

Published based on [Progressive Jackpot Odds And Probabilities](#)

Progressive Jackpot Odds And Probabilities

Calculating odds and also probabilities for classic slot device games with 3 reels with 10 symbols on every reel is simplicity itself. You merely multiply the chances of hitting the correct symbol on each reel times the probabilities of striking it on the other 2 reels. The formula looks like this in fact:

$$1/10 \times 1/10 \times 1/10 = 1/1000$$

A brief explanation: if there are ten possible symbols on every reel, then the probabilities of striking one of those ten is 1/10. The probabilities of striking that same symbol on all 3 reels is the product of the chance of hitting it on every reel.

A casino makes its money by having payouts that are certainly not equivalent to the true odds of striking the jackpot. In a case where you have a 1 in 1000 likelihood of hitting a jackpot, if you paid out 999 to one or 998 to one, the difference in the payout versus the actual odds would be your resulting profit.

But progressive jackpots are sometimes tremendous. Occasionally you are able to even discover progressive jackpots of \$1 million or more. To be able to accomplish this, slot device manufacturers had to become programmers, because realistically, a mechanical slot device was limited to 3 or 4 reels with 20 or so symbols on every reel. A mechanical slot machine's reels are actual strips of metal, and getting much more than twenty symbols on every of them made them too large to actually operate the machine.

But with a random number generator program, a casino can setup "virtual reels" with an unlimited quantity of symbols on each. They can also set up multiple reels. Because the odds of striking the jackpot become much smaller, the quantity of the jackpot can become a lot larger.

Here's what the odds of striking the jackpot are on a 3 reel machine with 30 symbols, and for a 5 reel device with thirty symbols:

$$1/30 \times 1/30 \times 1/30 = 1/27,000$$

$$1/30 \times 1/30 \times 1/30 \times 1/30 \times 1/30 = 1/810,000$$

If the odds of striking the jackpot are one in 810,000, you could effortlessly have a payout of \$500,000 or even \$600,000 and also still maintain a solidly profitable slot game.

Because progressive jackpots grow continuously till somebody hits the jackpot, you might theoretically make a constructive expectation wager on a slot machine game, IF the jackpot were large enough. In the above example, if the jackpot were \$810,001, you'd be making a constructive expectation wager.

The problem is that the slot machine producers don't make it that simple. They use algorithms in their random number generator software that set up a percent payout, so it's unknowable to a player what the dollar amount around the jackpot must be to possess a positive expectation wager.

If I only knew the settings for [Cash Splash](#) or Wow Pot (<http://www.wow-pot.com>), perhaps I could wait till the jackpot had been big enough to play, & make positive expectation bets all the time. But on the other hand, just having fun is generally positive expectation enough to suit me.

If you are looking for more information on [National lottery results](#), then I suggest you make your prior research so you will not end up being misinformed, or much worse, scammed.

If you want to know more about la lottery, go here: [la lottery](#)

You can also find this article published on [Progressive Jackpot Odds And Probabilities](#), and on the tag pages [device](#), [expectation](#), [progressive jackpots](#), [random number generator](#), [reel](#), [true odds](#).