

Name \_\_\_\_\_ Per \_\_\_\_\_

LO: I can use given relationships to draw valid conclusions. I can draw diagrams based on given information that help me to draw valid conclusions.

**DO NOW** On the back of this packet

(1) **Notes Pages N13, N14, N15, N16**

Cut, arrange, check, and glue descriptions for notes pages N13 and N14.

(2) **Congruence: How can we get congruent segments (sides)? angles?**

transparencies, dry erase markers, eraser, compass, straightedge

For each statement below,

(1) Draw and label a diagram

(2) Write down what you know based on the statement and the diagram

<input type="checkbox"/> (A) I know that . . .	because . . .
N is the midpoint of $\overline{AD}$	It is given

<input type="checkbox"/> (B) I know that . . .	because . . .
$\overline{UV}$ bisects $\overline{IR}$ at L	It is given

<input type="checkbox"/> (C) I know that . . .	because . . .
$\overline{GH}$ bisects $\angle THE$	It is given

(3) **Congruence: How can we get congruent sides? Angles?**

cont.

For each statement below,

- (1) Draw and label a diagram
- (2) Write down what you know based on the statement and the diagram

<input type="checkbox"/> (A) I know that . . .	because . . .
$\overline{TO} \perp \overline{KE}$ at N	It is given

<input type="checkbox"/> (B) I know that . . .	because . . .
$\angle ABC \cong \angle CBD$	It is given

<input type="checkbox"/> (C) I know that . . .	because . . .
$\angle XYZ$ and $\angle YZA$ are congruent alternate interior angles	It is given

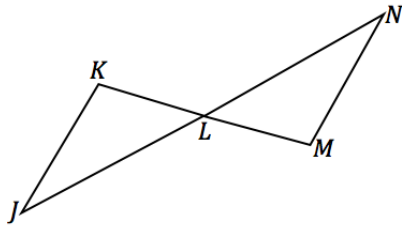
(4) **Congruence: How can we get congruent sides? Angles?**

cont.

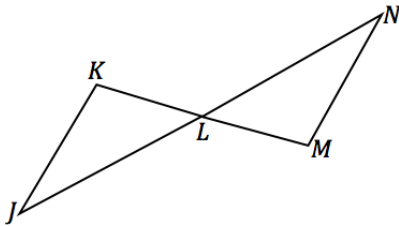
For each statement below,

- (1) Use the given information to mark the diagram
- (2) Write down what you know based on the statement and the diagram

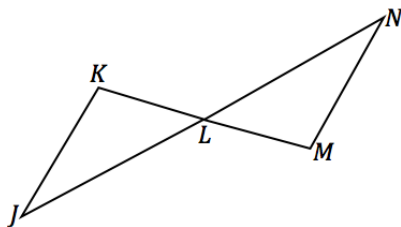
<input type="checkbox"/> (A) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{KM}$ bisects $\overline{JN}$	It is given



<input type="checkbox"/> (B) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{JN}$ bisects $\overline{KM}$	It is given



<input type="checkbox"/> (C) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{KJ} \parallel \overline{NM}$	It is given



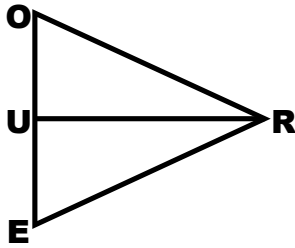
(5) **Congruence: How can we get congruent sides? Angles?**

cont.

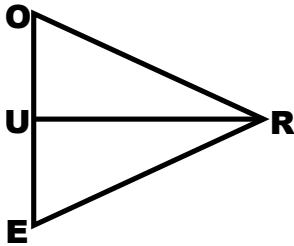
For each statement below,

- (1) Use the given information to mark the diagram
- (2) Write down what you know based on the statement and the diagram

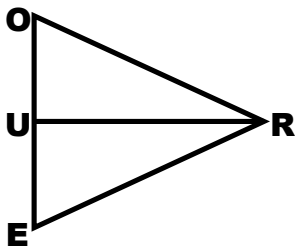
<input type="checkbox"/> (A) I know that . . .	because . . .
$\overline{UR}$ bisects $\angle ORE$	It is given



<input type="checkbox"/> (B) I know that . . .	because . . .
$\overline{UR}$ bisects $\overline{OE}$	It is given



<input type="checkbox"/> (C) I know that . . .	because . . .
$\overline{UR} \perp \overline{OE}$	It is given



