

Law of Large Number

As a game that is based on randomness is played the *Probability of Winning* approaches the *Expected Value*.

Expected Value, when flipping a fair coin, is $\frac{1}{2}$ of the number of plays.

When playing the 6-digit Lotto

Expected Value, when guessing a 6-digit number, is $(1/10)^6 = 0.000001$ of the number of plays. Remember order matters in our game. Which will be very small.

Keep your money.