## Geometry Unit 1 Study Guide

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

- Use the definition of complementary and supplementary angles, when looking at adjacent angles, to solve for a variable.
- ✓ Use the fact that all angles in a triangle add up to 180° to solve for a missing angle or variable.
- Use the exterior angle theorem to solve for a missing angle of variable.
- Identify and use the angle relationships created by parallel lines and transversals to solve for missing angle measures or variables.
- Use the properties of Isosceles triangles to solve for missing angles (to include problems that are found on page 17 of your packet).
- Use the triangle inequality theorem to order sides or angles and can explain your reasoning.
- ✓ Transform a figure using the rules of isometric transformations.
  - o Translations
  - $\circ$  Reflections
  - Rotations
- Identify congruent parts of a triangles given the congruence statement.
- Identify congruent triangles using one of the five triangle congruence postulates, to include recognizing when there is not enough information provided.
- Provide reasons for statement listed in a proof or can provide reasons for given statements.