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# Binomial distribution sample problems

A note on the notation! Some common notation for  $\hat{A} \in \hat{a}, \neg \hat{a}$  "Success" that you can see will be (p) to represent the probability of  $\hat{A} \in \hat{a}, \neg \hat{a}$  "successful" and usually (q = 1-p) to represent the probability of  $\hat{A} \in \hat{a}, \neg \hat{a}$  "failure". It is what is used in the text.  $\hat{A} \in \hat{a}, \neg$  "issuccess"  $\hat{A} \in \hat{a}, \neg$  is defined as Whatever the researcher decides ... not just a positive result. The symbol (more) is that this case does not indicate the numeric value 3.14 (p; (or more) = probability of success we use the example from the previous page that studies the number of previous convictions For prisoners in state prison in which there were 500 prisoners. Define  $\hat{A} \in \hat{a}, \neg \hat{a}$  "Success" to be the event that a prisoner has no previous convictions. Find (p) (1-p). Let the success = no profile (0) leaves Bankruptcy = Priors (1, 2, 3 or 4) Looking back to our example, we can find out that: (p = 0.16) (1-p = 1-0.16 = 0.84) verification of (p + (1-P) = 1) A FBI survey shows that about 80% of all property offenses become unresolved. Suppose that in your city 3 these crimes are committed and they are considered independent of one by More. What is the probability that 1 of these crimes is resolved? Firstly, it should be determined if this situation satisfies all four conditions of a binomial experiment; does it satisfy a fixed number of tests? Yes the number of tests is fixed to 3 (n = 3) Do you have only 2 outcomes? Yes (solved and unresolved) do all the tests have the same probability of success? Yes (p = 0.2) are all independent crimes NT? Yes (indicated in the description.) To find the probability that only 1 of the 3 crimes will be solved in the first place we probably that one of the crimes would be solved. With three these events (crimes) there are three sequences in which only one is resolved: solved first, unsolved second, unsolved third = (0.2) (0.8) (0.8) = 0.128 unsolved first, solved second, unsolved third = (0.8) (0.2) (0.8) = 0.128 unsolved first, unsolved second, third solved = (0.8) (0.8) (0.2) = 0.128 we add These 3 probably up to get 0.384. Looking at this from the formula point of view, we have three possible sequences, each of which one resolve and the two unresolved events. Having realized all this takes the following: (3 (0.2) (0.8) ^ 2 = 0.384) The above example and its formula illustrates the motivation behind the binomial formula for probability research Exactly. The binomial formula of a binomial random variable with successful probability, (p), and (n) ... (x) = P (x = x) =  $\frac{n!}{x!(n-x)!} p^x (1-p)^{n-x}$  per (x = 0, 1, 2, A | !, n) A note on the notation! The exclamation point (!) is used in mathematics to represent factorial operations. The factorial of a numerical vehicle to take that number and multiply it for each number that comes before it - up to one (except 0). For example, 3! = 3 to 2 to 1 = 6 Remember !! = 1 Remember 0! = 1 The aforementioned formula is the discreet density, PMF, for binomial. We can graphically represent the odds for a given (n). The following distributions show how the graphs change with a given N and different probabilities. For the example FBI Crime Survey, what is the probability that at least one of the crimes will be solved? Here we are trying to resolve (p (x 1). There are two ways to solve this problem: the long way and short mean. The long way to resolve to (p (x 1). This would be to resolve (x = 1) + P (x = 2) + p (x = 3) as follows: (p (x = 1) =  $\frac{3!}{1!2!} 0.2^1 (0.8)^2 = 0.384$ ) (p (x = 2) =  $\frac{3!}{2!1!} 0.2^2 (0.8)^1 = 0.096$ ) (p (x = 3) =  $\frac{3!}{3!0!} 0.2^3 (0.8)^0 = 0.008$ ) Top all the aforementioned odds and to get 0.488 O ... we can make the shortest road using the complement rule. Here the complement to (p (x 1) is equal to (1 - p (x PBINOM (4, 10, 0.5, Lower.tail = false) E) Cumulative probability of > 4 events = 0.828,125 thousand pbinom (3, 10, 0.5, lower.tail = false) lower.tail = false)

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