Topic: 5.1 Identify Corresponding Parts and Translations

- 1. On a coordinate plane, draw point A at (1,3) and point B at (3,6).
 - Draw a line segment between the two points.
 - Measure the length of the line segment. (hint: distance formula)
 - Draw line segment XY with point X at (3,2) and point Y at (5,5).
 - Measure the length of line segment XY. How does it compare to AB?
- 2. On a coordinate plane, draw a line segment \overline{CD} with points C(1,5) and D(4,2).
 - Draw a line segment between points E(-1, -5) and F(-4, -2).
 - What do you notice about the coordinates of \overline{CD} and \overline{EF} ?
 - Measure the lengths of \overline{CD} and \overline{EF} . What do you notice?
- 3. On a coordinate plane, draw a line segment \overline{GH} with points G(2,1) and H(5,2).
 - Draw a line segment \overline{IJ} with points I(1,2) and J(2,5).
 - Measure the lengths of \overline{GH} and \overline{IJ} . What do you notice?
- 4. On a coordinate plane, draw a line segment \overline{KL} with points K(3,2) and L(4,3).
 - Make a new line segment \overline{MN} by multiplying each of the coordinates of \overline{KL} by 2.
 - Measure the lengths of \overline{KL} and \overline{MN} . What do you notice?