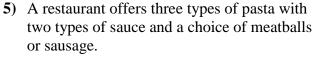
NAME:	Period: SCORE:/=_	%=			
	HW 9-3				
Tree Diagrams &					
Int 1	Fundamental Counting Principle	Unit 9			

Draw a tree diagram to show all possible outcomes for each situation. State the total number of possible outcomes.

1) The spinner below is spun 2 times.





Total # of Outcomes:_____

2) Two dice are rolled

Total # of Outcomes:_____

6) Andrew has a choice of blue, yellow, white or striped shirt with a choice of black, navy, or tan pants.

Total # of Outcomes:_____

3) Choosing a bagel with one type of cream cheese from the list shown in the table.

Bagels	Cream Cheese	
Plain	Plain	
Blueberry	Chive	
	Sun-dried	
Raisin	Tomato	
Garlic		

Total # of Outcomes:_____

4) A sandwich consisting of one type of meat and one type of bread

Meat	Bread	
Ham	Rye	
Turkey	Sourdough	
	White	

Total # of Outcomes:_____

 Tossing a coin and spinning the spinner below



Total # of Outcomes:_____

8) Choosing a purple, green, black, or silver bike having 10, 18, 21, or 24 speeds.

Use the Fundamental Counting Principle to find the total number of possible outcomes for each situation. You DO NOT need to draw a tree diagram.

- 9) A coin is tossed and a die is rolled
- 10) Four coins are tossed
- **11**) A number from 1-50 and a color from 8 colors are chosen
- **12)** Picking a number from 1 to 5 and choosing the color red, white or blue.
- **13**) Choosing a letter from the word SPACE and choosing a consonant from the word MATH.

14) Each spinner is spun once.



15) School sweatshirts come in four sizes and four colors

17) A car comes with two or four doors, a four or six-cylinder engine and a choice of 6 colors.

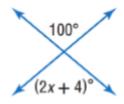
16) Two coins are tossed and a die is rolled

- 18) A quiz has 5 true or false questions.
- **19)** There are 4 answer choices for each of five multiple-choice questions on a quiz.
- **20**) Number of different sandwich and side combos you can have using the table below.

Sandwiches	Sides	
Ham	Pasta Salad	
Turkey	Fruit Cups	
	Potato	
Roast Beef	Chips	
Tuna Salad	Side Salads	
Vegetarian		

- 21) Picking a month of the year and a day of the week.
- **22**) Choosing from a comedy, horror, or action movie each shown in four different theaters.

For problems 23 and 24, set up an equation and solve for x. 23) 24)



-	(15 <i>x</i>)°	
	\sim	15°