**6.G.3 Plotting Polygons Team Challenge**

**Instructions:** Working with a partner, answer the following questions.

1. For each of the following sets of points do the following:

* Plot the points on the coordinate plane and label each vertex with the appropriate letter
* Name the polygon formed
* Label each side as a horizontal line, vertical line, or slanted line

|  |  |
| --- | --- |
| Set #1:The polygon formed by the points is a:  |  |
| Set #2:The polygon formed by the points is a:  |  |

2. On the coordinate plane draw a polygon that matches all the clues given.

|  |  |
| --- | --- |
| Clues for Mystery Polygon #1:I am made up of four lines. Two of my sides are vertical.Two of my sides are horizontal.Draw me!  |  |
| Clues for Mystery Polygon #2:I am made up of five lines. Two of my sides are vertical.Two of my sides are slanted.One side is horizontal. Draw me! |  |

**6.G.3 Plotting Polygons Team Challenge (Answer Key)**

**Instructions:** Working with a partner, answer the following questions.

1. For each of the following sets of points do the following:

* Plot the points on the coordinate plane and label each vertex with the appropriate letter
* Name the polygon formed
* Label each side as a horizontal line, vertical line, or slanted line

|  |  |
| --- | --- |
| Set #1:The polygon formed by the points is a: Trapezoid(top side is slanted, left side is vertical, right side is vertical, bottom side is horizontal) |  |
| Set #2:The polygon formed by the points is a: Parallelogram(top side is horizontal, left side is slanted, right side is slanted, bottom side is horizontal) |  |

2. On the coordinate plane draw a polygon that matches all the clues given.

|  |  |
| --- | --- |
| Clues for Mystery Polygon #1:I am made up of four lines. Two of my sides are vertical.Two of my sides are horizontal.Draw me! Answers will vary. Make sure to show several different possibilities.   |  |
| Clues for Mystery Polygon #2:I am made up of five lines. Two of my sides are vertical.Two of my sides are slanted.One side is horizontal. Draw me!Answers will vary. Make sure to show several different possibilities.  |  |