Changing Shapes #2   _____

You are going to be using a combination of several different lessons for your final transformation. The main concept of this lesson is how to dilate a shape. But you will notice some other transformations as well. You will need graph paper to graph the shapes. Explain what happens to each shape when you apply the rule.

	A.	B.	C.	D.	E.
Graph ↓	(3x, 3y)	(1/2x, 1/2y)	(2x, y)	(2x, 2y + 5)	(x + 5, y - 5)
(-2, -1)					
(-2, 2)					
(0, 4)					
(2, 2)					
(2, -1)					

Explain what happens to each:

Original ↑   A.   B.   C.   D.   E.

1. Which figures are a true dilation- maintaining a similar figure?

2.   Which figure/s is more like a translation?

3. Which figure is the house wider than the rest?

4. Which figure is congruent to the original?

5. What is the general rule to keep figures similar?

6. How are figures distorted? Give examples.