Algebra II

<u>Section 12.1 - Probability Distribution</u>

<u>Obj:</u> -To make a probability distribution

1. Make a frequency table for the results of a quiz: 5, 7, 9, 10,10, 7, 8, 8, 7, 10, 9, 9, 6, 7, 7.

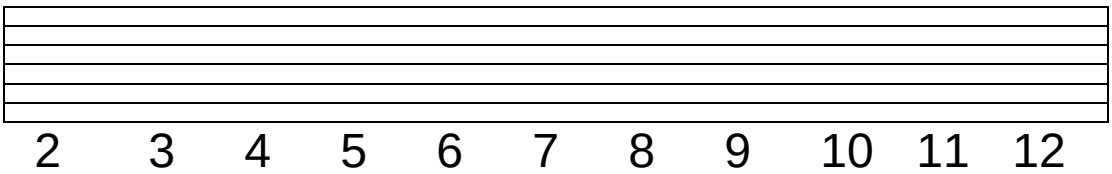
Score	Frequency

2. Two dice are rolled. Write out the sample space. Make a probability distribution for the sum of the dice.

<u>Sample space</u> (possible results)

Sum	2	3	4	5	6	7	8	9	10	11	12
Frequency											
Probability											

<u>Probability distribution:</u>

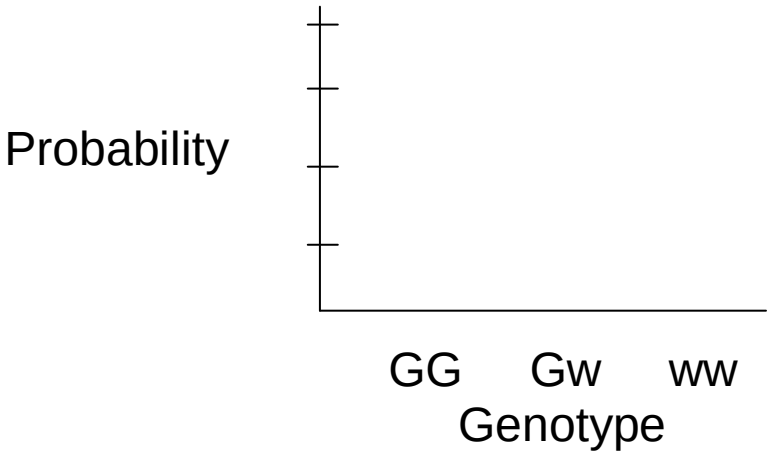


3. Graph the probability distribution.
Green is the dominant gene. White is the recessive gene.

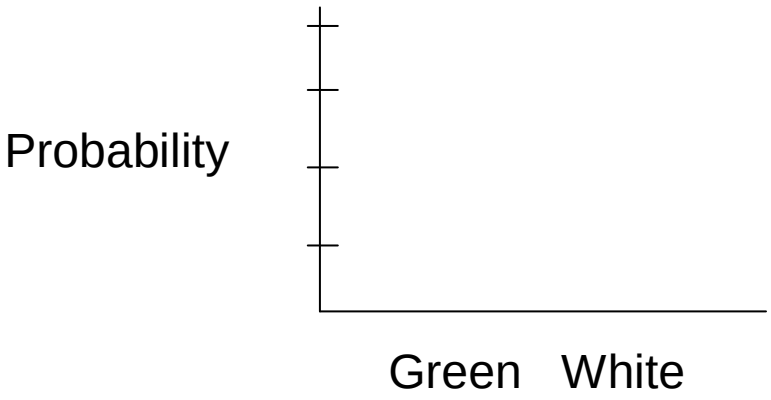
		Parent Plant	
		Green – G	White - w
Parent Plant	Green – G		
	White - w		

GG - dominant gene (green plant)
Gw - hybrid gene (green plant)
ww - recessive gene (white plant)

a) probability distribution for Genotype



b) probability distribution for color



Sample space for 2 dice (numbered 1 through 6)

1 1	2 1	3 1	4 1	5 1	6 1
1 2	2 2	3 2	4 2	5 2	6 2
1 3	2 3	3 3	4 3	5 3	6 3
1 4	2 4	3 4	4 4	5 4	6 4
1 5	2 5	3 5	4 5	5 5	6 5
1 6	2 6	3 6	4 6	5 6	6 6