Algebra II Outcomes

Name	
Notes: Sample Space: Listing the outcomes of an event. Example: In a bag there are red, blue, and green marbles. List all possible outcomes of picking 3 marbles from the bag. Tree Diagram:	
List:	
Table:	

		work: a) How many different outcomes are possible when having 3 children? b) Make a tree diagram to represent the sample space for having 3 children.
	2.	Make a table to represent the sample space of the <u>sum</u> of two die.
	3.	 a)How many outfits can be created from three shirts, 2 pants, and 2 shoes? b). List/create the sample space for the number of outfits from three shirts (red, green, white),
,	4.	a) How many outcomes are possible when flipping three coins? b) List the sample space for flipping three coins.

Homework

	Homework
1)	Suppose you roll a die then flip a coin.
	a) List the sample space for this situation.
	b) How many outcomes have an even number on the die?
	c) How many outcomes has heads on the coin?
	d) How many outcomes has heads or tails on the coin?
2)	Two dice are thrown, list all the possible outcomes by making a 2-way table.
	number of dots showing on the top of each die is counted, find the number of outcomes using list above.
	a) The sum of the numbers showing is 7.
	b) Both numbers showing are even.
	c) Both numbers showing are the same.
	d) The product of the numbers showing is less than 16.
3)	Make a list of possible outcomes of having 4 children.
	How many outcomes are there?

Algebra II Outcomes

Name _____

Notes:

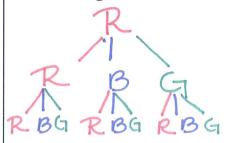
Sample Space: Listing the outcomes of an event.

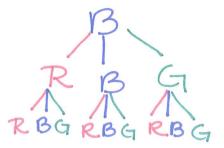
Example:

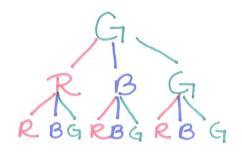
In a bag there are red, blue, and green marbles.

List all possible outcomes of picking 3 marbles from the bag.

Tree Diagram:







List:

RRB RRG RBB RBB Table:

RGB RGG BRR BRG

RGR

GRBG GBBG

GGR GGB GGG

Two-way ~ Pick 2 marbles 1 2nd marble

	R	B	G	
R	RR	R B	RG	
B	BR	BB	BG	
G	GR	GB	GG	

15t marble

	swork: a) How many different outcomes are pos	sible when having 3 children?8
	b) Make a tree diagram to represent the s	sample space for having 3 children. GBB GBB
	BGBG	B G B G G B G G G G G G G G G G G G G G
2.	1 2 3 4 5 6	How many outcomes are there
	56789101	How many outcomes have a sum ≥ 10
3.	a)How many outfits can be created from the 2 shoes?	hree shirts, 2 pants, and
	b). List/create the sample space for the nutwo pants (khaki & blue jeans) and two sh	umber of outfits from three shirts (red, green, white), oes (Nike & Vans).
EK N	, eky, rbn, rby, GKN, G	KV, GBN, GBV, WKN, WKV, WBN, WB'
٠.	a) How many outcomes are possible wheb) List the sample space for flipping three	n flipping three coins?
7. 1.	H + H + T + T + T + T + T + T + T + T +	

Homework

- 1) Suppose you roll a die then flip a coin.
 - a) List the sample space for this situation.

		2	3	4	5	6
++	H1	H2	H 3	HH	H 5	H6
T	+1	十2	十3	T 4	T5	T6

- b) How many outcomes have an even number on the die?
- c) How many outcomes has heads on the coin?
- d) How many outcomes has heads or tails on the coin?

2)	Two dice are thrown, list all the possible outcomes by making a 2-way ṭable.						
			12	13_	4	5	9
		U.D.	1,2.	1,3 .	1,4.	1,5.	(1,6)
	2	2.1.	2,2.	2.3.	(2,4).	(2,5).	2.6.
	3	3.1.	3,2.	3,3).	(3,4).	3,5.	3,6
	L	4,1.	4.2).	4.3).	(4,1)	4,5	(H, G)
	5	5.1.	5.2.	5,3 .	5,4	5.5	5,6
4	10	Ca. D.	(6,2).	6,3	(6,4)	6.5	616

The number of dots showing on the top of each die is counted, find the number of outcomes using your list above.

- a) The sum of the numbers showing is 7.
- b) Both numbers showing are even.
- c) Both numbers showing are the same.
- d) The product of the numbers showing is less than 16. 25
- 3) Make a list of possible outcomes of having 4 children.

