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$$P[ug \text{ it in!} \\ n = 3 \qquad x = 2 \qquad p = .2$$

$$P(x) = \frac{n!}{x!(n-x)!} p^{x} (1-p)^{n-x}, \quad x = 0, 1, 2, ..., n$$

$$P(2) = \frac{3!}{2!1!} (0.2)^{2} (0.8)^{1} = 3(0.04)(0.8) = 0.096$$



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Plug it in!  

$$n = 10$$
  $p = .5$   $x = 0$   
 $P(x) = \frac{n!}{x!(n-x)!} p^{x} (1-p)^{n-x}, \quad x = 0,1,2,...,n$   
 $P(0) = \frac{10!}{0!10!} (0.50)^{0} (0.50)^{10} = 0.001$ 







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WAIT!
I need to make sure it's binomial and identify my n and p.
What is success and what is failure?
Does each trial have the same probability of success? What is it?
Are the trials independent?
What is my n? (How many trials am I doing?)



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CALCULATOR COMMANDS
WOOOHOOOOO! Our favorite part!
2nd VARS (like before) A 0: binompdf (NOT cdfyikes) Type in (n, p, x) binompdf(n,p,x)



1000 employees, 50% Female

None of the 10 employees chosen for management training were female.

N = 10 P = .5 binompdf (10, .5, 0)X = 0 = 00098



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