

Warning: Be sure to save a copy of this document to your computer before completing. Otherwise, your work will not save.

Name: _____

Unit 7 Lesson 6: Inequalities in Two Triangles - Sample work

Objective:

To apply inequalities in two triangles

Watch:

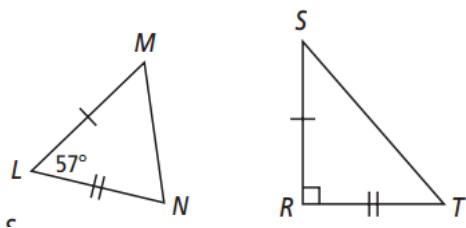
Click here to watch the video lesson about this topic-->

Practice Problems:

Complete the following problems and submit to the Sample Work dropbox in Unit 7 Lesson 6: Triangles Unit Review.

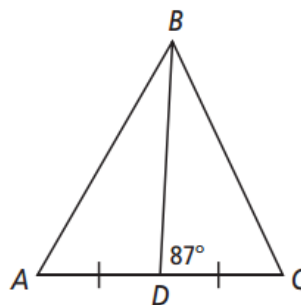
Write an inequality relating the given side lengths. It is possible that there is not enough information to reach a conclusion. Fill in the blank with: $<$, $>$, $=$, or NC (no conclusion).

1.



ST _____ MN

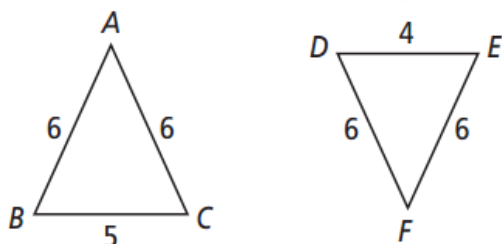
2.



BA _____ BC

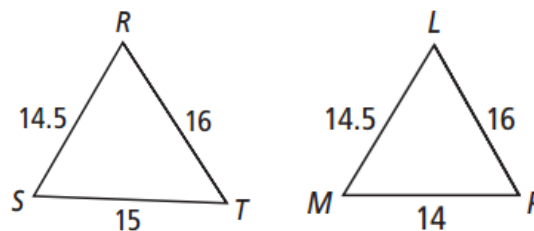
Write an inequality relating the given angle measures. It is possible that there is not enough information to reach a conclusion. Fill in the blank with: $<$, $>$, $=$, or NC (no conclusion).

3.



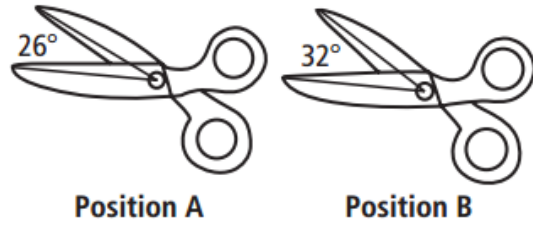
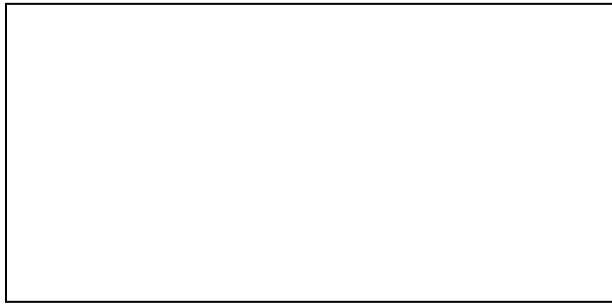
$m\angle A$ _____ $m\angle F$

4.



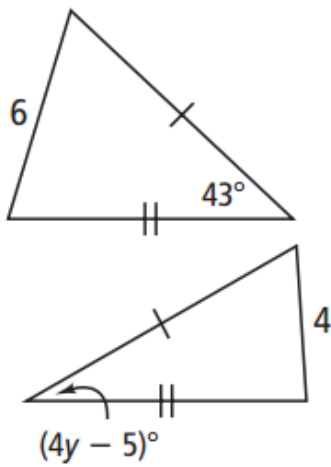
$m\angle L$ _____ $m\angle R$

5. In the diagram at the right, in which position are the tips of the scissors farther apart? Explain your reasoning.



6. Find the range of possible values for the variable.

Show work



Final Answer

_____ y $$ _____