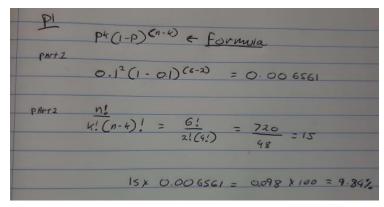
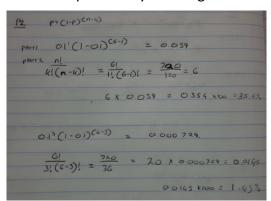
- 1. Suppose you play the game of shooting. You shoot 6 times, each time to a different enemy, and each shot has a 10% chance of success.
- 1) What's the probability of killing two enemies out of six?



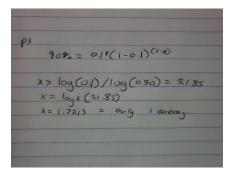
2) What's the probability of killing at most three enemies out of six?



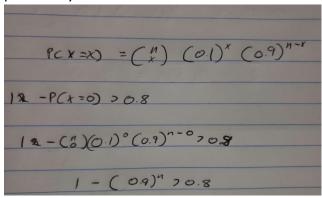
Ans = 9.84 + 35.4 + 1.45 = 46.69%

3) What's the maximum number of enemies we can kill with 90% probability?

Answer: We can kill 1 enemy



2. Suppose there is only one enemy and two success shots can kill the enemy. Each shot has a 10% chance of success. How many times do you need to shoot to kill the enemy with 80% probability?



$$n = log(0.2)$$
 $log(0.9) = 15.27$
Ans = 16