**Algebra1 Test Study Notes**

**Quiz Date – Friday, 20 August 2010**

Variables

* Write algebraic expressions based on written words
* Write a phrase based on an algebraic expression
* Evaluate an algebraic expression based on variable values

Order of Operations

* PEMDAS
* Parenthesis, Exponents, Multiplication, Division, Addition, Subtraction
* Apply this to numbers and variables

Exponents

* Evaluate expressions with exponents

Real Numbers

* Know the following sets, identify numbers belonging to each set
  + Whole Numbers
  + Natural Numbers
  + Integers
  + Rational Numbers
  + Irrational Numbers

Functions

* Write a function rule given a table of values for input and output
* Identify independent and dependent variables
* Determine the domain and the range

Scatter Plots

* Create a scatter plot given a set of data
* Interpret data based on a given scatter plot
* Determine the correlation of a given scatter plot – positive, negative or none

Data Plots – (Dot Plots)

* Create a data plot from a set of data
* Interpret data based on a given data plot

Stem and Leaf Plot

* Create a stem and leaf plot from a set of data
* Interpret data based on a given stem and leaf plot
* All stem and leaf plots must have a key

Box and Whisker Plots

* Create a box and whisker plot from a set of data
* Interpret data based on a given box and whisker plot

Measures of Central Tendency

* Mean – The average of the data
* Median – The middle data point, if there is an even number of data points, the middle two are averaged
* Mode – The data value that occurs most often

This is an eight question, 80 point test.