PHYS 391 - Day 11
Binomial Distribution

\[ B_{n,p}(\nu) = \frac{n!}{\nu!(n-\nu)!} p^\nu (1 - p)^{(n-\nu)} \]

- n - number of trials
- p - probability of success / trial
- \nu - number of successes
Question

• Find the probability to roll 3 “sixes” on five (6-sided) dice

• Bonus: find the probability to roll three-of-a-kind on five dice (this should be easy)