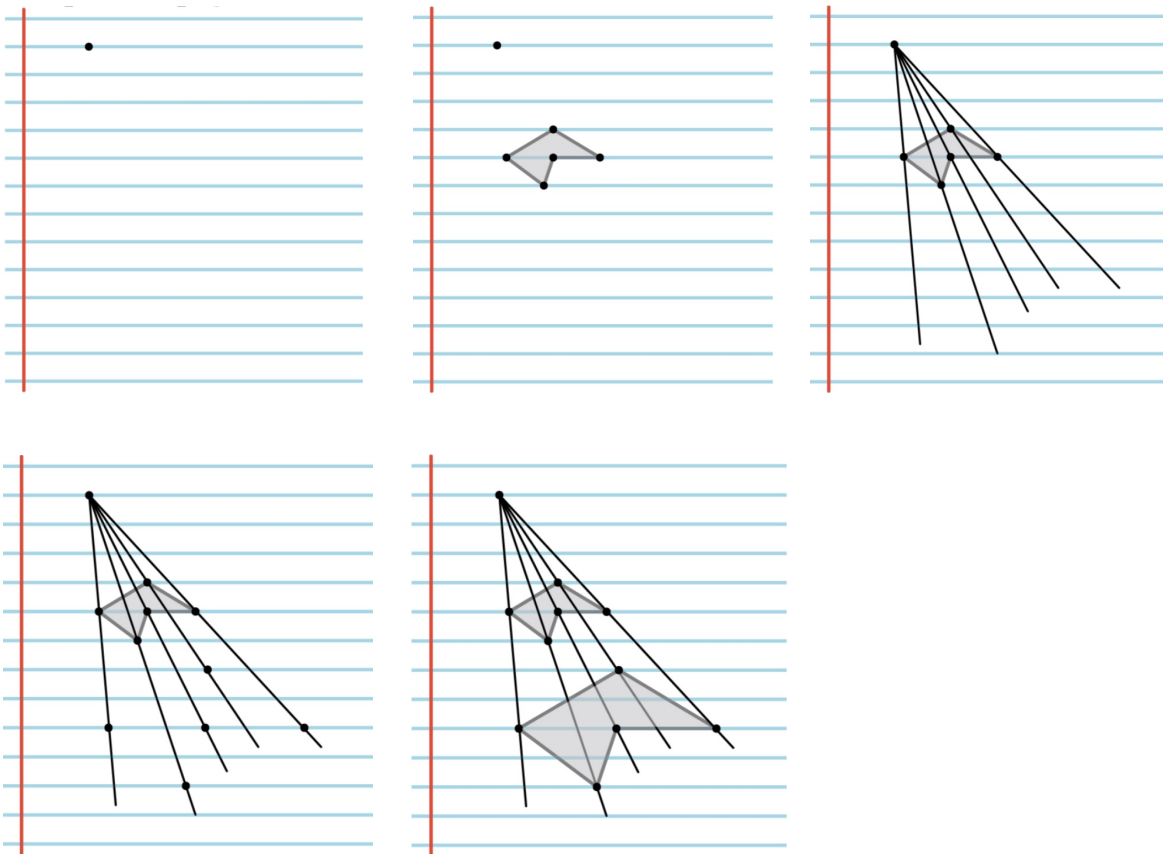


10. Dilation Practice

First & Last Name: _____ Class: _____

Task 1: Scaling Factor of 2

1. On a piece of lined paper, draw a center of dilation near the top left.
2. A little further down, draw a polygon (your choice!) that has all its vertices on the lines of the paper.
3. Use your ruler to draw straight lines from the center to each vertex of your polygon, and extend each line more than twice as far down the page.
4. Make dots for the vertices of the image polygon so that they are twice as far from the center as the originals.
5. Connect the vertices to see the image.



Task 2: Scaling Factor of 1/2

Repeat Task 1 but with a scaling factor of $1/2$. (Hint: Before you start, think about where your pre-image should be drawn).

Task 3: Scaling Factor of $-1/2$

Repeat Task 1 but with a scaling factor of $-1/2$. (Hint: Before you start, think about where your center should be drawn).

Task 4: Scaling Factor of -2

Repeat Task 1 but with a scaling factor of -2 .