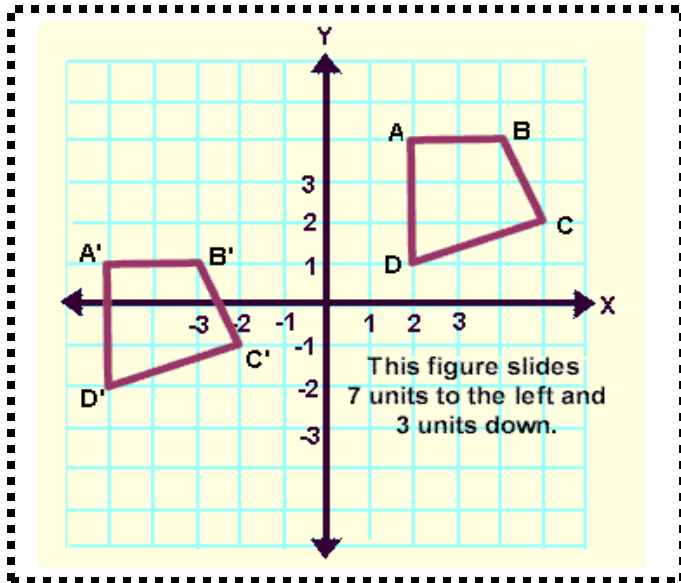


Translations



Translations are “slides”. They can be vertical (up or down), horizontal (right or left), or both. The figure to the left was translated horizontally -7 and vertically -3. Notice the images are the same shape and size. Translations do not change the size or shape of the object, so they are **CONGRUENT**.

Effect on Coordinates

A horizontal shift moves along the x axis, so the x coordinate is affected. A vertical shift moves along the y axis, so the y coordinate is affected. In the example above, the x coordinate would decrease by 7 since the shape was translated seven units to the left.

The y coordinate would decrease by 3 since the shape was translated 3 units down.

One way to notate this is $(x,y) \rightarrow (x-7,y-3)$

If you want to check your rule, plug in a pair of corresponding points.