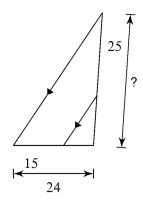
					1
Geometry Local Lomac 2015-2016 Date <u>4/2</u> due <u>4/13</u> Similarity: Transformation Construction 11.				1.9L	
Name			Per		
LO:	I can answer questions and solv transformations.	ve problems in	volving scale o	drawings, dilations, and similarity	
□ DO I	NOW On the back of this pack	ket			
(1) compass, straightedg e	Scale Drawing Ratio Method (a) Create a scale drawing (a and scale factor r = ½. (a scale factor r = ½.	,	-	sing the ratio method about center O	
	o o			T	

(2) Side Splitter

(2) compass, straightedg e

Find the measure of the segment with the question mark.

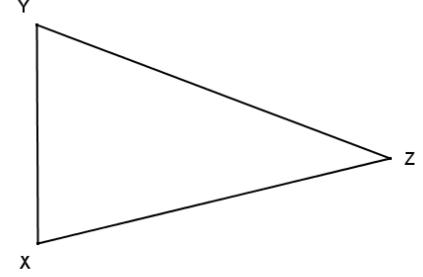


\square (3)
compass
straighted

The Dilation Theorem

 $(D_{X,1/4})$

Produce a scale drawing of \triangle XYZ with point X as the center and a scale factor of $\frac{1}{4}$. Use the dilation theorem to predict Y'Z', and then measure its length directly using a ruler. Does the dilation theorem appear to hold true?



		
Predict Y'Z'	Measure Y'Z'	_ ls Y'Z' YZ ?

(4) compass, straightedg

Dilations Review

A dilation with center O and scale factor r takes A to A' and B to B'. Find the center O and determine the scale factor r. Complete the function notation.



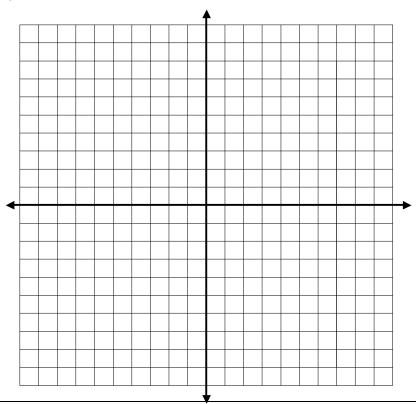
$A \bullet$		• B'	
A •	• R		

٥.

] (5) compass, straightedg

Dilation behavior

Given U(1,3), V(-4,-4), and W(-3,6) on the coordinate plane, perform a dilation of \triangle UVW from center O(0,0) with a scale factor of 3/2. (D_{origin,3/2}(\triangle UVW)) Determine the coordinates of images of points U', V', and W', and describe a numeric relationship between the coordinates of the image points and the coordinates of the preimage points.

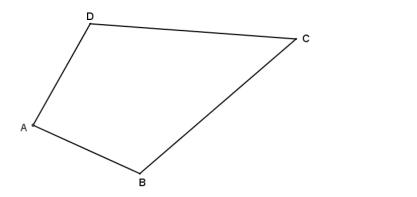


Dilation behavior

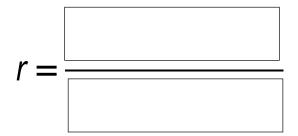
compass, straightedg

Perform the dilation described. Verify that you have made a scale drawing by comparing side ratios and angle measures.(ratios of corresponding sides should be equal and angle measures should be equal)

Dilate kite ABCD from center O using a scale factor $r = 1\frac{1}{2}$.



(7)	Scale factors are determined by:
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(8)	Similarity: Mapping one figure to another through a composition of transformations.
compass, straightedg e	Describe a sequence of transformations that maps J to J'''. Write the sequence in function notation.

