The following outline and associated review problems should be used to help prepare for the Semester 1 Final.

Chapter 1 - Inductive Reasoning

1.1 Inductive Reasoning
1.2 Number Patterns
1.3 Picture Patterns
Review Assignment Page 70: 1-8 ALL

Chapter 2 - Tools of Geometry

2.1 Building Blocks of Geometry
2.2 Poolroom Math
2.3 What is a Widget – Writing Definitions
2.4 Defining lines and Angles – Parallel, Perpendicular, Complementary Angles,
2.5 Supplementary Angles, Vertical Angles and Linear Pairs.
2.6 Defining Polygons
2.7 Defining Triangles
2.8 Special Quadrilaterals
2.9 Space Geometry
Review Assignment Pages 127–129: 1-24 ALL, 32-40 ALL, 51

Chapter 4 - Line and Angle Properties

4.1 Angle Relationships – Vertical Angles, Linear Pairs
4.2 Properties of Parallel Lines – Alternate Interior/Exterior, Corresponding Angles
4.3 Midpoint and Slope
4.4 Slope of Parallel and Perpendicular Lines
4.5 Slope-Intercept Form of a Line
Review Assignment Pages 217–219: 25-35 ALL

Chapter 5 - Triangle Properties

5.1 Triangle Sum – Interior Angles Sum to 180 Degrees
5.2 Properties of Isosceles Triangles
5.3 Triangle Inequalities
5.4 SSS and SAS
5.5 ASA and SAA
5.6 Flow-Chart Proofs
5.7 Isosceles Triangle Revisited
Review Assignment Pages 272-275: 1-19 ALL, 23–42, and 48

Chapter 6 - Polygon Properties

6.1 Polygon Sum
6.2 Exterior Angles of a Polygon
6.3 Properties of Kites and Trapezoids
6.4 Properties of Midsegments
6.5 Properties of Parallelograms
6.6 Properties of Special Parallelograms
Review Assignment Pages 319-320: 1-20 ALL, 27-30 ALL

Chapter 7 - Circles

We just finished this chapter - See your completed HW and the recent Chapter Test for review.

Algebra Review

- Graphing lines
- Solving equations
- Solving inequalities
- Slope-intercept form of a line

EXTRA CREDIT (Up to 10 Points on Semester Final):

Complete all Assigned Review Problems. To receive credit you must:

- *All Work High Quality (not rushed and messy)*
- *State the Problem*
- *Show ALL Work - Including Counterexamples for "F" T/F Problems*
- *Hand in by 3:30pm on Wednesday, January 21st*

I am happy to answer any questions and to help you with any problems - you just have to come and ask!

ONE FINAL RECOMMENDATION

*You can use your **notebook** on the test. Make sure all **definitions and conjectures** are up-to-date and can be quickly found. I would also suggest including as many **diagrams and worked problems** as you can - especially in those areas where you have difficulties.*