COUNTING METHODS

6th Grade Mathematics

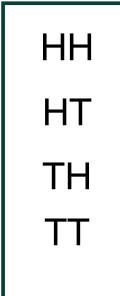
Mr. Wong

- An <u>event</u> is the result, or outcome, of a single experiment
 - Example Tossing a "6" on a number cube.
- Sample Space is the set of all possible outcomes of a single experiment
 - Example The sample space for a number cube would be 1,2,3,4,5, and 6.



Tree Diagram Method

 Use a TREE DIAGRAM to list the possible outcomes of 2 coin flips. Possible
Outcomes
Or
Sample
Space



H
Now you could get...

T
On the first flip you could get....

H
Now you could get....

Multiplication Rule

If...

- X = total number of outcomes for event A
- Y = total number of outcomes for event B
- Then number of outcomes for A followed by B is

x times y

Making a Table:

Flipping a coin and tossing a number cube

Number Cube

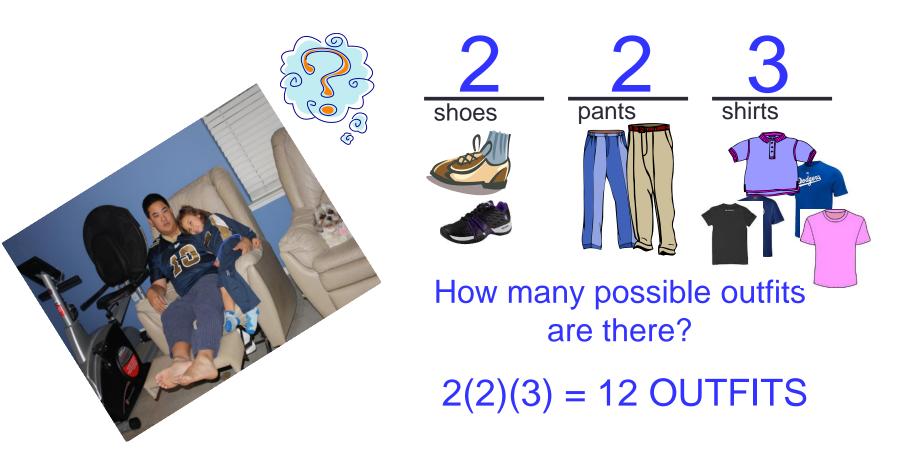
		1	2	3	4	5	6
Coin	I	H1	H2	Н3	H4	H5	H6
	Т	T1	T2	T3	T4	T5	T6

Sample Space:

H1, H2, H3, H4, H5, H6, T1, T2, T3, T4, T5, T6

Multiplication Rule:

Mr. Wong had 3 EVENTS



Make a tree diagram and list all possible outcomes.