

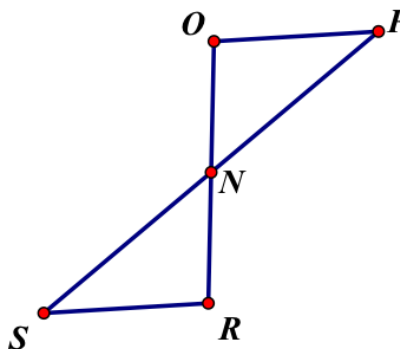
**Geometry – Congruent Triangles**  
**12c Homework: Justifying Triangles are Congruent**

Name \_\_\_\_\_  
 Pd \_\_\_\_\_ Date \_\_\_\_\_

1.

Given:  $\overline{OR}$  and  $\overline{SP}$  bisect each other

Prove:  $\triangle ONP \cong \triangle RNS$

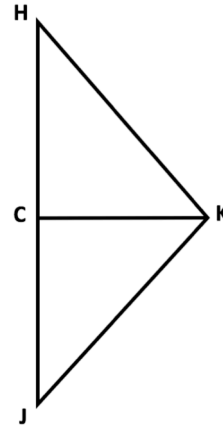


	What were we trying to do? What was our thought process?	What statements can we make that must be true?	How do we know those statements must be true?
<b>Part I</b>	State what must be obviously true based on the given information.	•	<b>Given</b>
<b>Part II</b>	Use what we previously learned (along with the given information) to figure out what else must be true.	• • •	• • •
<b>Part III</b>	Our destination (our goal) was to prove that the two triangles are congruent.	•	Reason: _____  <i>(based on what we stated must be true in Parts I and II, we need to determine why we can say for sure that we reached our destination)</i>

2.

Given:  $\overline{CK}$  is the perpendicular bisector of  $\overline{HJ}$

Prove:  $\overline{KJ} \cong \overline{KH}$



	What were we trying to do? What was our thought process?	What statements can we make that must be true?	How do we know those statements must be true?
<b>Part I</b>	State what must be obviously true based on the given information.		
<b>Part II</b>	Use what we previously learned (along with the given information) to figure out what else must be true.	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>
<b>Part III</b>	Our destination (our goal) was to prove that the two <b>SEGMENTS</b> are congruent.	<ul style="list-style-type: none"> <li>• _____</li> </ul>	Reason: _____  <i>(based on what we stated must be true in Parts I and II, we need to determine why we can say for sure that we reached our destination)</i>