## Answer on Question #83133 — Math — Statistics and Probability Question

A binomial probability experiment is conducted with the given parameters. Compute the probability of x successes in the n independent trials of the experiment. n=9 p=0.5 x<3.

## Solution

$$P(x<3) = P(x=0) + P(x=1) + P(x=2) = 1 * p^0 * (1-p)^9 + 9 * p^1 * (1-p)^8 + 36 * p^2 * (1-p)^7 = 0.0898$$
, where  $p = 0.5$ .

**Answer:** 0.0898.