

**Special Interior Angles for Triangles – Activity D**

**Using a Ruler and Protractor create a Triangle and Parallel Line similar to Activity C!  
Label  $\triangle$  Angles as R,S,T like A,B,C and M,N like D,E ! Proceed to complete Blanks below!  
Do not create a duplicate of  $\triangle$  A,B,C just create any triangle, but, big enough to measure!**

Using a Protractor, Verify Sum of Angles \_\_\_\_\_ =  $180^0$ ! Angles \_\_\_\_\_ are Supplementary!  
Using a Protractor, Verify Angles \_\_\_\_\_ are Equal & Verify Angles \_\_\_\_\_ are Equal! **Why?**  
Since Angles \_\_\_\_\_ =  $180^0$ , \_\_\_\_\_ & \_\_\_\_\_ then Sum of Interior Angles of  $\triangle$  \_\_\_\_\_ = \_\_\_\_\_?

The Sum of Angles \_\_\_\_\_ =  $180^0$  Why? \_\_\_\_\_

Angles \_\_\_\_\_ are Equal Angles! Why? \_\_\_\_\_

Angles \_\_\_\_\_ are Equal Angles! Why? \_\_\_\_\_

Therefore Angles \_\_\_\_\_ =  $180^0$  Why? \_\_\_\_\_

The above Statements would be considered a **Deductive Proof!**

Look up **Definition** of a **Deductive Proof** & find another Specific Example!

A Deductive Proof is valid reasoning in **all areas of Mathematics!**