(6) **Exit Ticket**

ON THE LAST PAGE

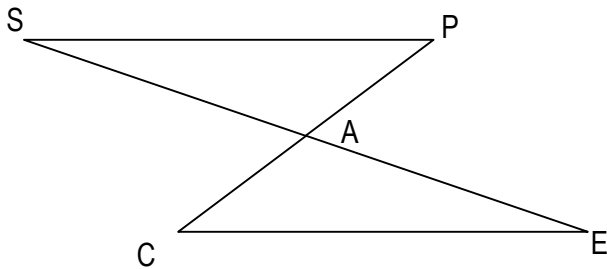
 (7) **Homework**

(1) Construct a  $150^\circ$  angle. (HINT:  $150 = 90 + 60$ , so how do we construct  $90^\circ$ ?  $60^\circ$ ?)

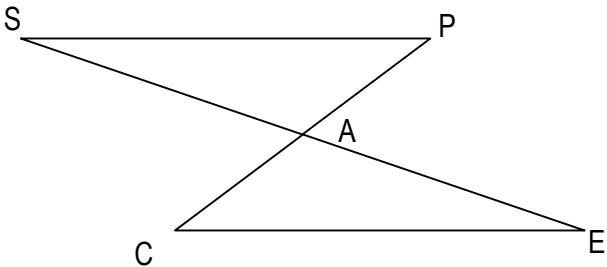
(2) For each statement below,

- (1) Use the given information to mark the diagram
- (2) Write down what you know based on the statement and the diagram

<input type="checkbox"/> (A) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{CP}$ bisects $\overline{SE}$	It is given



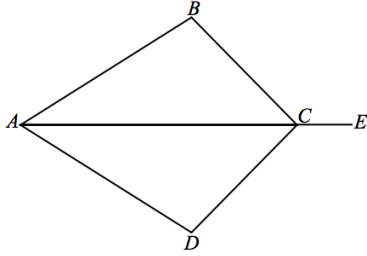
<input type="checkbox"/> (B) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{SE}$ bisects $\overline{PC}$	It is given



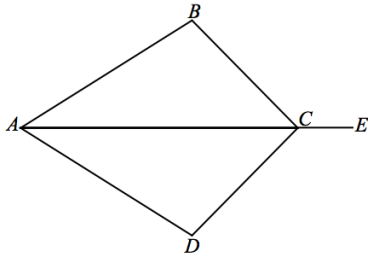
(7) **Homework** For each statement below,  
cont.

- (1) Use the given information to mark the diagram
- (2) Write down what you know based on the statement and the diagram

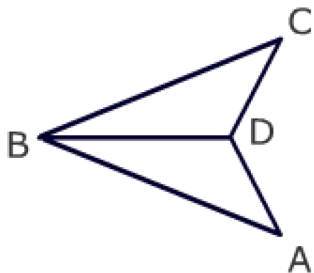
<input type="checkbox"/> (C) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{AE}$ bisects $\angle BAD$	It is given



<input type="checkbox"/> (D) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{AE}$ bisects $\angle BCD$	It is given



<input type="checkbox"/> (E) <b>I know that . . .</b>	<b>because . . .</b>
$\overline{BD}$ bisects $\angle CBA$	It is given

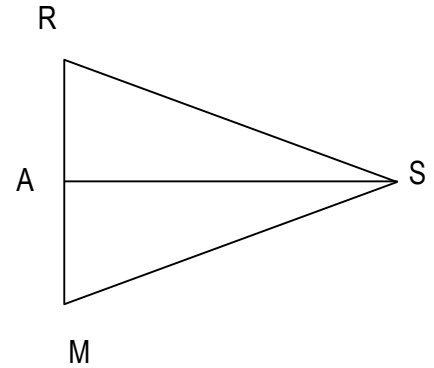


Exit Ticket Name \_\_\_\_\_ Date \_\_\_\_\_ Per \_\_\_\_\_

4.1R

(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 given information to mark the diagram  
 (b) Write down what you know based on the statement and the diagram



I know that . . .	because . . .
$\overline{AS}$ bisects $\angle RSM$	It is given

(1) Define and draw the terms below:

(a) Bisect

(b) Perpendicular

(c) Midpoint

(d) Congruent

(2) Is the point of the second arrow the midpoint of the entire horizontal segment? Describe how you know.

