, three-fifths mark, etc) for a segment on the coordinate plane (CG)
- I can determine the location of an endpoint for a segment when given the midpoint and the other endpoint on the coordinate plane (CG)
- I can determine the location of an endpoint for a segment when given a partition point and the other endpoint on the coordinate plane (CG)
- I can write a proof to prove facts involving line segments (midpoints, bisectors) (PR)