Date:_____

BASIC INFORMATION:

A dilation is a transformation that produces and image that is the same

_ as the original but is a different ______

Unlike other transformations a dilation is not a _____

____ because size and shape are not preserved.

A **center of dilation** is the point about which a figure is dilated. (We will only use the origin as our center of dilation.)

A figure that has been dilated has just been multiplied by a **scale** factor (k).

The dilation is a reduction if k _____ and an enlargement if k

PERFORMING DILATIONS:

1. Graph the figure and its image after a dilation with a scale factor of 3.





2. Graph the figure and its image after a dilation with a scale factor of 1/2.





DILATIONS Name:_		
Guided Notes	Date:	
Check:		
Determine the coordinates of the image after it has been dilated by $k = 2$.	↓ V	



FINDING SCALE FACTOR:

On each graph the figures have been dilated. Find the scale factor of each dilation and determine whether it is a reduction or enlargement.

1. Scale Factor:

Circle One:

Reduction or Enlargement



2. Scale Factor:

Circle One:

Reduction or Enlargement



Check:

Determine the scale factor for the given dilation.

- a. 2
- b. 1/2
- c. 4
- d. 1/4

