Name:		Unit &: Probabi	ility & Statist	ics	47
Date:	** This is a 2-page do		Tree Diagrai The Countin		
Draw a tree diagram, then	list the sample space and	d determine the n	number of ou	tcomes.	
1. A t-shirt company sells s		, M, L and XL) th			,
Sample Space:				# of Outcome	es
2. The spinner below is spu	on and a letter from the	word MATH is ch	iosen.		
Sample Space:				# of Outcom	es
3. A coin is flipped and a	digit from 1 – 9 is chosen	at random.			
Sample Space:				# of Outcom	es

A letter is chosen at random from the word CAR and the spinner below is spun.					
Sample Space:	# of Outcomes				
Use the counting principle to find the total number of outcomes.					
5. How many options does Ana have if she can choose from 4 different types of lettuce and 9 different dressings?					
6. A twelve sectioned spinner is spun once, then a standard die is rolled. Find the total number of outcomes.					
7. How many different kitchen islands can be made from 7 cabinet choices and 6 different countertops?					
8. Heather is ordering invitations and can choose from 5 different types of paper and 9 different fonts. Find the total number of invitations she could make.					
9. Nick is designing a toy car. He is picking between 8 different car models and 10 colors. Find the total number of cars he could design.					
10. Six different people each brought four dishes to a gathering. Find the total number of dishes.					
11. Marissa is pouring drinks at a birthday party. She has three different sizes of cups and seven different flavors of juice. How many different cups of juice can she pour?					
12. A coin is flipped and a letter from the word COMPUTER is chosen. How many outcomes are there?					
13. A child from a class of 28 students is chosen to pick one of five prizes. How many outcomes are there?					