

Introduction to:

# PROBABILITY



# Probability

What are the chances of getting a certain outcome from an event?

## Example #1: Flip a Coin

- What are the chances of getting tails when you flip the coin?
- How likely is it that you will get tails?





## Probability Terms

- ✓ Each time you flip the coin is one event, that is 1 time that you do something

## Each time you flip the coin...

- There is an equal chance of getting heads or tails
- There are two possible outcomes , an outcome is what happened



Probability is how likely something is to happen

With coins, unless you are cheating, probability of getting heads is 50%, that is ONE-HALF of the time your coin should land on heads

If the probability is 0, we say  
something is impossible

An IMPOSSIBLE event is one that never happens.

# What is the probability that your coin will land on a flower?

The probability is ZERO.

We do not have flowers, just heads or tails.



# What is the probability that your coin will land on a flower?

The probability is ZERO.

We do not have flowers, just heads or tails.

It is IMPOSSIBLE.

It will happen 0 times that your coin lands on a flower.



If the probability is 100%, we say something is certain.

A CERTAIN event is one that always happens.

# What is the probability that a quarter will land on a side that is silver?

The probability is 100%.

Both sides are silver.

It will always happen that a quarter lands on a silver side.

It is CERTAIN.



Now let's use what you know about  
**PROBABILITY**  
with another example



Not with a coin but with...

# Guinea Pigs!

Ex. #2

PROBABILITY



I have two guinea pigs. Both are girls.

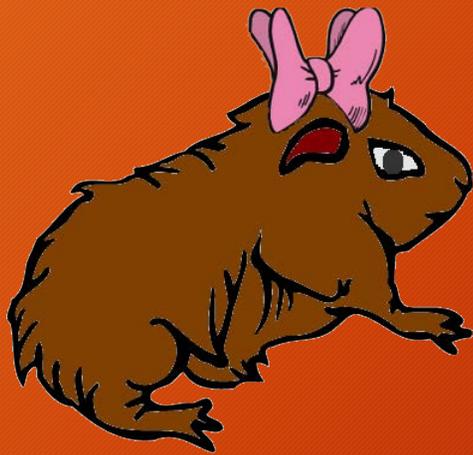
Ex. #2



What is the probability, if I pick up a guinea pig that it would be a female?

?

The probability of getting a female guinea pig is 100%. It will always happen.



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