Geome	try Local Lomac 2015-2016Date 2/12due 2/22Circles and Lines of Reflection9.3L
Name LO:	Per I can construct a line of reflection between an image and its preimage and formally define reflection.
	NOW On the back of this packet
(1) paper circle 9.2	Revisiting Circles from lesson 9.2: (a) For the circles at right, each has a segment connecting a preimage point to an image point and a diameter of the circle. Which diagram is showing the line of reflection, AA' or BB'? How do you know?
(2) N10	Reflections notes Complete the reflection notes on page N10
(3)	Reflections by definition (a) Below is figure ABCD and its reflection. From the notes, we know that the line of reflection is the of the segment that joins a preimage to its image. Use this to construct the line of reflection for ABCD and A'B'C'D'. Label the line <i>q</i> .

(b) \Box Choose any point on the perpendicular bisector you constructed and label it P. Construct circle P with radius \overline{PB} . Draw $\overline{BB'}$. Is the diameter of circle P a segment of the perpendicular bisector (line of reflection) of $\overline{BB'}$?

(4)	Constructing Lines of Reflection Construct the line of reflection for each pair.			
		(b)		
	Write the reflection function:	Write the reflection function:		
	Choose any point on each perpendicular bisector you c passes through a point on the preimage. Does the circl (a) (b) because	e also pass through the corresponding point on the image?		
(5)	Exit Ticket ON THE LAST PAGE			
(6)	Homework (1) Construct the line of reflection for each figure.	Image: Main and Image: Imag		

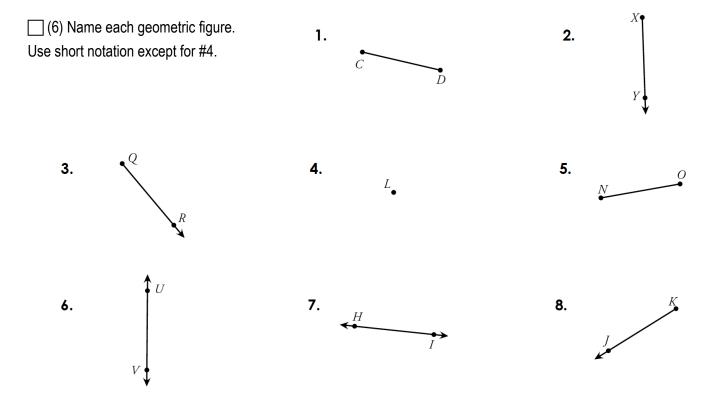
(2) Choose any point on each perpendicular bisector you constructed and label it P. Construct circle P so that it passes through a point on the preimage. Does the circle also pass through the corresponding point on the image?

(6) Homework Cont, compass highlighters (3) Draw points S, T, U, V, W, and X so that all are coplanar except for point X.

(4) Draw acute angle CUB adjacent to right angle CUP.

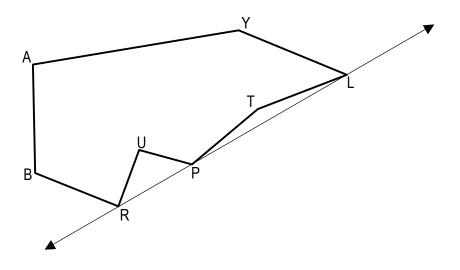
(Remember: each letter can only be used once to represent one point in a diagram.)

(5) Describe what it means when two or more points or figures "coincide".



(6)	Homework		
cont,	(7) Construct an equilateral triangle with side lengths equal to twice the length of a side of this square:		
compass highligh-	(Use the extra segment length to help you determine a length		
ters	equal to twice the length of a side of the square.)		

(7) Which points map to themselves when ABRUPTLY is reflected across line *m*? Explain why they map to themselves.



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Exit Ticket	Name	Date	Per_	9.3L
(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) Draw any points Q and Q'. Construct the line of reflection that maps Q to Q' and label it *m*.

(b) Write the function notation for the reflection you did in part (a).

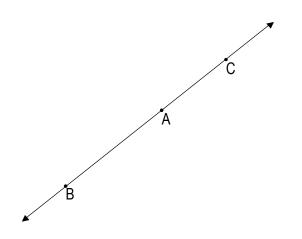
(b) Draw any point R on the line *m*. Describe where R' is located when point R is reflected across line *m*.

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DO NOW	Name	 Date	_Per	9.3L

(1) Which pair of figures shows a reflection, lightning, moon, or trapezoid? How do you know it is a reflection?



(2) Construct the perpendicular bisector of AC.



(3) What does "coincide" mean from your notes? What about this cartoon is supposed to make people smile?

