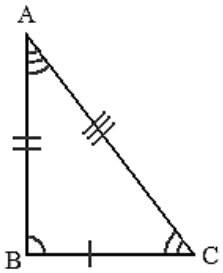
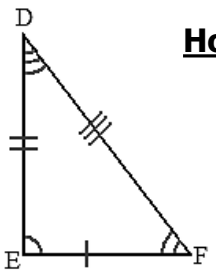
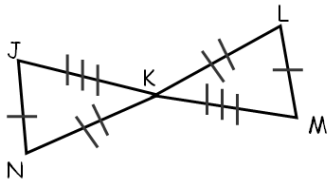
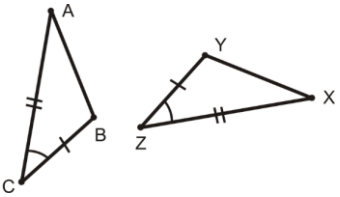
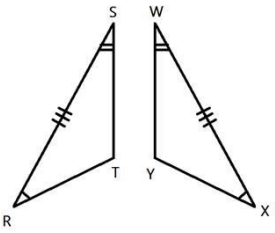
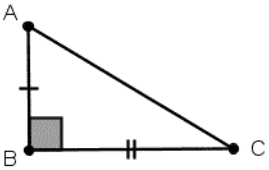
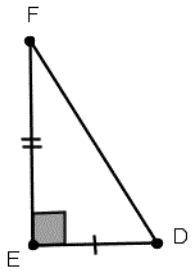
Topic: Congruent Triangles **Date**: _____

Learning Objective(s)_____:

_____

_____

Main Ideas/ Questions	**Notes**
Definitions	**Congruent Triangles** – Two triangles that ALL 3 _____ and _____ are CONGRUENT! **Corresponding Parts** – Parts of congruent triangles that "_____"
Congruence Statement	Must follow the SAME _____!!   **How can we write three different congruency statements?**
Congruence Statement Examples	**Complete the congruence statement**  $\Delta NKJ \cong \Delta$  $\Delta YXZ \cong \Delta$  $\Delta RTS \cong \Delta$
Corresponding Parts with Diagrams	  If $\Delta ABC \cong \Delta DEF$, then… 1) $BC \cong$ _____ 2) $\angle A \cong$ _____ 3) $ED \cong$ _____ 4) $\angle D \cong$ _____
Corresponding Parts with No Diagrams	If $\Delta CAT \cong \Delta DOG$, then… 1) $AC \cong$ _____ 2) $\angle T \cong$ _____ 3) $GO \cong$ _____ 4) $\angle ATC \cong$ _____

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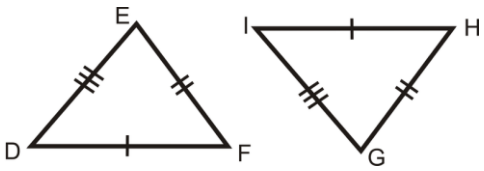
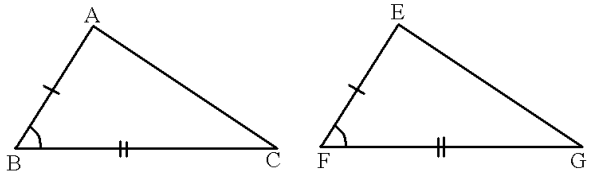
Main Ideas/ Questions

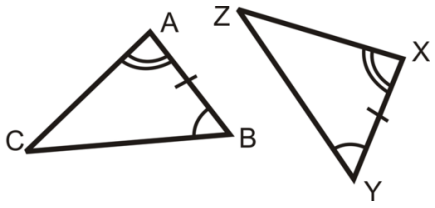
5 Ways to Prove Triangles are Congruent

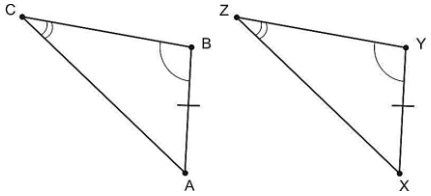
YOU CANNOT SKIP A SIDE **AND** AN ANGLE AT THE SAME TIME!

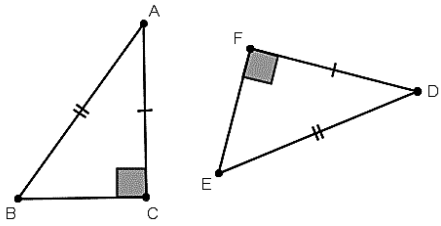
Notes



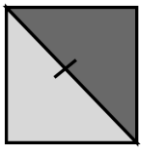








Lookout: Markings You Can Add!



Share a side

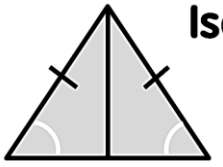
Reason: Reflexive Property

Vertical Angles

Reason: Vertical Angles are congruent

Alternate Interior Angles

Reason: Alt. Int. angles are congruent



Isosceles Triangle

Reason: Opposite congruent sides are congruent angles.

Summary

Summarize the lesson in your own words with the help of the guided questions.

Why is it important to understand corresponding parts and writing congruency statements using congruent triangles?