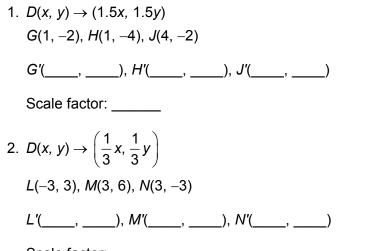
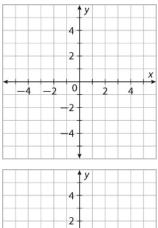


Dilations

Practice and Problem Solving: A/B

For Problems 1 and 2, apply the dilation *D* to the polygon with the given vertices. Name the coordinates of the image points, and plot the pre-image and the image. Tell the scale factor.





4			
2 -			-
			X
0	2	4	-
-2-			+
-4			
			-

Scale factor:

For Problems 3–6, use your graphs for Problems 1 and 2.

3. If you drew lines $\overrightarrow{GG'}$, $\overrightarrow{HH'}$, and $\overrightarrow{JJ'}$, on the graph for Problem 1,

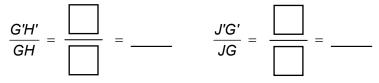
where would the lines intersect? (____, ___) This point is called the

_____ of _____.

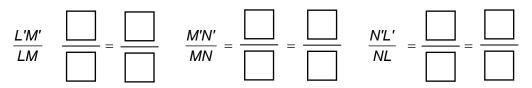
4. If you drew lines $\overline{LL'}$, $\overline{MM'}$, and $\overline{NN'}$ on the graph for Problem 2,

where would the lines intersect? (____, ___)

5. Fill in the lengths of the segments in Problem 1. Express each ratio as a decimal.



6. Fill in the lengths of the segments in Problem 2. Express each ratio in radical form, if necessary, and then as a fraction in lowest terms.



MODULE 11 Similarity and Transformations

LESSON 11-1

