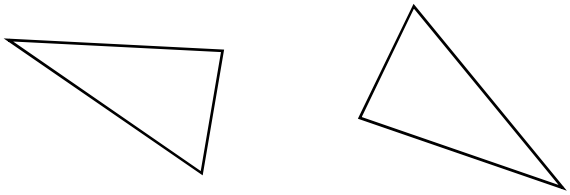
Name: _____ Date: _____

Triangle Congruence

Congruent Triangles

- Congruent triangles have _____ and _____.
- The parts of congruent triangles that "match" are called _____.

In a congruence statement, _____!!!!



_____ ≅ _____

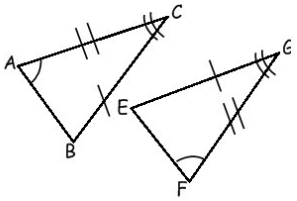
CPCTC: _____

_____ ≅ _____ _____ ≅ _____ _____ ≅ _____

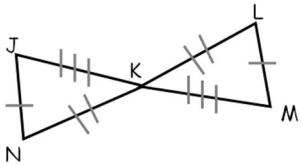
_____ ≅ _____ _____ ≅ _____ _____ ≅ _____

Examples: Complete the congruence statement.

1. ΔBCA ≅ Δ ____
   Δ____ ≅ Δ GFE



2. Δ_____ ≅ Δ JKN



3. If ΔABC ≅ ΔDEF, then ∠C ≅ ___

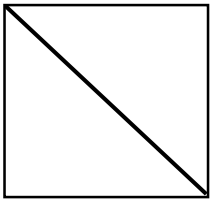
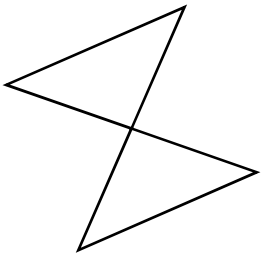
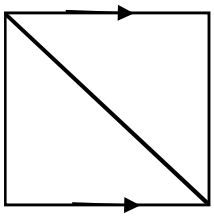
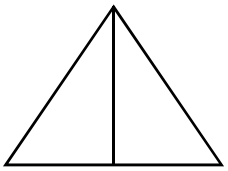
4. If ΔCAT ≅ ΔDOG, then AC ≅ ___

Five Ways to Prove Triangles Are Congruent

_____	_____	_____	_____	_____

What DOESN'T WORK?

Four Markings YOU can add if they aren't already marked:

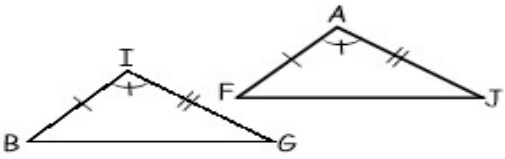
If they share a side, we call it _____.	If you see _____ _____, you can mark them.	Look for _____ _____ _____.	If two triangles make up an _____, then mark _____ and _____.
			

Practice

Determine if each pair of triangles is congruent by *SSS, SAS, ASA, HL, or AAS* and finish the congruence statement. If none of these methods work based on the information given, write "*none*" and write X on the statement blank.

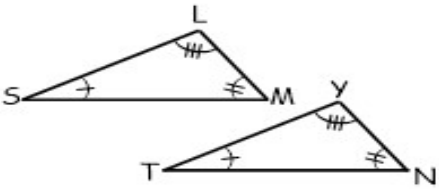
1. _____

$\Delta BIG \cong$ _____



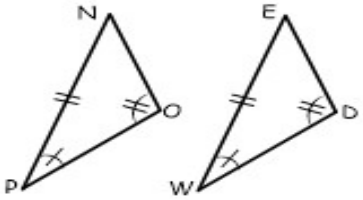
2. _____

$\Delta SML \cong$ _____



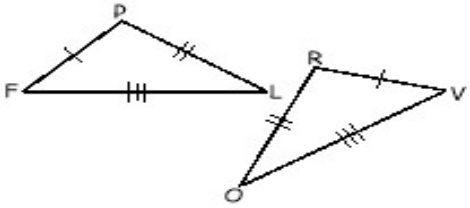
3. _____

$\Delta OPN \cong$ _____



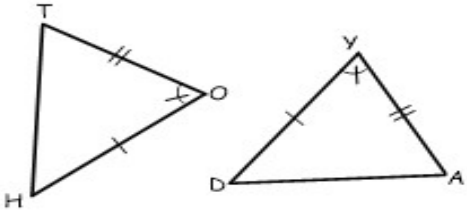
4. _____

$\Delta FLP \cong$ _____



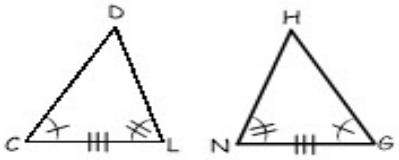
5. _____

$\Delta HOT \cong$ _____



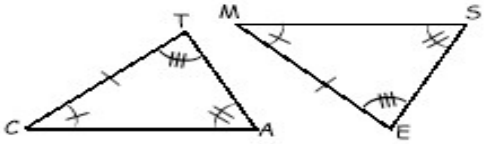
6. _____

$\Delta CLD \cong$ _____



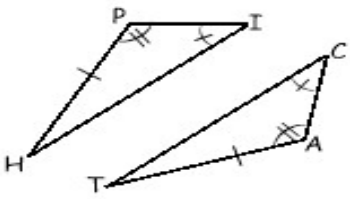
7. _____

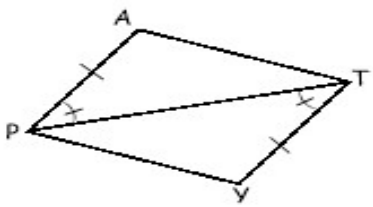
$\Delta CAT \cong$ _____



8. _____

$\Delta HIP \cong$ _____



9. _____

$\Delta PAT \cong$ _____