

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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