Carnival Game Tycoon Lecture Notes: Lesson 2 Name:_____ Delta College STEM Explorer Hour:_____

I. Theoretical Probability vs. Experimental Probability

A.	Probability: a mathematical calculation of the						
7	of a chance experiment.						
		i.	1. Ex.	There is a	or	chance of	f a couple having a
			as opi	oosed to a			<u> </u>
		ii.	2. Ex.	There is a	or	chance of	f me picking the correct # from 1
			to 10.			-	
В.				Probability: †	the	res	ults of a chance experiment
	when put into practice.						
		i.	1. Ex.	A couple has	sgirls, a	nd only	_boy.
		ii.	2. Ex.	It takes me o	only trie	es to pick th	າe correct number from 1-10.
•	Coin F	lip Act	ivity #2				
C.	Expectations vs.						
	. 1.	. It is expected that a flipped coin coming up heads should have a theoretical					
		probability of or					
	2.	The results of our first 4 flips was or .					
	3.	. The results of our 60 flips was or .					
	4.	. As the number of trials increases the					
		gets closer to the					
				0			
II. Usi	ng Proba	ability	Trees to	o Predict Out	comes		
А.	Probability Tree: A representation of the pathways to possible						
	outcomes.						
	1.	1. What are the chances of rolling H, H? or					
	2.	Н, Т	?	_or			
	3.	Н,Н	,H,H? _	or	_		
	4.	Н,Т,	H,T? _	or	_		
В.	To calculate probabilities ofevents using a probability tree, the						
	fractions are						
	1.	1. ex. 20 Heads in a row: ½ x ½ x ½(20) = or					