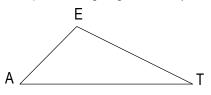
Geome	ry Local Lomac 2015-2016	Date <u>3/17</u>	due <u>3/18</u>	Similarity: Scale Drawings Ratio Method 1	1.2L	
Name			Per			
LO: I can make a scale drawing by construction or the ratio method (using dilation).						
<b>DO NOW</b> On the back of this packet						
	IOW On the back of this pac	ket				
<b>DO N</b>	IOW         On the back of this pac           Scale drawing with the ratio n					

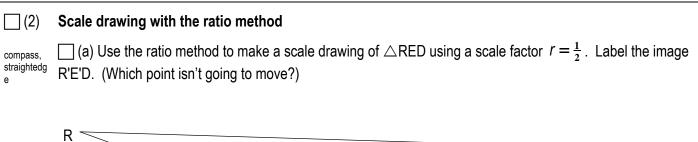
1



- - -

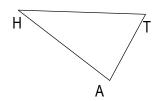
Step 1:			
Step 3:			
Step 5:			

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)



(b) Use the ratio method to make a scale drawing of  $\triangle$ HAT using a scale factor  $r = \frac{9}{2}$ . Label the image H'AT'. (Which point isn't going to move?)

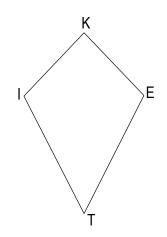
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Ø

## (3) Using dilation and the ratio method to make scale drawings

(a) Create a scale drawing (dilation) of the figure below using the ratio method about center O and scale factor  $r = \frac{1}{2}$ . (notation:  $D_{O,\frac{1}{2}}$ )



## STEPS:

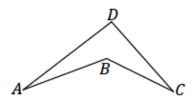
o

ruler

- (1) Draw rays \_\_\_\_\_, \_\_\_\_, \_\_\_\_,
- (2) Use a ruler to find the distance OK = \_\_\_\_\_ and then multiply OK by \_\_\_\_ to get OK' = \_\_\_\_\_
- (3) Repeat step 2 for OI, OT, and OE
- (4) Label and connect K'l'T'E'
- (b) Create a scale drawing (dilation) of the figure below using the ratio method about center O and scale factor r = 3.

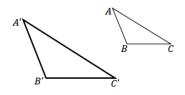
## (notation: D<sub>0,3</sub>)

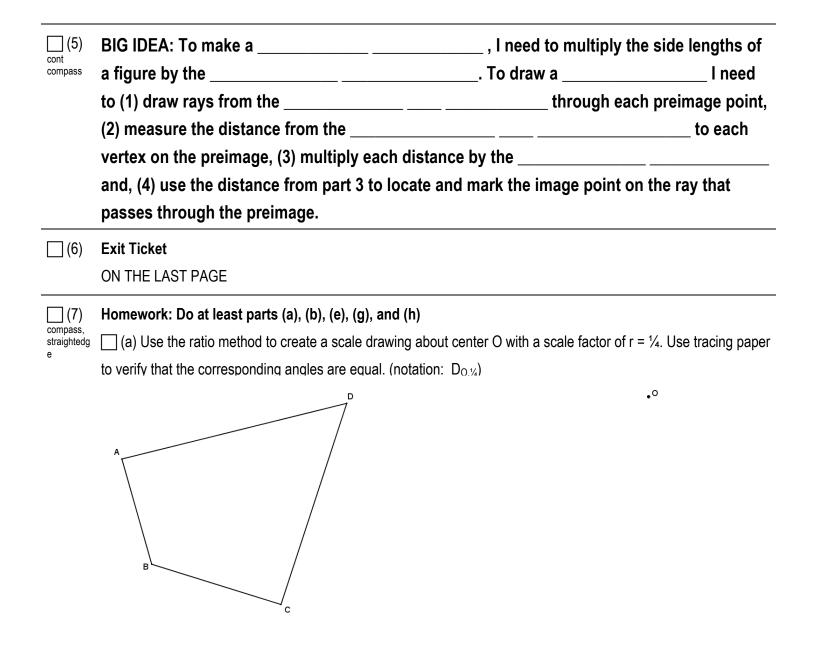
- STEPS (1) Draw \_\_\_\_
  - (2) Measure \_\_\_\_\_ and multiply by \_\_\_\_\_ to locate \_\_\_\_\_
    (3) Repeat, label, connect

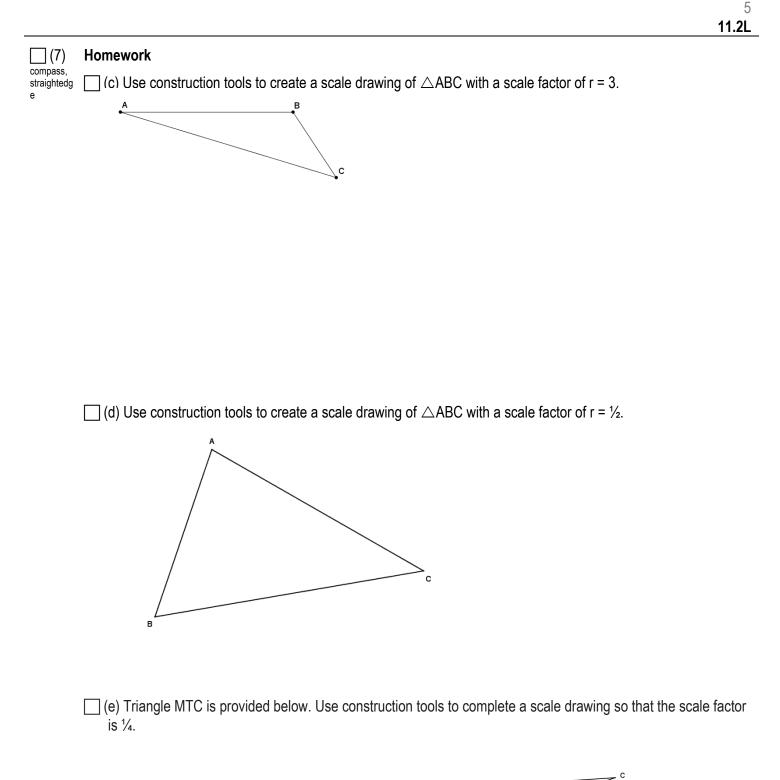


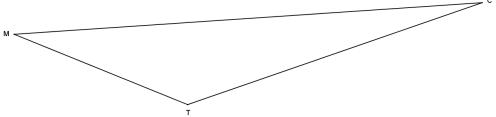
## $\Box$ (4) Locating the center of a dilation

 $\Box$  (c)  $\triangle$  A'B'C' is a scale drawing of  $\triangle$  ABC drawn by using the ratio method. Use your ruler to determine the location of the center O used for the scale drawing.





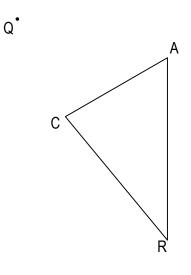




Exit Ticket	Name	Date	Per	11.2L

(1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

- (a) Use the ratio method to create a scale drawing about center Q and scale factor r = 2(b) Summarize the steps for making a scale drawing by the ratio method.



DO NOW	Name	Date	Per	11.2L
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(1) A scale drawing is drawn with each of the scale factors below. For each scale factor, state whether the scale drawing will be larger or smaller than the original.

(a) *r* = **4** 

(b)  $r = \frac{1}{3}$ 

(c)  $r = \frac{5}{7}$ 

(d) 
$$r = \frac{8}{3}$$

(2) What is happening in this series of photos?

