Name:	Period:
	Worksheet 9-1 Fundamental Counting Principle & Probability Unit 9
1.	A school team sells caps in two colors (blue or white), two sizes (child or adult), and two fabrics (cotton or polyester). Draw a tree diagram to help find the number of cap choices.
	Blue
	White
2.	You can buy a burrito made from a flour tortilla or a corn tortilla. You have a choice of three fillings: beef, chicken, or beans. You can also choose medium salsa or hot salsa on top. Draw a tree diagram to find all possible combinations.

3. Julie has finally narrowed her clothing choices for the big party down to 3 skirts, 2 tops, and 4 pairs of

shoes. How many different outfits could she form from these choices?

4. Utah license plates have 3 numbers followed b can be issued in Utah?	by 3 letters. How many different license plates of this type	
How many different 7-digit telephone numbers can be assigned if the first digit <u>cannot</u> be either a "1" or a "0" and the numbers can't be repeated?		
Find each probability for one roll of a die. Write yo	our answer as a simplified fraction.	
6. P(5)	8. P(not 1, 3, 4, or 5)	
7. P(7)	9. P(2 or 4)	
You have a bag of 24 colored cubes: 12 red, 4 blue, randomly pulling the given color out of a bag. Writ		
10. P(green)	14. P(orange)	
11. P(red or yellow)	15. P(red, blue, or yellow)	
12. P(blue)	16. P(not green or blue)	
13. P(not blue)		
You have 10 candy bars. Four are Twix, three are I Way. You let your friend pick a candy bar. Find th bar. Write your answer as a reduced fraction and a	ne probability of randomly pulling out the given candy	
17. P(Snickers)	21. P(complement of Butterfinger)	
18. P(complement of Milky Way)	22. P(Butterfinger, Snickers, or Milky Way)	
19. P(Twix)	23. P(Milky Way or Twix)	
20. P(Twix or Milky Way)	24. P(Twix) + P(complement of Twix)	