Populations

Part 1

Seeds of Change

Assumption #1 – All the seeds from a fruit survive, become adults and make their own fruits
Assumption #2 – The fruit you have represents the last fruit of its kind on Earth
Assumption #3 – All plants will die at the end of each year
Assumption #4 – Each plant needs a square of land 1 meter long by 1 meter wide ($1m^2$) to grow
Assumption #5 – Each plant makes the same number of fruits per year

One green pepper plant makes 8 green pepper
One tomato plant will make 13 tomatoes
One pomegranate tree will make 50 pomegranates
One apple tree will make 850 apples

Fruit _____

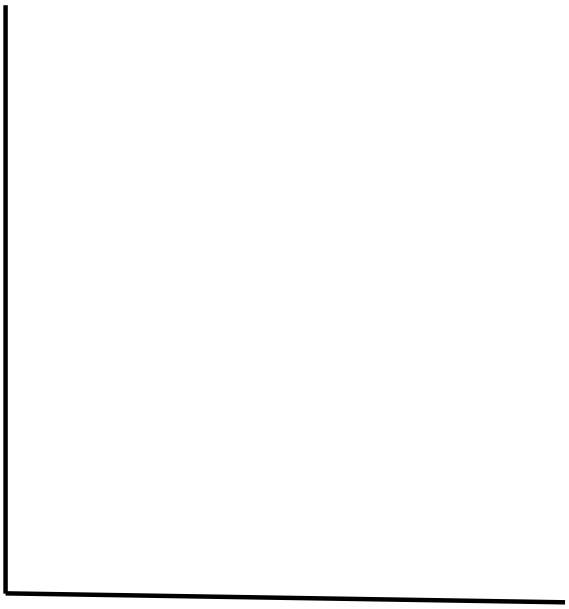
Row	Calculation	Generation							
		0	1	2	3	4	5	6	7
#1	# plants								
#2	# of fruits/plant (this number will be the same each time)								
#3	Total # of fruits in this generation (=row 2 x row 1)								
#4	# of seeds/fruit (this number will be the same each time)								
#5	Total # of seeds in this generation (=row 4 x row 3)								
#6	If all survive, how many will make it to the next generation? (place this value in row 1 for the next generation)								

Big Idea #1:

Part 2 Property _____

Specimen #	Measurement	Bin	# in Bin

Histogram



Big Idea #2:

Part 3

Population	Number of Individuals			
	Bean color #1 Color _____	Bean color #2 Color _____	Bean color #3 Color _____	Bean color #4 Color _____
1st Generation Starting	25	25	25	25
First Generation Surviving				
# of offspring to add before the next hunt *(beans left alive x 3)*				
2nd Generation Starting *(beans left alive + offspring added)*				
2nd Generation Surviving				
# of offspring to add before next hunt (check above)				
3rd Generation Starting (check above)				

Big Idea #3: