Coordinate Plane:





REMEMBER

For the X-coordinate:

SLIDE to the LEFT = NEGATIVE
SLIDE to the RIGHT = POSITIVE

For the Y-coordinate:

SLIDE UP = POSITIVE SLIDE DOWN = NEGATIVE





To **<u>REFLECT</u>** a point <u>over the X-AXIS:</u>

- 1. Count the *number of spaces* that the **ORIGINAL POINT** is from the <u>x-axis</u>.
- 2. Draw the <u>NEW POINT</u> the <u>same number of spaces</u> away on <u>the other</u> <u>side of the x-axis.</u>







- 1. Count the *number of spaces* that the **ORIGINAL POINT** is from the <u>y-axis</u>.
- 2. Draw the <u>NEW POINT</u> the <u>same number of spaces</u> away on <u>the other</u> <u>side of the y-axis</u>

or





Dilations("image gets BIGGER or SMALLER")

To perform a DILATION:

<u>MULTIPLY</u> the <u>SCALE FACTOR</u> by <u>BOTH coordinates</u> in each ordered pair.

Remember.....



