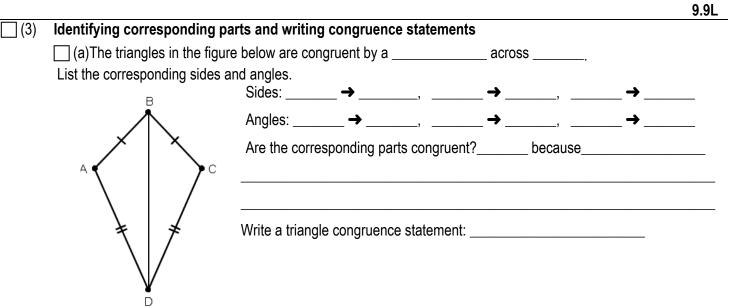
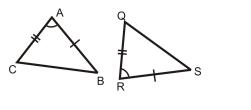
Geome	try Local Lomac 2015-2016 Date <u>3/1</u> due <u>3/2</u> Correspondence, Congruence and Rigid 9.9L Motions							
Name LO:	Per I can identify corresponding parts, write congruence statements, and explain how transformations and congruence are related.							
DO NOW On the back of this packet								
□ (1)	Need to know: Corresponding parts							
	Correspondence can be thought of as a "pairing" of points, segments, or angles between two shapes. List a few everyday objects that come in pairs.							
	 (a) Are pairs of everyday objects always identical/congruent? (b) Think about a pair of shoes. What part of the right shoe corresponds to the given part of the left shoe? Left Shoe: Lace Sole Right Shoe: 							
	(c) The right lace does/does not have to be exactly the same as the left because							
	(d) Like the shoes, corresponding parts of figures do not have to be exactly the same – congruent – however, they always will be when a figure undergoes a rigid transformation because							
(2) transparen cies, dry	Identifying corresponding parts You may use transparencies to help you see each correspondence.							
erase markers,	In the figure below, the left figure has been mapped to the one on the right by a rotation of 240° around point P.							
erasers	Point corresponds to point							
	Point corresponds to point							
	Point corresponds to point							
	Segment corresponds to segment c z							
	Segment corresponds to segment							
	Segment corresponds to segment							
	Angle corresponds to angle							
	Angle corresponds to angle							
	Angle corresponds to angle							
	Based on the corresponding parts above, write a congruence statement for the triangles Write the function notation for the transformation							



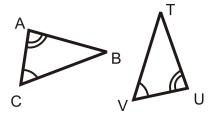
- (b) Corresponding parts are not ALWAYS congruent. For each pair of triangles,
- (1) List corresponding sides and angles
- (2) Write a triangle congruence statement if there is a place that says "triangles"



Angles:

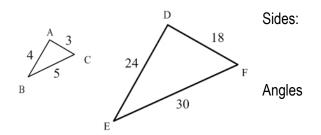
Sides:

Triangles:





Angles:

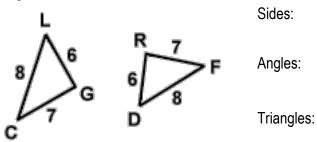


(4) Exit Ticket

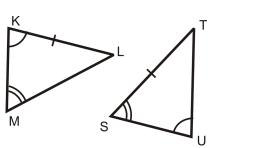
ON THE LAST PAGE

(5) Homework

(1) For each pair of figures, name the corresponding segments (3) and angles (3) and then write a triangle congruence statement.



Sides: CAZBARESE CARTERING CARTERINO



Angles:

Sides:

Triangles:

(5) Homework

(2) Construct a 45° angle.

(HINT 1: construct a perpendicular bisector to get a 90° angle.)

(HINT 2: bisect one of the 90° angles to get 45°)

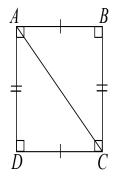
(3) Construct a 30° angle.

(HINT 1: construct an equilateral triangle to get a 60° angle.)

(HINT 2: bisect one of the 60° angles to get 30°)

				5			
EXIT TICKET	Name	Date	Per	9.9L			
(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:							

In rectangle ABCD, diagonal AC is drawn. One triangle is a rotation of the other around the midpoint of \overline{AC} .



List the corresponding segments:	corresponds to
	corresponds to
	corresponds to

Write a congruence statement for the triangles in the format $\triangle_{\cong} \triangle_{-}$.

(2) Add to number 2 in the Do Now – you might see humor where you did not earlier.

6					
DO NOW	Name	Da	ate F	Per	9.9L

(1) Describe what congruence means and draw a picture that illustrates two figures that are congruent.

(2) Describe what is happening in this cartoon. If you think you know why it's supposed to be funny, describe. If not, come back at the end of the lesson and give it a try.

