Geome	try Local Lomac 2015-2016 Date	<u>2/4</u> c	due <u>2/5</u>	Fold	l Perpendi	cular Bisect	tors: [1 8.4L
	NOW – On the back of this packet							
		Name LO:	l can make	e one by fo	olding, and	pendicular bi can explain l dicular bisect	how the	
□ (1)	Need to know							
angle diagrams	Perpendicular means							
	Bisect means							
(2) segments	Folding Perpendicular Bisectors:							
strip	Use the segments on the paper strip of segments to complete each item below. $\square Part A: (1) Fold \overline{AB} so that point A and point B meet exactly – the dots should touch. (2) Crease the paper on this fold. (3) Use a ruler and pencil to draw the line made by the crease. (4) Label the new line CD and draw arrows at its ends. (5) Label the intersection of \overline{AB} and \overline{CD} with the letter E.(6) Repeat steps 1 through 5 for \overline{FG} (label the new line HI and the point of intersection J),\overline{KL} (label the new line RS and the point of intersection O),\overline{PQ} (label the new line RS and the point of intersection T),\overline{UV} (label the new line WX and the point of intersection Y).\square Part B: Write the pair of segments that are congruent for each diagram.\overline{AB}: \underline{=} \overline{FG}: \underline{=} \overline{KL}: \underline{=} \overline{PQ}: \underline{=} \overline{UV}: \underline{=} $							
	□ Part D: Based on what you found in parts and \overrightarrow{CD} , \overrightarrow{HI} , \overrightarrow{MN} , \overrightarrow{RS} , and \overrightarrow{WX} a □ Part E: You described one relationship in What do you think it is? We know this because ∠AEB is a we folded so that point A and point B coincide, w measure of ∠AEB is and when we fold must be half of which is What which is	the diag angl re bisect ed ∠AE	rams. T le which ed the a EB, we _	There is an n means its angle like v	other relations measure is we did in les	onship in the s sson 1.3. So	e diagra . AND, , the	ams. when

2		8.4L
(3)		ar bisector. Include all the information about how we know e know that the segment is perpendicular to the crease.
Compass highlighters	HOMEWORK: (1) Define and draw what each term means. Use your Bisect means:	
	Congruent means:	we show it with the symbol
	Perpendicular means:	it looks like:
	Obtuse angle means:	it looks like:
	Acute angle means:	it looks like:
	Right angle means:	it looks like:
	Straight angle means:	it looks like:
	Straight angle means:	_

(5) Homework

compass

(2) Construct equilateral triangles ABC and DBE. Since "B" appears in both triangle names, B will have to be a vertex (corner) in both triangles.

(3) Look at your construction in part 2. In your diagram, is there a straight line segment AD or AE? If not, how could you redo your construction to ensure that there is? (describe or reconstruct). If you do have segment AD or AE, how could you redo your construction to have the other segment – meaning, if you had AD, what could you change to have AE or vice versa?

Cont. compass

Homework

(2) Construct a large equilateral triangle in the space below. Then, bisect one of the angles of the triangle.

Exit Ticket	Name	_ Date	_ Per	8.4L

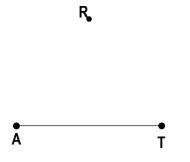
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(1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

Describe how to fold a segment to make a perpendicular bisector. Include all the information about how we know that the segment is bisected by the crease and how we know that the segment is perpendicular to the crease.

DO NOW	Name	_ Date	Per	8.4L
(1) Use your	notes to sketch and describe			
(a) p	perpendicular lines	(b)	bisector	

(2) Is point R equidistant from both A and T? Justify and explain your conclusion. (hint: What tools might you use?)



(3) Describe why the cartoon below is supposed to make people smile. REALLY think about it.

