## (07) The Basic EV Calculation

The basic EV calculation is very simple and is composed of two parts:

EV = [Part A] - [Part B]

- Part A: How often you win $x$ How much you win
- Part B: How often you lose $\boldsymbol{x}$ How much you lose

EV $=$ [Expected Long-Term Winnings] - [Expected Long-Term Loses]

As you can see above, the calculation compares your long-term winnings and long-term losses to determine if a play is profitable or not.

Step 1: Determine how often you will win and how much you will win:

- $80 \%$ of the time you will win $\$ 500=(.80 \times 500)=\$ 400$

Step 2: Determine how often you will lose and how much you will lose:

- $20 \%$ of the time you will lose $\$ 250=(.2 \times 250)=\$ 50$

Step 3: Subtract how much you expect to lose from how much you expect to win:

- $\$ 400-\$ 50=\$ 350+E V$


## （⿴囗十）Example Hand \＃1

Pre－flop，we have J J and villain open－jams all－in with $\$ 80$ effective stack sizes in a $\$ 200$ buy－in game．We estimate that we＇re a $70 \%$ favorite to win and will lose $30 \%$ of the time，based on our opponent＇s estimated open－jamming range．If we call and win，we＇ll win the amount of money that＇s already in the pot before our call，which is $\$ 83$ ，which includes the blinds．However，if we call and lose， we＇ll lose the $\$ 80$ we risked pre－flop by calling villain＇s all－in jam．

EV＝［Part A］－［Part B］
－Part A：How often you win $x$ How much you win
－How much we will win x percentage to win $=(\$ 83 \times .70)=\$ 58.10$
－Part B：How often you lose $x$ How much you lose
－How much we will lose $x$ percentage to lose $=(\$ 80 \times .30)=\$ \mathbf{2 4 . 0 0}$
$\mathrm{EV}=\$ 58.10-\$ 24.00=\$ 34.10$

This is a＋EV play．Each time you make this play，you can expect to profit $\$ 34.10$ on average，over the long run．

## (4) Example Hand \#2

We raise UTG to $\$ 6$ with A A and get called by one opponent. The flop comes K 8 . We bet $\$ 12$ into a $\$ 15$ pot, our opponent raises to $\$ 30$, we re-raise to $\$ 80$, and villain goes all-in for his remaining $\$ 175$ stack. Having our opponent covered, we make the call for an additional \$113 and villain turns over K 9 . The turn card is 9 and the river card is $Q$, causing us to become unlucky and lose a massive pot.

## Determining Win \& Loss Information

Using Equilab, we determine that we expect to win and lose:

- Win: $82.40 \%$
- Lose: $17.60 \%$

Total Pot Size: \$312

- Win Amount: \$312
- Loss Amount: \$113

EV $=(\$ 312 \times .824)-(\$ 113 \times .176)=\$ 237.20$
EV = \$257.09-\$19.89 = \$237.20

