Beginning Terminology –

The most basic ***Primitive Notions*** of geometry are known as ***UNDEFINED TERMS.*** They can only be identified by using a description that tells you what they are. Keep in mind that these undefined terms are mathematical ideas that help us understand and solve REAL WORLD Problems

1. A ***POINT*** identifies the location of something. In the real world, we use a dot to represent a point. An actual mathematical point is so small that it can’t be measured. If you look in a book or online, you will see a description similar to the following,

***Point –*** names a location and has no measures,

 which means it has No Width and No Thickness

1. A ***LOCUS*** is a word that is used to identify a set of related points. So, when you come across this word in a book or online, they are just telling you that this is a set of related points.
2. A ***LINE*** is a locus of points which are placed side by side and they extend infinitely in two directions which are opposite of each other. A line has length but cannot be measured because it is infinite. Because it is made of points, it has no width and no thickness.

If you look in a book or online, you might see a description similar to the following,

A **line** is a set of points that forms a straight one-dimensional figure having no thickness and extending infinitely in both directions.

1. A ***PLANE*** is a locus of points that forms a flat surface that extends infinitely in all directions and has no thickness.