**Geometry Final Exam Study Guide**

The final exam will consist of questions from Chapter 1 – Chapter 5 and parts of 9 and 13 that were covered. The exam will contain seventy multiple choice style questions. All of the questions are drawn directly from your past tests. The best way to study for the exam is to study your old tests. You will be allowed one 8$\frac{1}{2}$ x 11 in. paper to use during the final exam.

**Some recommendations for things to have on your notecard:**

Proper ways to name: planes, segments, lines, and rays (include proper notation for each)

What is meant by the terms collinear and non-collinear?

What is a midpoint? What does it do to a line/segment?

What do supplementary angles add up to equal? What do complementary angles add up to equal?

The distance formula

The midpoint formula

Area of a rectangle/area of a square/area of a circle/circumference of a circle

How to identify the hypothesis/conclusion in a conditional statement

How to write a conditional, converse, biconditional

The relationship between vertical angles

How to identify the properties of the following angle pairs: corresponding, same side interior, alternate interior, same side exterior, alternate exterior

Triangle exterior angles theorem

The difference between convex/concave polygons

The polygon-angle sum theorem (finding the measures of angles inside a polygon)

What do all the measures of exterior angles of a polygon add up to?

Graphing with slope-intercept/point-slope/standard forms

Properly using SAS, SSS, ASA, AAS, HL Theorems

Properties of isosceles triangles (angles opposite the congruent sides)

Relationship between triangle midsegments and the third side (side it does not touch)

How to find the smallest angle and smallest side in a triangle

Relationship between the sum of two sides of a triangle and the third side

Identify if a movement is an isometry

Know how reflect objects over given lines

Determine basic probabilities given tables

Determine if an event is independent or dependent

Find probabilities of event that are independent, “and”

Find probabilities of mutually exclusive events, “or”

Find compound probabilities, P(A|B) probability of event A occurring given that B already occured

 **It is important to understand that all of the above will not fit on a single sheet of paper. Write down what you think will be helpful to you when you take the final exam.**