Unit 7: Probability and Statistics

1) Probability

Skills:

a) Be able to create a sample space

b) Be able to calculate the probability of an event

c) Be able to write and read things in probability notation (single event, and, or, union,

d) Be able to work with “and” vs “or” situations

e) Be able to complete and use a two way table to find probabilities

f) Be able to complete and use Venn diagrams to find probabilities

g) Be able to calculate, write and read conditional probabilities given information in any form

Suggested Practice:

a) Any old assignments that were passed back or old assessments

2) Graph Sense

Skills:

a) Be able to identify the labels of a graph

b) Be able to interpret a graph and explain the information provided

c) Be able to write the domain and range

d) Be able to answer ACT science questions based on graphs

e) Be able to compare and contrast two different graphs based on the information provided

Suggested Practice:

a) Any Turner’s Graph of the week (google it) and answer those questions

b) Google ACT science practice test and to those

Unit 1: Equations, Inequalities and Functions

1) Equations

Skills:

a) Be able to write the equation based on a situation

b) Be able to graph a linear equation

c) Be able to interpret slope in the context of a problem

d) Be able to solve for any variable in a linear equation or with variables on both sides

e) Be able to interpret the solutions to a system of equations – no sol, one sol, infinite solutions

f) Be able to solve a system of equations by graphing, substitution and elimination

Suggested Practice:

a) pg. 15 - 16 #1 – 21

b) pg. 27 #1 – 28

c) pg. 53 #1 - 12

2) Inequalities

Skills:

a) Be able to write the inequality based on a situation

b) Be able to graph an inequality and shade the appropriate region

c) Be able to solve an inequality

e) Be able to identify a solution to a system of inequalities

f) Be able to solve a system of inequalities by graphing

Suggested Practice:

a) pg. 15 - 16 #1 – 21

b) pg. 27 #1 – 28

3) Functions

Skills:

a) Be able evaluate a piece wise function from an equation or a graph

b) Be able to graph a piece wise function

c) Be able to find the composition of functions

e) Be able to add, subtract and multiply functions

Suggested Practice:

a) pg. 71 #1 – 9

b) pg. 87 – 88 #1 - 35

Unit 2: Quadratic Functions

1) Quadratic Functions

Skills:

a) Be able to factor a trinomial into two binomials, GCF, Difference of two squares

b) Be able to determine when a method for solving a quadratics is most appropriate

c) Be able to solve quadratics by undoing, factoring or the quadratic equation

d) Be able to describe key features of a quadratic graph

e) Be able to graph a quadratic equation

f) Be able to find the vertex given any form of a quadratic equation

g) Be able to write any quadratic into standard form

Suggested Practice:

a) pg. 119 – 120 #1 - 21