Secondary Math II 9-1 Fundamental Co	ounting Principle					
Part 1: Probability A bag contains 3 w for one draw:		rds, and 5 red	cards. Find	d the probability of each o	event	
1. A white card	2. A black car	2. A black card		3. A red card		
Calculate the prob	ability of each event fo	or one roll of a	6 sided di	e:		
4. A one	5. A four	6. An even nu	ımber	7. An odd number		
	9. A number nan or equal to 3			O. A number greater than 6 an or equal to 5		
	tal Counting Principle ber of license plates po					
13. 2 letters followe	d by 3 digits		14. 3 lette	ers followed by 4 digits		
15. A letter followed	5. A letter followed by 3 digits followed by 2 letters		16. Six digits			
17. 2 letters followed by 4 digits		18. 4 letters followed by 2 digits				
19. A letter followed by 4 digits followed by a letter			20. Five letters			

Draw a tree diagram for the following situations, and find the total possible number of outcomes:

- 21. The Pie Pizzeria offers a special price on a 2-topping pizza. You can choose 1 topping from each of the following groups:
- A) provolone cheese or extra mozzarella cheese
- B) pepperoni, sausage, or Canadian bacon

22. A student wants to get involved in one of each extracurricular activity:

Sports: track, football, volleyball

Arts: choir, band

Academic Clubs: science, math

23. A retired person wants to get involved in one of each type of leisure activity: Indoor: reading, watching television, playing board games

Outdoor: biking, gardening, hiking

Answer Key

- 1. $\frac{3}{10}$
- 3. $\frac{1}{2}$
- 5. $\frac{1}{6}$
- 7. $\frac{1}{2}$
- 9. $\frac{1}{2}$
- 11. $\frac{1}{2}$
- 13. 676,000
- 15. 17,576,000
- 17. 6,760,000
- 19. 6,760,000
- 21. 6 outcomes
- 23. 9 outcomes