## **Unit - Probability**

## Lesson 3 – Video Notes Guide Independent Events

By the end (	of this lesson you will be able to		
What is Pro	bability?		
	What three ways can probabili	ty can be represented?	
	1)	. 2)	3)
	What values represent Certain		
	What values represent As Like	ely As Not?	
	What values represent Imposs	ible?	
What are in	dependent events?		
	How is rolling a die an independ	dent event?	
	How is flipping a coin an indepe	endent event?	
-	Using an Area Model		
Vhat is the	probability that you can roll a _	on a die and flip _	up on a coin?
	Outcomes for the 2 <sup>nd</sup> event		What is the ratio we use for probability?
Outcome	s for		<del></del>
the 1st ev	rent		How many outcomes do the two events have together?
			What is the probability of the events occurring together?
			As a fraction?
			As a decimal?
			As a percent?

Example	2.	I Iaina	AA	<b> _:</b> _	l:	-4:
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What is the probability t	hat you can flip	up on a coin and roll a		
sib?	Outcomes for the 2 <sup>nd</sup> event			
Outcomes for the 1st event				
What is the probability fo	or the first event to occur? _	2 <sup>nd</sup> Event to occur	3	
What operation will you us	se to determine the probabili	ty of these events occurring toge	ther?	
What is the probability fo	or these events to occur toge	ther?		
As a fraction?	As a decimal	? As a perce	ent?	
Example 3: With Replace	ement		233	
What is the probability the card?	nat you can pick a red card pu	t it back in the deck and pick the	black	
What is the probability fo	or the first event to occur? _	2 <sup>nd</sup> Event to occur	?	
What operation will you us	se to determine the probabili	ty of these events occurring toge	ther?	
What is the probability fo	or these events to occur toge	ther?		
As a fraction?	As a decimal	? As a perce	ent?	
Example 4: With Replace	ement			
What is the probability the Clubs?	nat you can pick the Ace of H	earts, put it back in the deck, and	d pick the King of	
What is the probability fo	or the first event to occur? _	2 <sup>nd</sup> Event to occur	?	
What operation will you us	se to determine the probabili	ty of these events occurring toge	ther?	
What is the probability fo	or these events to occur toge	ther?		
As a fraction?	As a decimal	? As a perce	ent?	
Math 7	Unit - Proba	ability		

## Your Turn to Practice. [fill in the missing information for each problem using the video]

Find the probability of the events. Write as a fraction, decimal and a percent. Round to the nearest thousandths when necessary.

1)	Probability of rolling an number on a standard die and flipping a
2)	Probability of choosing two vowels, with replacement, from the word
3)	Probability of picking an number, putting it back, and then picking a multiple of, from the numbers
4)	Probability of rolling a die three times, all coming up numbers.
5)	Probability of picking a red gumball, replace it and then choose a blue gumball, from red and blue gumballs.