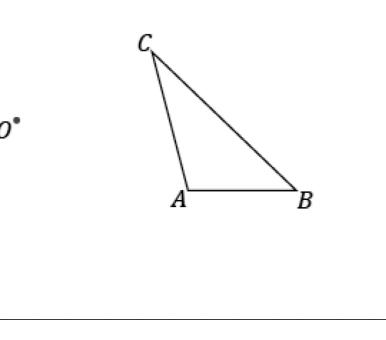
□ DO	NOW – Geometry Regents Lomac 2014-2015 Date		due Scale drawings Parallel 5.3L Method		
(DN) Describe how to make a scale drawing using the ratio method (from lesson 5.2)		Name LO:	Per I can use the parallel method to create scale drawings and can verify that a drawing is to scale by showing that lengths are proportional and angles are congruent.		
Drawing parallel using a ruler and set square (or any losessquare (a) Saun used a ruler (the rectangle) and a setsquare **C** **A** **What ensures that the line Saun drew is parallel to AB?*			iangle) to draw a line through C parallel to AB.		
	A		В		

culer, setsquare	

Scale drawings using the parallel method

Describe the steps needed to use the parallel method to make a scale drawing of the figure below with center O and scale factor r = 2. Perform one step at a time, describing each step as you complete it.

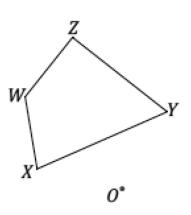


□ (3)					
ruler,					
setsquare					

Scale drawings using the parallel method

With a ruler and setsquare, use the parallel method to create a scale drawing of WXYZ by the parallel method. W' has already been located for you.

 $W_{\underline{i}}'$



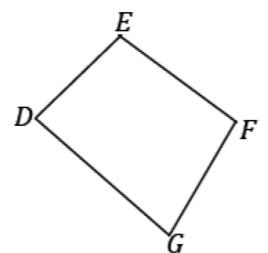
Determine the scale factor of the scale drawing.

Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

(4) ruler, setsquare

Scale drawings using the parallel method

With a ruler and setsquare, use the parallel method to create a scale drawing of DEFG with center O and scale factor $r = \frac{1}{2}$.



o°

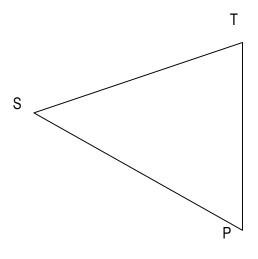
Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

(5) ruler, setsquare

Exit Ticket

Trace point O and triangle STP onto your paper and use a ruler and setsquare to make a scale drawing of triangle STP with center O and scale factor $r = \frac{1}{2}$ and label it S'T'P'. Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

(1)

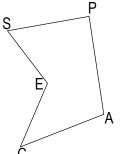


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(6) compass, straightedg

Homework: FINISH CLASS WORK AND . . .

 \square (1) Use the parallel method to create a scale drawing of SPACE with center O and scale factor r = 3 and label the drawing S'P'A'C'E'



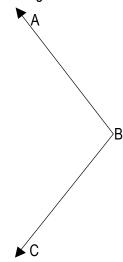
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Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

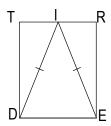
___ (6)

Homework

(2) Construct a copy of angle ABC and label it angle DEF. Construct the angle bisector of angle DEF.



 \square (3) Robert says that \angle IDE and \angle EID are the base angles of an isosceles triangle. What is wrong with his statement?



(4) Prove that triangle DNG is congruent to triangle ONI.



$$\angle$$
NIO \cong \angle NGD

