## Geometry Unit 1 Study Guide

## You will be successful on this test if you can...

$\checkmark$ Use the definition of complementary and supplementary angles, when looking at adjacent angles, to solve for a variable.
$\checkmark$ Use the fact that all angles in a triangle add up to $180^{\circ}$ to solve for a missing angle or variable.
$\checkmark$ Use the exterior angle theorem to solve for a missing angle of variable.
$\checkmark$ Identify and use the angle relationships created by parallel lines and transversals to solve for missing angle measures or variables.
$\checkmark$ Use the properties of Isosceles triangles to solve for missing angles (to include problems that are found on page 17 of your packet).
$\checkmark$ Use the triangle inequality theorem to order sides or angles and can explain your reasoning.
$\checkmark$ Transform a figure using the rules of isometric transformations.

- Translations
- Reflections
- Rotations
$\checkmark$ Identify congruent parts of a triangles given the congruence statement.
$\checkmark$ Identify congruent triangles using one of the five triangle congruence postulates, to include recognizing when there is not enough information provided.
$\checkmark$ Provide reasons for statement listed in a proof or can provide reasons for given statements.

