## (包 Introduction to Expected Value (EV)

Expected Value (EV): The amount of money a certain play expects to win or lose on the average.

- Based on our equity in a hand, we can use expected value (EV) to determine how much we expect to win or lose in any given poker scenario.
- EV is how much we expect to win or lose on average, over the long run, based upon a specific scenario in poker.
- Some plays will win us money, while others will lose money.
- +EV = A profitable long-term play
- -EV = A unprofitable long-term play


## (田) Long-Term Focus

- Just like equity, EV is concerned with how well a certain play will do over the long-run, and not the outcome of a single hand.
- For example, if we were evaluating the EV of calling a pre-flop all-in with pocket Aces against an opponent that has pocket Queens, we know that this is a long-term profitable play, regardless of whether we lose that hand or not.
- We may get unlucky and lose the hand, but we know that, over the long-run, it's a +EV profitable play.


## （⿴囗十）Why is EV Important？

－Solid poker strategies revolve around making profitable poker plays and decisions，aka，＋EV decisions．
－Fundamental poker math is at the core of maximizing our winnings and minimizing our losses．
－In short，winning poker is＋EV poker，whereas losing poker is－EV poker．
－In poker，we want to strive to make as many long－term profitable plays as possible，and EV will help us do so．

## (甸 How do we use EV?

- We can use EV both on the table while we're playing a hand, and off the table in analyzing previous hands we've played.
- When we're in a hand, we can use our knowledge of poker math to enhance our likelihood of making profitable + EV poker plays.
- By understanding pot odds, implied odds, equity, the Rule of 2 and 4, and other math topics, we maximize the chances that we'll make profitable $+E V$ plays.
- We can also use EV and EV calculations to analyze hands we've played, in order to determine if they were +EV or -EV .
- EV calculations are simple mathematical formulas that help us determine if a particular play is a long-term profitable +EV play, or unprofitable -EV play.
- EV calculations will not only tell us if a play is profitable or not, but will also quantify exactly how profitable or unprofitable it is overall.


## (田) Expected Value (EV) Calculation

- The basic EV calculation is composed of two parts:
- EV= [Part A] - [Part B]
- Part A: How Much You Win x Probability of Winning
- Part B: How Much You Lose x Probability of Losing
- EV= [Expected Long-Term Winnings] - [Expected Long-Term Losses]
- EV = (\% win x \$ win) - (\% lose x \$ lose)

We'll be re-visiting and discussing EV calculations later in the course.

