N.I.		
Name:		
Maillo.		

Period

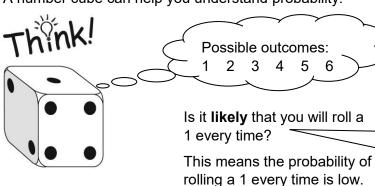


Alternative Packet: Theoretical Probability

Week 5: 4/27-5/1

Problem 1

A number cube can help you understand probability.



No. The cube has 6 sides. Only one side is a 1. It is **unlikely** that I will roll a 1 every time.

Problem 2

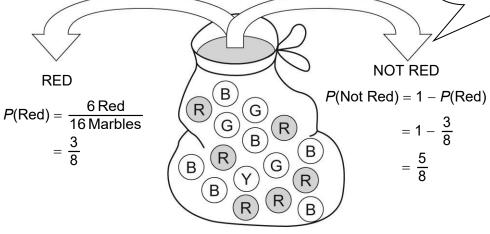
There are 16 marbles in a bag.

To find the probability of **not** drawing a red marble, first find the probability of drawing a red marble.

 $R = Red \hspace{0.5cm} G = Green \hspace{0.5cm} B = Blue$

P(Red) means "the probability of drawing a red marble."

P(Not Red) means "the probability of drawing any marble that is NOT red."



- 1. In Problem 1, is it more likely, less likely, or as likely as not to roll an even number? Why?
- 2. In Problem 2, how likely is it that you will select a purple marble? Why?

Name:		Period
LESSON	Alternative Packet: Theoretical Probability	

LESSON	
12-1	

Week 5: 4/27-5/1

Creating a table can help you solve probability problems.

You are to choose one of the cards at right without looking.

Consider the probability of three outcomes: 1) choosing a vowel, 2) choosing a B, or 3) choosing a letter in the word *MATH*.

М	Α	Т	Н
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Complete the table by writing whether each of the desired outcomes is *impossible*, *unlikely*, *as likely* as *not*, *likely*, or *certain*.

	Desired Outcomes		
Possible Outcomes	Vowel	В	Letter in MATH
М	no	no	yes
Α	yes	no	yes
Т	no	no	yes
Н	no	no	yes
Results	1 out of 4	0 out of 4	4 out of 4
Probability	1	2	3

4. You spin the spinner at the right. Complete the table. Tell whether each of the desired outcomes is *impossible*, *unlikely*, *as likely as not*, *likely*, or *certain*.



	Desired Outcomes		
Possible Outcomes	6	Factor of 4	Greater than 0
Results	out of	out of	out of
Probability			

	SON Alternative Packet: Theor	otical Probabil	itv	
12		elicai Piobabii	ity	
	Week 5. 4/27-5/1			
Mat	ch each event to its likelihood. The first or	ne is done for you.		
1.	rolling a number less than 6 on a number			
	cube labeled 1 through 6	A	A. likely	
2.	flipping a coin and getting heads		B. unlikely	
3.	spinning a number less than 3 on a spinner with 8 equal sections marked 1 through 8		C. as likely as no	
4	,		·	
4.	drawing a red or blue marble from a bag of red marbles and blue marbles		D. impossible	
5.	rolling a number greater than 6 on a number			
	cube labeled 1 through 6		E. certain	
	ve. Write your answer in simplest form. The	e first one is done for		
you		log and 2 vallow		
0.	A bag contains 4 red marbles, 3 green marbles	•		
	marbles. The probability of randomly picking	3	7	
	What is the probability of not picking a yellow	/ marble?	9	
7.	A number cube is labeled 1 through 6. The p	robability of randomly		
	rolling a 5 is $\frac{1}{6}$. What is the probability of no	t rolling a 5?		
	whether the event is impossible, unlikely	-	ly,	
	ertain. Explain your choice. The first one i	•		
δ.	Tyrone rides his bicycle to school if he gets ugets up by 7:15 about half the time. Estimate Tyrone will ride his bicycle to school.			
	as likely as not; Since he gets up by 7:15	about half the time, I	ne will ride his	
	bicycle about half the time. The probabili	ty is about $\frac{1}{2}$, or as I	ikely as not.	
9.	There are 10 shirts in a drawer. Eight of the shirts have short sleeves. Two shirts have long sleeves. Estimate the probability that you get a			
	hort-sleeved shirt if you select one out without looking.			
	·	-		

Nar	me:	Period
LES	Alternative Packet: Theoretical Probability	
12	Week 5: 4/27-5/1	
Fin	d each probability. Write your answer in simplest form.	
	Picking a blue shirt from a drawer with 8 blue shirts and 2 white shirts	
2.	Drawing a vowel from letter tiles that spell out MATHEMATICS	
3.	A spinner is divided into 8 equal sections: 4 red, 2 white, 1 green, and	
	1 blue. What is the probability that the spinner lands on blue or white?	
	ere are 6 cans of soup in a kitchen cabinet: 2 chicken noodle, omato, and 1 vegetable.	
	You select a can without looking. What is the probability that you will	
	not choose chicken noodle soup?	
5.	What is the probability that you will choose vegetable soup?	
6.	12 more cans were added to the pantry: 4 cans of chicken noodle	
	soup, 5 cans of vegetable soup, and 3 cans of tomato soup. What is the probability of choosing tomato soup?	
7	What is the probability of not choosing tomato soup?	
1.	what is the probability of not oncosing tomato soup!	